



Energy Fuels Resources (USA) Inc.
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April 8, 2024

Via Express Delivery

Arizona Department of Environmental Quality
Mail Code 5415B-3
1110 West Washington Street
Phoenix, AZ 85007
(602) 771-4571

RE: Aquifer Protection Permit No. P-100333, LTF 95297, Pinyon Plain Mine – Minor Amendment Application

Dear Sir/Madam:

In accordance with Section 3.0, Compliance Schedule Item 5 of Aquifer Protection Permit No. P-100333 for the Pinyon Plain Mine, Coconino County, Arizona, Energy Fuels Resources (USA) Inc. (“Energy Fuels”) is providing a minor amendment application, which includes a second Ambient Groundwater Monitoring Report, to establish alert levels (“AL”) and aquifer quality limits (“AQL”) for point of compliance (“POC”) monitoring wells POC #4 and POC #1-3 completed in the Redwall-Muav and Coconino aquifers respectively.

Please contact me at 303-389-4132 or sbakken@energyfuels.com if you have any questions or need additional information.

Sincerely,

ENERGY FUELS RESOURCES (USA) INC.

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

Scott A. Bakken
Vice President, Regulatory Affairs

Enc. Aquifer Protection Permit Application Form
Ambient Groundwater Monitoring Report

cc: M. Chalmers, D. Frydenlund, K. Weinel, M. Germansen, T. Chiotti, N. Martin (EFRI)

INSTRUCTIONS

This application is for an Individual Aquifer Protection Permit (APP) including an area-wide APP and Temporary APP, and for a Significant Amendment, Minor Amendment, or an Other Amendment to an Individual APP.

ADEQ recommends scheduling a pre-application meeting to go over the various details of the program and the requirements for a complete application. See “Fee” section below for information on cost associated with the meeting.

During the application process, you are encouraged to communicate with the ADEQ project team to resolve any issues that may arise during the process.

This document is divided into three main parts.

- 1) Instructions (Pages 1 - 4) - The instructions are intended to give you basic information regarding the application process, the permitting fee, definitions, how long the process may take, where to submit the application and how to withdraw an application. More detailed information can be obtained by referencing the specific rule citation listed with each application item. **Please do not submit the instructions with your application.**
- 2) Application - General Information (Pages 5 – 9) – This section includes basic Applicant and facility information; enter the information into the fillable form and indicate where any additional information is provided, if applicable.
- 3) Application - Technical Information (Pages 10 – 14) – This section requires information regarding the facility and specific ways the aquifer will be protected. Many of the items in this section are to be attached to the APP application as attachments or appendices. **ADEQ requests that you organize all the items and attachments using a Table of Contents that references the application form item number and the page number(s) where each item/attachment is located.**

Professional Document Requirements

Please note that, except as exempted by A.R.S. § 32-144.A.7 (employees of mining companies), professional documents, such as reports, plans and specifications, are to be signed by an Arizona registered engineer or geologist (A.R.S. § 32-125). Cost estimates prepared by an engineer, design documents and engineering analysis must be signed and sealed by an Arizona Registered Professional Engineer, and must not include labels such as “Draft”, “Preliminary”, or “Not for Construction” per A.R.S. § 32-101(B)(10 and 11) and 32-125.

Prohibited Agency Actions A.R.S. § 41-1030:

- i. An Agency shall not base a licensing decision in whole or in part on a licensing requirement or condition that is not specifically authorized by statute, rule or state tribal gaming compact. A general grant of authority in statute does not constitute a basis for imposing a licensing requirement or condition unless a rule is made pursuant to that general grant of authority that specifically authorizes the requirement or condition.
- ii. This section may be enforced in a private civil action and relief may be awarded against the state. The court may award reasonable attorney fees, damages and all fees associated with the license application to a party that prevails in an action against the state for a violation of this section.
- iii. A state employee may not intentionally or knowingly violate this section. A violation of this section is cause for disciplinary action or dismissal pursuant to the agency's adopted personnel policy.
- iv. This section does not abrogate the immunity provided by section 12-820.01 or 12-820.02.

Process

Optional: Applicant is encouraged to meet with an ADEQ project team for a pre-application meeting to discuss the project and the requirements for a complete application. This is an optional step, but is **highly recommended**. Request a pre-application meeting by completing the Request Form available at http://static.azdeq.gov/forms/app_preapmtg.pdf and submitting the form at groundwaterpermits@azdeq.gov. If you have questions, call the permit line at 602-771-4999.

- 1) Applicant submits the application as follows:
 - a. Please submit **only an electronic copy** of the application form and all attachments via email. If the application size is large, please upload the application to a file sharing site so that ADEQ can download the application. Contact the ADEQ Project Manager if you would like to obtain a ShareFile link for this purpose.
 - b. Please provide a cover letter that provides a general overview of the project including a brief description of the business or activity, a list of discharging facilities, and a description of any treatment and/or disposal related to the discharging facilities. In the case of an amendment to an existing permit, please also provide a description of the amendment.
 - c. **Please complete all items on the application form. If an item is not applicable write "NA" and provide rationale for why the item is not required. A pre-application meeting is recommended to discuss what will be required for a complete application (see "Optional" process step above).** Failure to complete all items will result in an application that is administratively incomplete (see Step 2 below).
 - d. Please include a Table of Contents for the Technical Information that references the application form item number, and lists Tables, Figures, Drawings, and Appendices.
 - e. Please include Labels/Tabs in the bound application copies that correspond to the application form item number and the Table of Contents.
- 2) ADEQ reviews the application for Administrative Completeness (A.A.C. R18-1-503), and either:
 - a. Issues a letter indicating the application is Administratively Complete and begins Substantive Review, or
 - b. Issues a letter listing required additional information for the application to be determined administratively complete. The Applicant must provide all items on the application form. If an item is not applicable, adequate rationale must be provided. In response to an ADEQ letter requesting additional information,

- i. Applicant provides additional information, or
 - ii. Applicant relies on information already provided. ADEQ may elect to initiate the permit denial process.
- 3) ADEQ conducts the Substantive Review (A.A.C. R18-1-504) of the application for technical content and to ensure that your application contains all required technical information necessary to issue a permit to you.
- a. If the application meets requirements, ADEQ begins drafting the permit.
 - b. If additional information is needed, ADEQ sends a letter requesting the information. In response,
 - i. Applicant provides requested information and ADEQ continues/completes the Substantive Review, or
 - ii. Applicant relies on information already provided. ADEQ may elect to initiate the permit denial process.

Optional: Applicant is encouraged to participate in meetings or conference calls with the ADEQ project team to resolve any issues that may arise during the Substantive Review. This is optional, but highly recommended.

- 4) ADEQ initiates Internal/External review of the draft permit and executive summary.
- 5) ADEQ publishes notice of the 30-day public participation period, only for a new permit or significant amendment. Other amendments do not have a 30-day public participation period.
- 6) ADEQ holds a Public hearing, if needed, only for a new permit or significant amendment. ADEQ responds in writing to all comments received during the comment period.
- 7) ADEQ sends a Decision to Grant the permit.
- 8) ADEQ sends the final bill to the Applicant.
- 9) Applicant pays the bill.
- 10) ADEQ issues and mails the permit.

Fees (A.A.C. R18-14-101 et. seq.)

The permit team assigned to your project will bill at a rate of \$122.00 per hour up to a maximum fee of \$200,000 for a new permit. Maximum fee amounts for permit amendments are provided in the fee rule at A.A.C. R18-14-102.

ADEQ recommends scheduling a pre-application meeting to go over the various details of the program and the requirements for a complete application. The first hour of the pre-application meeting is free for the project manager's time. The other members of the project team (engineer, hydrogeologist, and financial reviewer), will bill for the pre-application meeting time.

ADEQ will provide monthly invoices for the interim permit fees. If full payment is not received within the prescribed timeframe on the invoice, ADEQ will consider the nonpayment as "willful neglect" pursuant to A.R.S. § 49-113(B). As provided by A.R.S. § 49-113(B), ADEQ will, in addition to any applicable interest rate, collect an additional five percent penalty of up to twenty five percent of the amount due for each month or fraction of a month the amount is past due.

ADEQ may also refer this matter to the Office of the Attorney General for appropriate legal action. ADEQ will also cease work on your application and initiate a denial of the pending application at that time.

Definitions

The statutes (A.R.S. 49-201) and rules (A.A.C. R18-9-101) provide the majority of definitions for terms used in the aquifer protection program. The list below is provided for convenience and to clarify terms used in this application form that are not defined elsewhere. Additional statutory and regulatory definitions/requirements are available here: <https://www.azleg.gov/ARStitle/> and <https://azsos.gov/>

Applicant/Permittee: The *person* (see definition of person below) who is applying for the permit is the Applicant; this is the same *person* who will become the Permittee once the permit is issued and **will be responsible** for compliance with the terms and conditions of the permit, rules and statutes, and all financial assurance requirements, monitoring, reporting and contingency requirements, corrective actions and compliance actions as a result of permit violations. **Typically, the company or government entity is the Applicant/Permittee, and will designate an authorized person to sign the certification statement on the application.**

NOTE: The Applicant must be an entity authorized to do business in the State of Arizona. The permit must be issued to either a (1) Corporation (2) Limited Liability Company (3) Partnership [includes Limited Liability Partnership or Limited Liability Limited Partnership] or (4) an Individual or Sole Proprietorship authorized to do business in Arizona. The Applicant should confirm their status as follows prior to submitting an application: Arizona Corporation Commission (for corporations and limited liability companies); Secretary of State (for partnerships, limited partnerships, limited liability partnerships, and limited liability limited partnerships); Requirements in Arizona Revised Statutes Title 41, Chapter 6 Administrative Procedure, Article 7.2 - Licensing Eligibility concerning citizenship and residency (for individuals).

Authorized Agent: The licensing time frame rule provides the option for the Applicant's agent, authorized by the Applicant, to receive all notices issued by the Department under Article 5, Title 18, Chapter 1 (A.A.C. R18-1-503(A)(3)).

Discharging facilities: Defined in A.R.S. §49-241 as: surface impoundments, including holding, storage, settling, treatment or disposal pits, ponds and lagoons; solid waste disposal facilities, injection wells; land treatment facilities; facilities that add a pollutant to a salt dome formation, salt bed formation, drywell or underground cave or mine; mine tailings piles and ponds; mine leaching operations; underground water storage facilities; sewage treatment facilities including on-site wastewater treatment facilities; wetlands designed and constructed to treat municipal and domestic wastewater for underground storage.

Discharge: Defined in A.R.S. §49-201(12): the direct or indirect addition of any pollutant to the waters of the state from a facility. For purposes of the aquifer protection permit program prescribed by article 3 of this chapter, discharge means the addition of a pollutant from a facility either directly to an aquifer or to the land surface or the vadose zone in such a manner that there is a reasonable probability that the pollutant will reach an aquifer.

Person: Defined in A.A.C. R18-9-A101(29): "Person" means an individual, employee, officer, managing body, trust, firm, joint stock company, consortium, public or private corporation, including a government corporation, partnership, association or state, a political subdivision of this state, a commission, the United States government or any federal facility, interstate body or other entity.

A.R.S. § 49-201(26). For the purposes of permitting a sewage treatment facility under Article 2 of this Chapter, person does not include a homeowner’s association.

Licensing Timeframes

Licensing Time Frames (LTF) are specified by Arizona Department of Environmental Quality in A.A.C. R18-1-525, which limits the number of **business days** ADEQ can review your project without a penalty. LTF for an individual permit automatically defaults to an “Individual Permit (no public hearing)”. Likewise, the LTF for a significant amendment automatically defaults to an “Individual Permit Significant Amendment (no public hearing)”. ADEQ may reassign the license time if a public hearing is required or if the application is deemed “complex” in accordance with A.A.C. R18-1- 501(9).

License Type	Administrative Completeness Review (business days)	Substantive Review(business days)	Overall Time Frame(business days)
Individual Permit (no public hearing)	35	186	221
Individual Permit (with public hearing)	35	231	266
Complex Individual Permit (no public hearing)	35	249	284
Complex Individual Permit (with public hearing)	35	294	329
Individual Permit Significant Amendment (no public hearing)	35	186	221
Individual Permit Significant Amendment (with public hearing)	35	294	329
Individual Permit Other Amendment	35	100	135

Where to Submit the Application

Please submit the application electronically directly to the ADEQ Project Manager if you had a pre-application meeting else send it to groundwaterpermits@azdeq.gov.

Withdrawing your Application

The Applicant may withdraw an application at any time during the application process in accordance with A.A.C. R18-1-517. You may withdraw your application by submitting a written request to the reviewer assigned to your project. Withdrawing your application causes the LTF to cease. A final bill will be assessed at the time of withdrawal.

GENERAL INFORMATION

1. Application to obtain [A.R.S. 49-241]:

New APP _____

Amendment to a current APP Inventory No. P-100333 LTF No. 95297

Amendment Type: Significant Other Minor

Description of all amendment requests and justification for the amendment type included in Report Section/Appendix See attached Ambient Groundwater Monitoring Report

A copy of the current permit, annotated with any inconsistencies between the permit requirements and the existing facilities or operation, included in Report Section/Appendix _____

NOTE: ADEQ can provide the permit in WORD file format upon request.

2. Applicant/Permittee Name [A.A.C. R18-1-503(1)] (see Definitions):

Company/Government/Entity Name: (RESPONSIBLE FOR ALL PERMIT CONDITIONS)

Energy Fuels Resources (USA) Inc.

3. Applicant/Permittee - Certification Statement [A.A.C. R18-9-A201(B)(7)]:

I certify under penalty of law that this Aquifer Protection Permit application and all attachments were prepared under my direction or authorization and all information is, to the best of my knowledge, true, accurate and complete. I also certify that the APP discharging facilities described in this form is or will be designed, constructed, operated, and/or closed in accordance with the terms and conditions the Aquifer Protection Permit and applicable requirements of Arizona Revised Statutes Title 49, Chapter 2, and Arizona Administrative Code Title 18, Chapter 9 regarding aquifer protection permits. I am aware that there are significant penalties for submitting false information, including permit revocation as well as the possibility of fine and imprisonment for knowing violations.

Authorized person signature:

Name: Scott Bakken

Title: Vice President, Regulatory Affairs

Signature 

Date: 04/08/2024

4. Applicant/Permittee Address

Mailing Address: 225 Union Blvd, Suite 600, Lakewood, CO 80228

Billing Address: 225 Union Blvd, Suite 600, Lakewood, CO 80228

Email Address: sbakken@energyfuels.com

Phone Number: 303-389-4132

5. Authorized Agent [A.A.C. R18-1-503(A)(3)] (Optional, see Definitions):

Name: _____
Firm Name: _____
Mailing Address: _____
Email Address: _____
Phone Number: _____

6. Facility Information [A.A.C. R18-1-503(2), A.A.C. R18-9-201(B)(1)]

Name: Pinyon Plain Mine
Address: _____
County: Coconino
Latitude: 35 ° 53 ' 00 " Longitude: -112 ° 05 ' 48 "
Coordinate System used for Latitude and Longitude: NAD27 NAD83
Township 29N Range 3E Section: 20
Driving directions from a major intersection: From Williams, 45 north on Hwy 64/180

7. Facility Notices of Violation, Consent Orders or Compliance Orders in the last 2 years [A.A.C. R18-9-A202(A)(11), included in Report Section/Appendix None

8. Facility Owner

Company/Government/Entity Name: Energy Fuels Resources (USA) Inc.
Contact Person Name: Scott Bakken, Vice President, Regulatory Affairs
Mailing Address: 225 Union Blvd, Ste 600, Lakewood, CO 80228
Email Address: sbakken@energyfuels.com
Phone Number: 303-389-4132

9. Contact Person for Facility Emergencies [A.A.C. R18-9-A202(A)(11)]

Name: Matt Germansen Title: Mine Geologist
Mailing Address: 850 East Highway 89A, Fredonia, AZ 86022
Email Address: mgermansen@energyfuels.com
Phone Numbers landline: 928-607-9651 mobile phone: 928-853-9821

10. Contact Person(s) for Permit Compliance Schedule Items Notifications (Optional)

ADEQ has developed a tool to track compliance schedule items (CSIs) 30 and 5 days before they are due, and 5 days after they become overdue. The person(s) identified, will receive email notifications in addition to the Applicant/Permittee.

Name(s): Scott Bakken

Email Address(es): sbakken@energyfuels.com

11. Landowner

Company/Government/Entity Name: U.S. Forest Service, Kaibab National Forest

Contact Person Name: Debra Mollet, Williams-Tusayan District Ranger

Mailing Address: 800 South 6th Street, Williams, AZ 86046

Email Address: debra.mollet@usda.gov

Phone Number: 928-635-8200

12. Expected operational life of the Facility [A.A.C. R18-9-A201(B)(1)]

The operational life of the facility is 5-7 years

28,000

13. Facility discharge or influent per day in gallons [A.A.C. R18-14-104, A.R.S. 49-242]: (gallons)

14. All other federal or state environmental permits issued to the Applicant for the Facility or site, including type and identification number [A.A.C. R18-9-A201(B)(1)], included in Report Section /Appendix Not applicable

15. Are you required to file a certificate of disclosure according to A.R.S. §49-109?

Yes, attached in Report Section/Appendix _____

No, not required

16. Evidence that the facility complies with applicable municipal or county zoning ordinances, codes and regulations [A.A.C. R18-9-A201(B)(3)].

Included in Report Section/Appendix Not applicable

17. Evidence of technical capability to carry out the terms of the permit (design, construction, and operation) including licenses, certifications, training, and work experience [A.A.C. R18-9-A202(B)].

Included in Report Section/Appendix Not applicable

Cost Estimates and Financial Assurance Demonstration [A.A.C. R18-9-A201(B)(5) and R18-9-A203]

Is this application for:

- 1) A new permit? YES NO
- 2) Significant Amendment? YES NO
- NOTE: Updated cost estimates may be required for a significant amendment as defined by rule if required to address incremental changes in the cost estimate that result from the significant amendment, A.R.S. § 49-243(N)(2)(b).
- 3) Other Amendment for permit transfer? YES NO
- 4) Cost Estimate/Financial Demonstration update? YES NO
- 5) Estimate/Financial Demonstration at the direction of ADEQ? YES NO
- 6) A permit that has not been amended in the last five years? YES NO

If you answered “YES” to ANY of the above questions, provide updated cost estimates and a financial assurance demonstration. If you answered “NO” to ALL of the above questions, skip this section and continue to the “Technical Information” Section.

18. Cost Estimates included in Report Section/Appendix Not applicable

Closure costs and a financial demonstration are required even if the Applicant does not intend to close the facility in the near future. The closure and post-closure cost estimates must be based on the closure and post-closure plan/strategy (required by Application Item 32, below). Please see checklists for closure plans/strategies and cost estimate on the ADEQ website: <http://www.azdeq.gov/node/542>

NOTE: Cost estimates must be derived by an engineer, controller or accountant. Except as exempted by A.R.S.

§ 32-144.A.7 (employees of mining companies), professional documents, such as reports, plans and specifications, are to be signed by an Arizona registered engineer or geologist (A.R.S. § 32-125). Cost estimates prepared by an engineer, design documents and engineering analysis must be signed and sealed by an Arizona Registered Professional Engineer, and must not include labels such as “Draft”, “Preliminary”, or “Not for Construction” per A.R.S. § 32-101(B)(10 and 11) and 32-125.

Provide the cost estimates in the spaces provided below and attach supporting documentation for the cost estimates.

- a. Construction \$ N/A
- b. Operation \$ N/A
- c. Maintenance \$ N/A
- d. Closure \$ N/A
- e. Post-Closure \$ N/A

19. Financial Assurance Demonstration for either (a) non-government or (b) government:

Indicate which financial assurance demonstration will be provided to cover the cost of Closure and Post-closure. It is preferable to wait for ADEQ to review and approve the cost estimates prior to submitting the finalized financial demonstration required by Item 19; simply indicating the type of demonstration is adequate for submittal of the application. Please see the ADEQ website for financial assurance mechanism templates and instructions at <http://azdeq.gov/financial-responsibility-options-apps>

Provide information based on whether the Applicant/Permittee is a non-government or government entity:

f. A non-government entity:

- i. Financial Assurance Mechanism selected Select
- ii. Details of any financial mechanism held by another government agency for the purpose of closure and post-closure activities described in the closure plan/strategy, provided in Report Section/Appendix Not applicable
- iii. A letter on Company letterhead signed by the Chief Financial Officer, as required by A.A.C. R18-9-A203, is attached in Report Section/Appendix Not applicable

g. A government entity:

- i. A statement that indicates how the entity is capable of meeting the costs listed in the Cost Estimate section above is included in Report Section/Appendix Not applicable

APPLICATION TECHNICAL INFORMATION

20. Facility description, including the following information.

Included in Report Section/Appendix Not applicable

- a. A general description of what the facility does.
- b. When operations began or are estimated to begin.
- c. A general description of the facility process as it relates to the discharge, including:
 - ii. Operating, proposed and closed discharging facilities, or activities that discharge,
 - iii. source(s) of wastewaters/waste, and
 - iv. facility or location where the wastewater/waste is discharged.

NOTE: see the Definitions section for “discharging facility” and “discharge”

21. Process flow diagram that shows the activity producing the discharge (e.g. wastewater treatment, cooling, manufacturing), including the pertinent elements that affect the quality of the discharge.

Included in Report Section/Appendix Not applicable

22. List the discharging facilities and activities that discharge in the table below. Indicate whether they are currently operating/existing, are proposed as new, or are to be closed as part of this permit application, and provide their location [A.R.S. 49-241].

Additional facilities listed in Report Section/Appendix Not applicable

Facility or Activity Name (e.g. Evaporation Pond 1)	Existing, Proposed or to be closed	Latitude (North)			Longitude (West)		
Not applicable		o	'	”	o	'	”
		o	'	”	o	'	”
		o	'	”	o	'	”

23. Map(s) [A.A.C. R18-9-A202(A)(1)], included in Report Section/Appendix Not applicable

Include the following:

- 1) North arrow
- 2) Scale
- 3) Topography with sufficient resolution and legible elevations of contours for the facility
- 4) Facility location
- 5) Property line(s) and use of adjacent property
- 6) Overlay of State or Federal land
- 7) All known water wells within 1/2 mile of property boundary
- 8) Labeled with ADWR Well Number, latitude and longitude
- 9) Provide the uses and well construction details of the water wells, if known, water level elevations in the wells, and highlight/identify the nearest downgradient well. Tabulation of this data to prevent excessive labeling on the site plan itself is preferred.)

24. Site Plan [A.A.C. R18-9-A202(A)(2), (4) and (8), A.R.S. 49-244]
Included in Report Section/Appendix Not applicable

Include the following:

- 1) North arrow
 - 2) Scale
 - 3) Property lines
 - 4) Structures
 - 5) Water wells
 - 6) Injection Wells
 - 7) Drywells and their uses
 - 8) Topography
 - 9) All known borings
 - 10) 100-year floodplain (FEMA Flood Insurance Rate Map (FIRM) 100-year showing floodplain boundary preferred)
 - 11) Surface water bodies
 - 12) Surface water flow direction(s)
 - 13) Groundwater flow direction(s)
 - 14) Pollutant Management Area (PMA)
- NOTE: In cases where the site is very large, there are multiple PMAs or there is an excessive amount of information that would make the site plan indecipherable, it may be clearer to provide site plans for discrete areas or provide a separate site plan with the PMA, DIA and POC wells.
- 15) Discharge Impact Area (DIA).

Also, include the following with the latitude and longitude:

- 1) Discharging facilities/discharge locations and existing and proposed Point of Compliance (POC) locations and/or wells
- 2) Tabulation of this data to prevent excessive labeling on the site plan itself is preferred.
 - a. **For open pit mine facilities**, show the delineation of the passive containment capture zone (PCCZ) and the open pit boundary, if relying on this for BADCT.
 - b. **For Sewage Treatment Facilities** include effluent sampling and effluent discharge location(s) with latitude and longitude, and setback distance(s) measured from the treatment and disposal components within the sewage treatment facility to the nearest property line of an adjacent dwelling, workplace, or private property.

- Is this application for a Sewage Treatment Facility (STF)? YES ___ NO
- If you answered “YES” to the question above, skip items #25 through 27, and proceed to item #28.

25. Characterization of discharge [A.A.C. R18-9-A202(A)(4)].

Included in Report Section/Appendix Not applicable

For all non-STF facilities: provide characterization of discharge to include a summary of known past and proposed facility discharge activities. Provide estimated discharge characteristics or results of actual discharge characterization, and quantities/flow rate. Tabulated data is preferred with laboratory results included as an appendix.

Professional Document Requirements

Please note that, except as exempted by A.R.S. § 32-144.A.7 (employees of mining companies), professional documents, such as reports, plans and specifications, are to be signed by an Arizona registered engineer or geologist (A.R.S. § 32-125). Cost estimates prepared by an engineer, design documents and engineering analysis must be signed and sealed by an Arizona Registered Professional Engineer, and must not include labels such as “Draft”, “Preliminary”, or “Not for Construction” per A.R.S. § 32-101(B)(10 and 11) and 32-125.

The following application sections are typically considered professional documents: Application Items 26 through 32 (Design Documents, BADCT Description, Hydrogeologic Study, Demonstration of Compliance with AWQS at POC, Monitoring Proposal, Contingency Plan, and Closure/Post-closure Plan/Strategy) and Item 35, 36 and 39 for Sewage Treatment Facilities (Design Report, Engineering Plans and Specifications, and Sludge Treatment facilities).

26. Design Documents [A.A.C. R18-9-A202(A)(3)].

Included in Report Section/Appendix Not applicable

For all non-STF facilities: provide facility design documents, proposed or as-built, indicating the configuration or other engineered elements of the facility affecting discharge. Drawings must be legible with readable font sizes and include sufficient detail to indicate the key design features. When formal as-built plans are not available, provide documentation sufficient to allow evaluation of those elements of the facility affecting discharge, following the demonstration requirements of A.R.S. 49-243(B). Provide construction specifications and a quality control/quality assurance plan for new facilities.

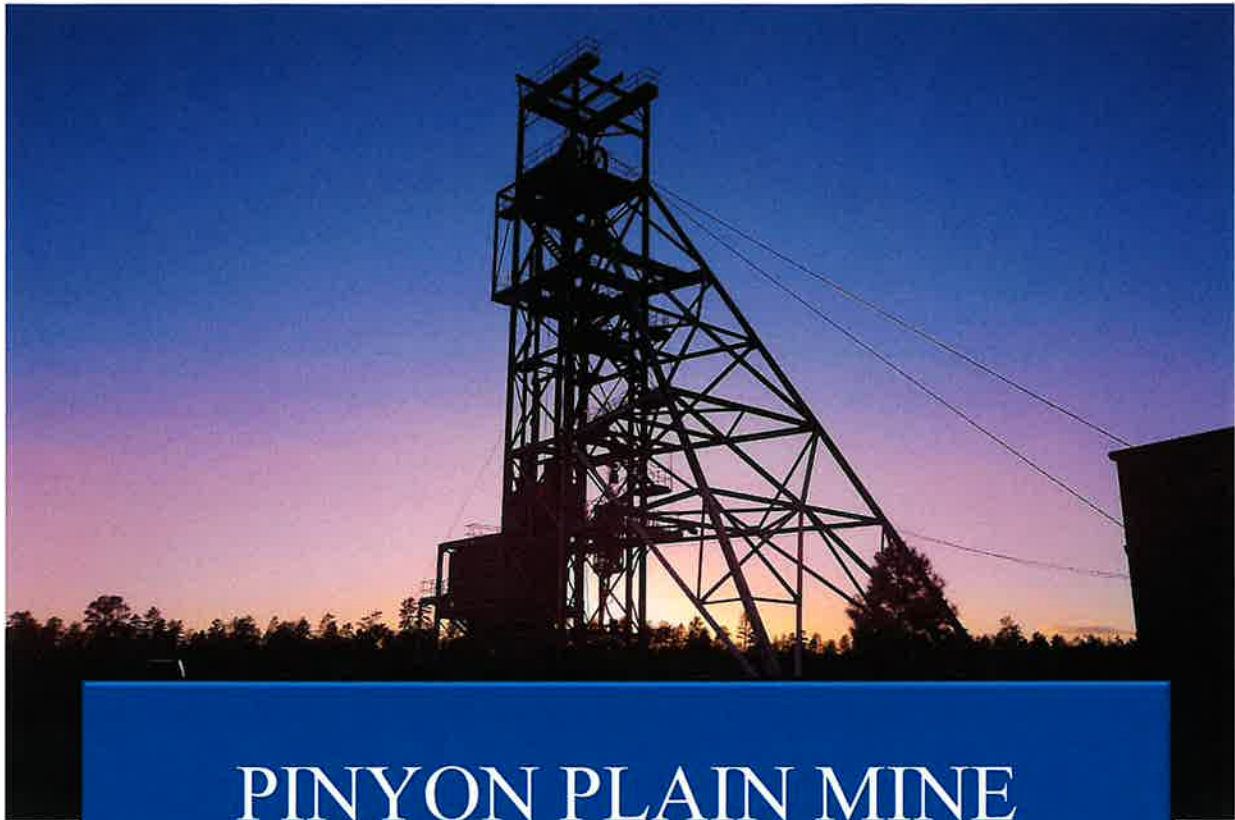
27. Best Available Demonstrated Control Technology “BADCT” Description [A.A.C. R18-9-A202(A)(5)]

Included in Report Section/Appendix Not applicable

For all non-STF facilities: provide design information pertaining to all discharging facilities including all calculations/analyses to demonstrate that all facilities are designed per BADCT guidance or rule.

Examples include: facility sizing, stability analyses, water balance, freeboard calculations, liner leakage rate calculations

For further specifics, please see the Mining and Industrial APP Engineering Substantive Checklist on the ADEQ website: <http://www.azdeq.gov/node/542>.



PINYON PLAIN MINE AMBIENT GROUNDWATER MONITORING REPORT



Mark S. Chalmers, P.E.
President & Chief Executive Officer

Energy Fuels Resources (USA) Inc.

Mark S. Chalmers 4/3/24

Prepared by:  **ENERGY FUELS**

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

April 2024

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Abbreviations and Acronyms

ADEQ	Arizona Department of Environmental Quality
ADWR	Arizona Department of Water Resources
AL	Alert Level
APP	Aquifer Protection Permit
AQL	Aquifer Quality Limit
AWQS	Aquifer Water Quality Standards
EFNI	Energy Fuels Nuclear, Inc.
Energy Fuels	Energy Fuels Resources (USA) Inc.
EPA	Environmental Protection Agency
FEIS	Final Environmental Impact Statement
GWQPP	Ground Water Quality Protection Permit
IUC	International Uranium (USA) Corporation
KNF	Kaibab National Forest
mg/L	milligrams per liter
Mine	Pinyon Plain Mine
ND	Non-detect
POO	Plan of Operations
ROD	Record of Decision
USFS	U.S. Forest Service

1.0 INTRODUCTION

On April 28, 2022, the Arizona Department of Environmental Quality (“ADEQ”) issued Individual Aquifer Protection Permit (“APP”) No. P-100333 (the “Individual APP”) to Energy Fuels Resources (USA) Inc. (“Energy Fuels”) for the continued operation of the Pinyon Plain Mine (the “Mine”) located in Coconino County, Arizona, over the groundwater of the Coconino Plateau Groundwater Basin, in Section 20, Township 29 North, Range 3 East of the Gila and Salt River Base Line and Meridian. The Individual APP consolidated the existing APP General Permits for the Mine, including one Type 3.04 for the non-stormwater impoundment and two Type 2.02 for the development rock stockpile and the intermediate ore stockpile. In addition, the Individual APP incorporated numerous existing groundwater protections already contained in the U.S. Forest Service (“USFS”)-approved Plan of Operations (“POO”), Final Environmental Impact Statement (“FEIS”), Record of Decision (“ROD”) and Clean Closure Plan for the Mine.

Section 3.0, Compliance Schedule Item 3 of the Individual APP requires the submittal of an APP minor amendment application, which includes a second ambient groundwater monitoring report to establish alert levels (“ALs”) and aquifer quality limits (“AQLs”) for point of compliance (“POC”) monitoring wells for the perched Coconino Aquifer and any remaining parameters for the Redwall-Muav aquifer where limits have not been previously established. This second Ambient Groundwater Monitoring Report (the “Report”) has been prepared to meet the requirements of Compliance Schedule Item 3 and includes an analysis of background sampling data and statistical approach to setting ALs and AQLs. Copies of all Arizona Department of Water Resources (“ADWR”) documents related to the four wells, including as-built diagrams and latitude/longitude, are also contained in this Report.

1.1 Background

The Mine is located on land managed by the Kaibab National Forest (“KNF”). The Mine was initially developed and operated by Energy Fuels Nuclear, Inc. (“EFNI”) from late 1986 through 1992, after which time it was put on standby due to the economic downturn in the price of uranium. At that time, the production shaft had been developed to a depth of approximately 50 feet. International Uranium (USA) Corporation (“IUC”) acquired the Mine in 1997 and, in 2007, IUC was renamed Denison Mines (USA) Corp. (“Denison”). In 2012, Energy Fuels (no relation to EFNI) acquired the Mine from Denison and became operator of the Mine. Rehabilitation and further development of the Mine was started in 2013. At that time, the production shaft was completed to a depth of about 300 feet. From late 2013 to 2015, the mine was placed on standby. In late 2015, development activities on the production shaft resumed. In February 2018, the production shaft was completed to a depth of 1,470 feet after which the mine was again placed on standby due to depressed uranium prices. Upon completion of the shaft and shaft sump, a liner was installed in the sump, and water has been continuously pumped from the lined sump to the impoundment. Other facilities that were constructed prior to ore production, which commenced in December 2023, include the lined intermediate ore stockpile, development rock stockpile and ventilation shaft.

Groundwater occurs in two separate aquifers beneath the site: the shallower, perched unconfined Coconino aquifer, and the deep, confined regional Redwall-Muav aquifer. Depths to these aquifers are approximately 941 feet and 2,870 feet below ground surface, respectively. Although hydraulic pressure in the confined regional aquifer has caused water in the onsite Redwall-Muav water supply/monitoring well to rise to a depth as shallow as 2,525 feet, the depth to the top of the confined regional aquifer beneath the site is approximately 2,870 feet. The groundwater flow direction in the Redwall-Muav aquifer is to the southwest based on regional studies. Based on findings from the *Initial Hydrogeologic (Monitoring) Report* by Hydro Geo Chem, Inc dated June 24, 2022, it appears likely that pre-determining which of the three Coconino wells will serve as a downgradient Point of Compliance (POC) well may not be possible at present; and that evaluating the actual pre-shaft hydraulic gradients in the Coconino may not be possible until reequilibration of the groundwater system has occurred post-closure. Further, cones of depression computed from water level and pumping test data clearly show that all perched (Coconino) groundwater within the vicinity of the mine site is currently flowing toward the shaft; this condition is expected to continue until mining ceases and the shaft is abandoned and sealed as described in HGC (2020).

2.0 WELL INSTALLATION AND GROUNDWATER MONITORING

In September 1986, the USFS issued its ROD relating to the approval and environmental review of the USFS-approved POO for the Mine. While the FEIS concluded that no adverse impacts were expected to groundwater from the development and operation of the mine, the FEIS required a monitoring well to be drilled to the Redwall-Muav aquifer in close proximity to the mine shaft as an added precautionary measure. The well, which was completed in 1986-87, is used to confirm lack of adverse impacts, as well as to ensure proper mitigation after mine closure, if necessary. The ROD summarized the conclusions from the FEIS regarding potential impacts to groundwater, and also addressed the required installation and monitoring of the groundwater well in the Redwall-Muav aquifer at the site.

In May 1988, the ADEQ issued Groundwater Quality Protection Permit No. G-0004-003 (the “GWQPP”) for the Mine. Part II.B.1.a. (Phase I – Pre-Mining) of the GWQPP required ambient groundwater monitoring from the USFS well in the regional (Redwall-Muav) aquifer. This groundwater monitoring well, which was originally required by the USFS and included in the GWQPP, has now been incorporated in the Individual APP as well POC #4.

In September and October 2020, three new wells were installed at the Mine within the perched Coconino aquifer and incorporated in the Individual APP as wells POC #1 – East Well, POC #2 – North Well, and POC #3 – South Well.

2.1.1 Well Construction

Well construction details for POC wells #1-3 were provided in Appendix A.2 of Energy Fuels’ *Initial Hydrogeologic (Monitoring) Report* submitted June 24, 2022.

Well construction details for well POC #4 were provided in Sections 9 and 9.1 of Appendix A (Hydrogeologic Report) of Energy Fuels’ *Application to Consolidate Existing Environmental*

Protections in an Individual Aquifer Protection Permit for the Pinyon Plain Mine dated November 11, 2020 (the “Individual APP Application”).

For ease of reference, the schematic diagram of construction information contained in both of the previously submitted reports are provided in Appendix A of this Report. Copies of ADWR documents related to wells POC #1-4 are provided in Appendix B of this Report.

2.1.2 Ambient Groundwater Monitoring

Coconino Wells POC #1-3

The three wells installed in the Coconino Formation (POC #1-3) were monitored for 12 successive quarters in order to obtain the minimum eight valid data points specified in the permit. The monitoring to establish ambient water quality commenced in Q1 2021 and concluded in Q4 2023. Ambient groundwater monitoring samples were analyzed for the full list of parameters listed in Section 4.2, Table 8: AMBIENT GROUNDWATER MONITORING of the APP.

Redwall-Muav Well POC #4

Following installation and completion of well POC #4, a pre-mining groundwater monitoring program was conducted by Erroll L. Montgomery & Associates, Inc. (“ELMA”) for EFNI at the Mine site from 1986 to 1993. The data collected during this time, as previously summarized by ELMA, was described in Section 11 and provided in Appendix G of Appendix A (Hydrogeologic Report) of Energy Fuels’ Individual APP Application. For ease of reference, the information contained in Section 11 and Appendix G of Appendix A of the Individual APP Application, which includes the results of dissolved arsenic and uranium analyses consistent with Section 4.2, Table 8, of the Individual APP, is provided in Appendix C of this Report.

As previously described in Section 2.0 above, following issuance of the GWQPP by the ADEQ in May 1988, pre-mining ambient groundwater monitoring from well POC #4 was also being conducted under the requirements of Part II.B.1.a. of the GWQPP. Copies of laboratory analytical reports from the June 28, 1988, December 30, 1989, and March 30, 1990 monitoring events, as submitted to the ADEQ at that time, are provided in Appendix D of this Report. Appendix D also contains laboratory analytical reports for pre-mining groundwater monitoring data collected by Energy Fuels during the period 2017 through the fourth quarter of 2023. Together, these two datasets (1986-1993 and 2017-2023) were used in the analysis of background sampling data and statistical approach described in Section 3.0 below.

3.0 ANALYSIS OF BACKGROUND SAMPLING DATA AND STATISTICAL APPROACH

Statistical analysis of the sample datasets was performed by INTERA Incorporated as described in their *Technical Memorandum in Support of Statistical Analysis of All Constituents with an Established Numeric AWQS and Uranium in POC #1, POC #2, POC #3, and POC #4 at the Pinyon Plain Mine* dated April 8, 2024, (see Appendix E). As described in INTERA’s memo, USEPA Guidance was followed to provide summary statistics, distribution, outlier, and trend analysis prior

to calculating ALs and/or AQLs (USEPA, 2009, 2015). The statistical analysis and calculation of AL and/or AQL values and ambient data (for uranium) described in the INTERA memorandum follows the APP formula for parametric distributions and a slightly different method for nonparametric distributions. Wells that display significant increasing trends may require more frequent updates to ambient groundwater concentrations (USEPA, 2009). As a result, a modified approach to determining AL and/or AQL values or, in the case of uranium, ambient data, may be warranted.

4.0 ALERT LEVELS AND AQUIFER QUALITY LIMITS

As described in INTERA's memo, the most appropriate AL and AQL values for constituents with an established numeric AWQS plus uranium and field pH in POC #1, POC #2, POC #3, and POC #4 are shown in **Tables 6 through 10 of Appendix E**. The AL for datasets containing 50% and below non-detects (NDs) was calculated as the greater of the $AL = M + KS$ value or 80% of the AWQS (or 0.03 mg/L standard for uranium). The AQL for these datasets was set equal to the AWQS if the AL was less than the AWQS (or 0.03 mg/L in the case of uranium) and was set equal to the AL if the AL was greater than the AWQS (or 0.03 mg/L in the case of uranium). When the AQL equals the AWQS, no AL is to be set for the constituent in the given POC well. The AL for datasets containing greater than 50% NDs was calculated as 80% of the AWQS and the AQL was set equal to the AWQS.

APPENDICES

APPENDIX A

WELL CONSTRUCTION



Energy Fuels Resources (USA) Inc.
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Lakewood, CO, US, 80228
303 974 2140
www.energyfuels.com

June 24, 2022

Via Express Delivery

Arizona Department of Environmental Quality
Mail Code 5415B-3
1110 West Washington Street
Phoenix, AZ 85007
(602) 771-4571

RE: Aquifer Protection Permit No. P-100333, LTF 84446, Pinyon Plain Mine – Initial Monitoring Report

Dear Sir/Madam:

Energy Fuels Resources (USA) Inc. (“Energy Fuels”) is providing the enclosed “Initial Hydrogeologic (Monitoring) Report” by Hydro Geo Chem, Inc. in accordance with Section 2.7.4.1 and Section 3.0, Table 5, Item No. 3 of Aquifer Protection Permit No. P-100333 for the Pinyon Plain Mine, Coconino County, Arizona.

Please contact me at 303-389-4132 or sbakken@energyfuels.com if you have any questions or need additional information.

Sincerely,

ENERGY FUELS RESOURCES (USA) INC.

Scott A. Bakken
Vice President, Regulatory Affairs

Enc. Initial Hydrogeologic (Monitoring) Report, Hydro Geo Chem, Inc.

cc: D. Frydenlund, K. Weinel, M. Germansen (Energy Fuels)

**INITIAL HYDROGEOLOGIC (MONITORING) REPORT
PINYON PLAIN MINE
COCONINO COUNTY, ARIZONA**

June 24, 2022

Prepared for:

ENERGY FUELS RESOURCES (USA) INC
225 Union Blvd., Suite 600
Lakewood, Colorado 80228

Prepared by:

HYDRO GEO CHEM, INC.
51 West Wetmore Road, Suite 101
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(520) 293-1500

Project Number 718100.00



**INITIAL HYDROGEOLOGIC (MONITORING) REPORT
PINYON PLAIN MINE
COCONINO COUNTY, ARIZONA**

Prepared for:

ENERGY FUELS RESOURCES (USA) INC
225 Union Blvd., Suite 600
Lakewood, Colorado 80228

Prepared by:



A handwritten signature in blue ink, appearing to be "Stewart J. Smith".

Stewart J. Smith
Associate Hydrogeologist

A handwritten signature in blue ink, appearing to be "Alex M. Richards".

Alex M. Richards, R.G.
Senior Hydrogeologist

June 24, 2022

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1. INTRODUCTION

This report constitutes the initial hydrogeologic (monitoring) report for the Pinyon Plain Mine located in Coconino County, Arizona, in accordance with Section 2.7.4.1 and Section 3.0, Table 5, Item No. 3 of Aquifer Protection Permit No. P-100333. Specifically, this report describes the installation, development and hydraulic testing of three new perched Coconino monitoring wells; water level monitoring of these wells; analysis of the ‘cone of depression’ within the perched Coconino resulting from shaft installation; and analysis of the ‘background’ (pre-shaft) hydraulic gradient within the perched Coconino. The cone of depression caused by shaft installation results from the continuous flow of water into the shaft. Because the water level in the shaft is maintained well below the base of the Coconino, the shaft behaves as a continuously over-pumped well within the Coconino. Water from the Coconino has been collected either within a ‘water ring’ installed within the shaft at the base of the Coconino, or within the lined sump at the base of the shaft, and continuously pumped to the lined (non-stormwater) impoundment or water storage tank at the surface.

The three wells were installed during September and October 2020 at the locations shown in Figure 1. Figure 1 shows the surveyed locations of the wells at the surface and the positions of the bases of the wells. Significant deviations from vertical occurred during drilling and installation of all of the wells, with the largest deviation occurring at the North Well. Development consisted of airlifting. Hydraulic testing consisted of pumping tests conducted during the week of January 18, 2021.

2. DRILLING AND CONSTRUCTION

Drilling and construction were performed by Drill-Tech, Inc. Logging of borings and oversight of well construction were performed by Mr. Matthew Germansen, an employee of Energy Fuels Resources (USA) Inc. (EFRI). As-built diagrams for the well construction, based primarily on information provided by Mr. Germansen, are shown in Figures 2 through 4. The depths to water shown in the as-built diagrams were based on water level measurements taken prior to pump installation (in feet below land surface [bls]). Wells were surveyed by a State of Arizona licensed surveyor.

2.1 Drilling and Logging Procedures

All borings were drilled by air rotary. Copies of the lithologic logs prepared by Mr. Germansen are provided in Appendix A.1. Geophysical logging performed by GeoLog, LLC included borehole deviation, caliper, natural gamma, self-potential, and resistivity. Geophysical logs are also provided in Appendix A.1. Within the Coconino, lithologic logs noted the presence of sulfides mainly in the lower depth intervals, but did not indicate the presence of any open fractures that could result in secondary porosity.

For each well, a 15-inch diameter borehole was drilled to 20 feet bls and fitted with a 10-inch diameter (OD) steel surface (conductor) casing. Once the surface casings were in place, the boreholes were drilled by air rotary to a depth of approximately 920 feet bls using 8¾-inch diameter bits. Six (6)-inch diameter (OD) steel casings with centralizers attached along the entire 920-foot length of each casing were then pressure grouted in place. Nominal 6-inch diameter borings were then drilled to total depth using an under-reaming bit. A one (1)-inch diameter perforated PVC “sounding tube” was installed from the surface to the top of the pump installed in each well. The boreholes penetrated the Moenkopi, Kaibab, Toroweap, and Coconino Formations and terminated in the Hermit Shale at depths ranging from approximately 1135 to 1140 feet bls. The base of the Coconino (top of Hermit Shale) was encountered at approximately 1125 feet bls in each boring.

2.2 Construction

The wells were constructed as open-hole with no screen or filter pack. This is appropriate in bedrock formations such as the Coconino. As discussed above, 6-inch diameter steel casings were pressure grouted in place from approximately 920 feet bls to the surface and 10-inch diameter steel conductor casings were grouted in place within the upper 20 feet of each installation. The centralizers attached to the outside of each 6-inch diameter casing ensured that

pressurized grout fully sealed the annular space between each casing and the surrounding bedrock.

Well positions and elevations were measured by a State of Arizona licensed surveyor. Surveyed locations and elevations are provided in Table 2. Table 2 also contains approximate information for the offsite U.S. Geological Survey (USGS) Coconino observation well. Arizona Department of Water Resources (ADWR) records for the three wells are provided in Appendix A.2.

2.3 Development

Wells were developed by airlifting until clear (visually non-turbid) water was obtained.

3. HYDRAULIC TESTING

Hydraulic testing consisted of pumping tests using the submersible pumps installed in each well. Due to significant deviations from vertical in each well, the originally planned slug tests, which were to be conducted prior to pump installation, were judged to be impractical. Therefore, pumping tests were conducted after the pump installations were completed.

3.1 Testing Procedures

Pumping tests were performed by pumping each well at a rate of approximately 4 gpm for 2 hours then allowing the well to recover. Discharge rates were monitored by hand using the graduated bucket and stopwatch method. Water level monitoring was also by hand using an electric water level meter via the water level sounding tubes installed in the wells. Difficulties in achieving a steady discharge rate in the early stages of the East well test caused early drawdowns to be somewhat variable; although once discharge rates stabilized after about 30 minutes of pumping, the drawdown data were well-behaved. Difficulties in establishment of stable discharge rates at the other two wells also caused variable drawdowns within the early portions of those tests.

Water level monitoring using Level Troll™ data loggers was planned; however, attempts to install the Level Trolls were unsuccessful as they ‘hung up’ in the sounding tubes at depths much shallower than the groundwater. Therefore, the water levels were monitored by hand as often as practicable, with readings taken as rapidly as possible during the early portions of pumping and recovery phases when water levels were changing more rapidly. Even so, an apparent ‘kink’ in the sounding tube at the South well caused difficulties in measuring drawdowns between approximately 50 and 60 feet.

In addition, attempts were made to perform step-rate tests. The day prior to commencement of the tests was used to determine the flow rates achievable by each pump and to adjust valves installed on the discharge lines to reduce the maximum rates by half. The valves were then left in the half-flow condition. The first step of each test was to consist of pumping at half the maximum rate (with the valve in the half-flow condition) and the second step to consist of pumping at the maximum rate (by fully opening the valve). However, due to problems with the valves resulting from freezing conditions, the decision was made to perform constant rate tests at each well at rates of approximately 4 gpm.

The 4 gpm pumping rate induced substantial drawdowns in all wells. Maximum drawdowns after approximately 2 hours of pumping were approximately 55 ft; 45 ft; and 93 ft for the East, North and South wells, respectively. These drawdowns are consistent with relatively low hydraulic

conductivity and suggest that the hydraulic conductivity is lowest at the South well; intermediate at the East well; and highest at the North well.

3.2 Hydraulic Test Data Analysis

Data from each test was analyzed using AQTESOLV™ (Duffield, 2007), a computer program developed and marketed by HydroSOLVE, Inc. using two solution methods: the Moench unconfined aquifer solution and the Cooper-Jacob unconfined aquifer solution. Saturated thicknesses were taken as the difference between the static water level in each well and the depth of the base of the Coconino (top of Hermit Shale).

Barometric pressures were monitored during the tests but changes were on the order of a few tenths of a foot of water which were insignificant compared to the tens of feet of drawdown that were measured in each well. Therefore, even if water levels had been influenced by barometric pressure changes, they would not have a measurable impact on the analyses.

The Moench solution allows estimation of both specific yield and storage coefficient, while the Cooper-Jacob solution allows estimation of only the storage coefficient, which is essentially a lumping of specific yield and elastic storage. The Moench solution accounts for well bore storage and non-steady flow while the Cooper-Jacob solution does not. For this reason, Cooper-Jacob is valid only when a straight line is identifiable on a plot of the displacement versus log of time (indicating that flow is nearly steady), and generally, only the later time data are interpretable. By contrast, both early and late-time data are typically analyzable using the Moench solution.

Table 1 and Appendix B provide the results of the analyses. Appendix B contains plots generated by AQTESOLV™ that show the quality of fit between measured and simulated displacements, and reproduce the parameters used in each analysis. Appendix C provides drawdown data used in the analyses. Estimates of hydraulic conductivity range from approximately 0.02 feet per day (ft/day) to 0.12 ft/day using the Moench solution; and from approximately 0.027 ft/day to 0.14 ft/day using the Cooper-Jacob solution. Estimates bracket the estimate of 0.03 ft/day provided in the aquifer protection permit (APP) application (HGC, 2020) that was based on an analysis of water produced from the Coconino (approximately 5 gpm) during installation of the site water supply/monitoring well.

Results for storage coefficient and specific yield are typical for an unconfined aquifer, except at the North well where estimates of both parameters are relatively low and more characteristic of a confined or semi-confined aquifer.

In general, there is good agreement between hydraulic conductivity estimates obtained from the two solution methods, with results differing by less than 50%. Although there was generally good agreement between the Moench and Cooper-Jacob results, because the Moench solution accounts for wellbore storage, specific yield and non-steady flow, the results obtained using Moench are considered more representative than those obtained using Cooper-Jacob.

4. WATER LEVEL MONITORING AND ESTIMATION OF PRE-SHAFT PERCHED HYDRAULIC GRADIENT

Water level data have been collected from the three new perched Coconino monitoring wells and used in conjunction with water level data from the offsite USGS Coconino well to estimate the cone of depression resulting from shaft seepage and to estimate the pre-shaft perched Coconino hydraulic gradient. Cones of depression computed from water level and pumping test data clearly show that all perched groundwater within the vicinity of the mine site is currently flowing toward the shaft; this condition is expected to continue until mining ceases and the shaft is abandoned and sealed as described in HGC (2020). Once abandoned and sealed, the shaft will no longer behave as a pumping well.

4.1 Water Level Measurements

Several water level measurements (depths to water) were obtained subsequent to well installation and converted to water level elevations as shown in Table 3. Water levels measured on November 12, 2020 were the latest obtained prior to pump installation, which is expected to have caused at least temporary disturbances. The depths to water obtained on November 12, 2020 were approximately 985.2 feet for the East well; 986.1 feet for the North well; and 955.6 feet for the South well. Based on surveyed measuring point elevations, these yielded perched groundwater elevations of approximately 5524.4 feet amsl for the East well; 5527.4 feet amsl for the North well; and 5546.5 feet amsl for the South well (Table 3). Subsequent water level elevations shown in Table 3 are based on quarterly water level measurements collected during the first, second, third and fourth quarters of 2021; and the first quarter of 2022. Field data sheets showing depth to water measurements from the first quarter of 2021 through the first quarter of 2022 are provided in Appendix D.

Water level elevations tabulated in Table 3 are plotted in Figure 5A; and depths to water reported for the offsite USGS Coconino observation well are plotted in Figure 5B. Although noisy, water levels at all wells, including the USGS well, are trending downward, consistent with the influence of the cone of depression caused by seepage of water into the shaft. Water level elevations for the USGS well were obtained from graphs provided on the USGS website for the USGS Pinyon Plain perched groundwater well.

First quarter, 2022 perched groundwater elevations for all four wells are provided in Figure 6.

4.2 Estimation of Cone of Depression

Perched groundwater levels in the vicinity of the shaft have been influenced by the cone of depression created by the shaft which has essentially acted as a continuously pumping well since it penetrated the saturated Coconino in late 2016. Assuming the cone of depression induced by shaft seepage is symmetrical, and the pre-shaft water table can be approximated by a plane, water level data from three wells installed at equal distances from the shaft and separated by 120 degrees could be directly converted to the pre-existing water table plane.

Although the East and North wells are approximately equidistant from the shaft, the South well is at a significantly greater distance from the shaft so as not to penetrate the mineralized breccia pipe. However, the South well was purposely placed on a line between the shaft and the offsite USGS well to enable the fitting of a logarithmic function to the water levels in these two wells and the water level in the shaft (essentially the base of the Coconino since the water level in the shaft has been maintained below the base of the Coconino) to define the shape of the cone of depression. The cone of depression can then be 'subtracted out' to define the slope of the plane representing the pre-shaft water table.

Considering only the water levels at the two wells roughly equidistant from the shaft (East and North wells as shown in Figure 6), the water level is several feet lower at the East well suggesting a primarily eastward-directed hydraulic gradient. This apparent eastward-directed gradient differs from the broader regional dip to the southwest in this area, which was expected to result in a generally southwest-directed perched groundwater hydraulic gradient (HGC, 2020).

An additional result of the hydraulic testing was the relatively large variation in hydraulic conductivity estimates for the Coconino (varying by about a factor of six), with the smallest hydraulic conductivity at the South well and the largest at the North well. The relatively low and variable hydraulic conductivities are, however, consistent with a variably-cemented sandstone that is un-impacted by secondary porosity such as fractures.

The variation in hydraulic conductivity is expected to result in asymmetries within the cone of depression, with hydraulic gradients within the cone largest where the hydraulic conductivities are lowest, and smallest where the hydraulic conductivities are largest. If hydraulic conductivity were the only influence on water levels, then the North well would be expected to have the lowest water level; however, the East well, with its intermediate hydraulic conductivity, has the lowest water level. Therefore, the water level is lowest at the East well due to other factors, possibly including the pre-existing hydraulic gradient.

Although asymmetries are expected in the actual cone of depression, AQTESOLV™ was used to simulate a cone of depression over a 5-year period by treating the shaft as a very large diameter well. The AQTESOLV-simulated cone of depression is necessarily symmetrical as a uniform hydraulic conductivity is assumed by the analytical solution methods available in AQTESOLV™.

The simulation assumed an average hydraulic conductivity of 0.064 ft/day (the average of the hydraulic conductivities calculated using the Moench solution [Table 1]); an initial saturated thickness of 200 feet; and an average seepage rate for the Coconino of 15 gpm. Specified storage properties were the same as for the East well, which has the intermediate hydraulic conductivity. The simulated cone of depression is provided in Figure 7. The cone of depression was then converted to water levels as shown in Figure 8.

In addition, a best-fit logarithmic function was obtained from water levels at the offsite USGS well, the South well, and the base of the Coconino in the shaft (Figure 9). This function was then used to calculate the water level distribution shown in Figure 10. The cone of depression shown in Figure 10 is likely to be steeper on average than the actual cone of depression because it relies on water levels to the south of the shaft which appear to be influenced by relatively low hydraulic conductivities.

Both Figures 8 and 10 show that all perched groundwater within the saturated portion of the Coconino in the vicinity of the minesite is expected to flow toward the shaft.

4.3 Estimation of Hydraulic Gradient

The simulated water level distributions in Figures 8 and 10 differ from the measured water levels at the on-site wells presumably (at least in part) due to the influence of the pre-shaft perched hydraulic gradient. Taking the differences between the simulated and measured water levels yields what will be referred to as the ‘residuals’. Obtaining a best-fit plane (via polynomial regression) to these residuals yields a ‘residual plane’ whose slope is expected to reflect the pre-shaft hydraulic gradient. The residual planes obtained based on the AQTESOLV™ and logarithmic function water level distributions are provided in Figures 11 and 12, respectively. As indicated, both methodologies yield generally eastward-directed hydraulic gradients. The magnitude of the hydraulic gradient obtained by AQTESOLV™-simulated water levels is approximately 0.026 feet per foot (ft/ft) to the east-southeast; and the magnitude of the hydraulic gradient obtained by log function-simulated water levels is approximately 0.028 ft/ft to the east-northeast. The direction of the hydraulic gradient obtained using the log function simulated water levels is oriented more to the north than that obtained using the AQTESOLV™-simulated water

levels; this difference presumably arises in part because the log function calculation was based on southern water levels which, due to lower hydraulic conductivity, are expected to reflect the steepest portion of the actual cone of depression.

4.4 Resultant Groundwater Elevation Contour Maps

Figures 13 and 14 provide ‘resultant’ groundwater elevation contour maps. The groundwater elevation contours are calculated from the AQTESOLVTM-generated water levels and residual plane (Figure 13); and from the Best Fit Log Function water levels and residual plane (Figure 14). As shown in these Figures, groundwater contour elevations closely match measured water levels. Similarly to Figures 8 and 10, Figures 13 and 14 show that perched groundwater within the saturated portion of the Coconino in the vicinity of the minesite is expected to flow toward the shaft.

4.5 Estimated Rates of Pre-Shaft Perched Groundwater Migration

Assuming the average hydraulic conductivity of 0.064 ft/day, and a porosity of 18% (Lee and Haimson, 2004; Ma and Haimson, 2015; and Xiaodong and Haimson, 2016), the average rate of perched groundwater migration within the Coconino prior to shaft installation is approximately 0.0092 ft/day (3.4 feet per year [ft/yr]) assuming a hydraulic gradient of 0.026 ft/ft; or approximately 0.0099 ft/day (3.6 ft/yr) assuming a hydraulic gradient of 0.028 ft/ft. Once mining is complete and the shaft is abandoned and sealed as described in HGC (2020), the cone of depression is expected to dissipate and perched groundwater is expected to resume its pre-shaft flow direction (estimated to be east-southeast to east-northeast based on the Section 4.3 calculations).

At the present time, water level data clearly show that all perched Coconino groundwater flow in the vicinity of the site is directed inward toward the shaft. This condition is expected to continue until mining ceases and the shaft is abandoned and sealed.

5. DISCUSSION

Although the pre-shaft hydraulic gradient was estimated for the perched Coconino, there are large uncertainties in the estimates, as such evaluation depends in large part on development of a near-symmetrical cone of depression around the shaft. However:

1. The hydraulic conductivity distribution is sufficiently heterogeneous that development of a symmetrical cone of depression is unlikely;
2. Water level monitoring data show that the water levels at the East Well are dropping much faster (more than 3 ½ times faster) than water levels at the North Well (which is about at the same approximately 300 foot distance from the shaft), confirming that the cone of depression is asymmetrical; and
3. If water level trends were projected into the past, prior to sinking the shaft through the Coconino, East Well water levels could have been more than 10 feet higher than North Well water levels (Figure 15); and both East and North Well water levels could have been higher than water levels at about 300 feet south of the shaft, implying that pre-shaft flow could have been to the south-west.

The east-southeast to east-northeast sloping ‘residual planes’ calculated as described in Section 4.3 could result largely from factors other than the pre-shaft hydraulic gradient and therefore may not reflect the pre-shaft hydraulic gradient. Because of the uncertainty in evaluating pre-shaft flow directions and gradients in the Coconino, estimated rates of pre-shaft groundwater migration presented in Section 4.5 are also uncertain. Regardless, the relatively low hydraulic conductivity of the Coconino suggests that pre-shaft groundwater migration rates would have been relatively low.

Overall, it appears likely that pre-determining which of the three Coconino wells will serve as a downgradient Point of Compliance (POC) well may not be possible at present; and that evaluating the actual pre-shaft hydraulic gradients in the Coconino may not be possible until re-equilibration of the groundwater system has occurred post-closure.

6. CONCLUSIONS AND RECOMMENDATIONS

Drilling and construction of the three new perched Coconino groundwater monitoring wells were performed by Drill-Tech, Inc. Logging of borings and oversight of well construction were performed by Mr. Matthew Germansen, an employee of EFRI. All borings were drilled by air rotary to a depth of approximately 920 feet bls using 8³/₄-inch diameter bits. 6-inch diameter (OD) steel casings were then pressure grouted in place. Nominal 6-inch diameter borings were then drilled to total depth using an under-reaming bit. The boreholes penetrated the Moenkopi, Kaibab, Toroweap, and Coconino Formations and terminated in the Hermit Shale at depths ranging from approximately 1135 to 1140 feet bls. The base of the Coconino (top of Hermit Shale) was encountered at approximately 1125 feet bls in each boring. The wells were constructed as open-hole with no screen or filter pack and were developed by airlifting until clear (non-turbid) water was obtained. Wells were surveyed by a State of Arizona licensed surveyor.

Hydraulic testing consisted of pumping at approximately 4 gpm for 2 hours while monitoring depths to water and pumping discharge rates. Wells were allowed to recover as depth to water measurements continued. Pump test data were analyzed using the unconfined Moench and Cooper-Jacob analytical solutions. Estimates of hydraulic conductivity range from approximately 0.02 feet per day (ft/day) to 0.12 ft/day using the Moench solution; and from approximately 0.027 ft/day to 0.14 ft/day using the Coper-Jacob solution. Estimates bracket the estimate of 0.03 ft/day provided in the APP application (HGC, 2020) that was based on an analysis of water produced from the Coconino (approximately 5 gpm) during installation of the site water supply/monitoring well. The relatively low and variable hydraulic conductivities are, however, consistent with a variably-cemented sandstone that is un-impacted by secondary porosity such as fractures. The absence of fractures in the Coconino is also consistent with lithologic logs provided in Appendix A.1.

Results for storage coefficient and specific yield are typical for an unconfined aquifer, except at the North well, where estimates of both parameters are relatively low and more characteristic of a confined or semi-confined aquifer.

In general, there is good agreement between hydraulic conductivity estimates obtained from the two solution methods, with results differing by less than 50%. Although there was generally good agreement between the Moench and Cooper-Jacob results, because the Moench solution accounts for wellbore storage, specific yield and non-steady flow, the results obtained using Moench are considered more representative than those obtained using Cooper-Jacob.

Estimates of pre-shaft perched hydraulic gradients were computed by evaluating the cone of depression resulting from shaft seepage using two different methods and then ‘subtracting out’ the effect of the cones of depression to yield ‘residual planes’. The slopes of these residual planes are presumed to be reflective of the pre-shaft perched water hydraulic gradient; however, large uncertainties involved in assessing the pre-shaft hydraulic gradient suggest that it may not be possible until re-equilibration of water levels occurs post-closure. Hydraulic gradient estimates calculated as described above ranged from approximately 0.026 ft/ft to the east-southeast to 0.028 ft/ft to the east-northeast, depending on the calculation method.

Estimates of perched groundwater migration rates based on the pre-shaft hydraulic gradients computed as discussed above indicate pre-shaft groundwater migration rates ranging from approximately 3.4 to 3.6 ft/yr. Although perched groundwater within the Coconino is estimated as described above to have flowed generally to the east prior to shaft sinking, cones of depression computed from water level and pumping test data clearly show that all perched groundwater within the Coconino in the vicinity of the minesite is currently flowing toward the shaft; this condition is expected to continue until mining ceases and the shaft is abandoned and sealed as described in HGC (2020).

Ignoring the uncertainties in the pre-shaft hydraulic gradient calculation, and assuming the estimated pre-shaft generally eastward directed flow is correct, perched groundwater would have been flowing generally parallel to the closest portion of the south rim of the Grand Canyon. However, even if flow was directly north toward the south rim of the Grand Canyon, perched groundwater at the site could not reach the south rim due to the rise in elevation of the base of the Coconino (top of Hermit Shale) between the site and the south rim. Data presented in HGC (2020), in particular Figure 6 of Appendix A (HGC, 2020), show that north of the site the base of the Coconino rises hundreds of feet above the top of the perched groundwater before reaching the south rim; and Figure 10 of Appendix A (HGC, 2020) shows that the Coconino is dry at locations between the site and the south rim.

Because of the uncertainties in evaluating pre-shaft flow directions and gradients in the Coconino, the rates of pre-shaft groundwater migration calculated above are likely not representative. Regardless, the relatively low hydraulic conductivity of the Coconino suggests that pre-shaft groundwater migration rates would have been relatively low.

Overall, it appears likely that pre-determining which of the three Coconino wells will serve as a downgradient POC well may not be possible at present; and that evaluating the actual pre-shaft hydraulic gradients in the Coconino may not be possible until re-equilibration of the groundwater system has occurred post-closure.

7. REFERENCES

- Duffield, G.M., 2007. AQTESOLV for Windows Version 4.5 User's Guide: HydroSOLVE, Inc., Reston, VA.
- Hydro Geo Chem, Inc. (HGC). 2020. Energy Fuels Resources (USA) Inc. Application to Consolidate Existing Environmental Protections in an Individual Aquifer Protection Permit for the Pinyon Plain Mine. November 11, 2020.
- Lee, H. and B. C. Haimson. 2004. Borehole Breakouts and Compaction Bands in a Medium Porosity, Quartz-Rich Sandstone. 2004AGUFM T41F1307L.
- Ma, Xiaodong and B. C. Haimson. 2015. The Role of the Intermediate Principal Stress in the Brittle-Ductile Transition of Porous Sandstones. EGU General Assembly 2015. Geophysical Research Abstracts Vol. 17, EGU2015-6914-1.
- Ma, Xiaodong and B. C. Haimson. 2016. Failure Characteristics of Two Porous Sandstones Subjected to True Axial Stresses. J. Geophys Res. Solid Earth. 121, 6477-6498, doi 10.1002/2016JB12979.

8. LIMITATIONS

The information and conclusions presented in this report are based upon the scope of services and information obtained through the performance of the services, as agreed upon by HGC and the party for whom this report was originally prepared. Results of any investigations, tests, or findings presented in this report apply solely to conditions existing at the time HGC's investigative work was performed and are inherently based on and limited to the available data and the extent of the investigation activities. No representation, warranty, or guarantee, express or implied, is intended or given. HGC makes no representation as to the accuracy or completeness of any information provided by other parties not under contract to HGC to the extent that HGC relied upon that information. This report is expressly for the sole and exclusive use of the party for whom this report was originally prepared and for the particular purpose that it was intended. Reuse of this report, or any portion thereof, for other than its intended purpose, or if modified, or if used by third parties, shall be at the sole risk of the user.

TABLES

**TABLE 1
Pumping Test Hydraulic Parameter Estimates**

Pumped Well	Solution	T (ft ² /day)	S	Specific Yield	b (ft)	Kh (ft/day)	Comment
East	Moench Unconfined	6.83	0.037	0.109	133	0.051	
East	Cooper-Jacob Unconfined	10.1	0.021	NA	133	0.076	
North	Moench Unconfined	17.2	1.0E-04	0.001	138	0.124	S and Sy low for unconfined conditions
North	Cooper-Jacob Unconfined	19.9	2.77E-04	NA	138	0.144	S low for unconfined conditions
South	Moench Unconfined	3.29	0.071	0.109	168	0.020	
South	Cooper-Jacob Unconfined	4.54	0.103	NA	168	0.027	

Notes:

- T = Transmissivity
- S = Storage coefficient
- Sy = Specific yield (Moench solution only)
- Kh = horizontal hydraulic conductivity in feet per day (ft/day) calculated as T/b
- b = Saturated thickness in feet
- ft²/day = feet squared per day

TABLE 2
Well Survey Data

Well	Easting (feet)	Northing (feet)	Measuring Point Elevation (feet amsl)
East	647228.47	1776854.16	6509.58
North	646712.92	1777100.00	6513.46
South	646747.04	1776371.54	6502.03
¹ USGS	646657	1776201	6495.5

Notes:

¹ USGS well location and elevation approximate
feet amsl = feet above mean sea level

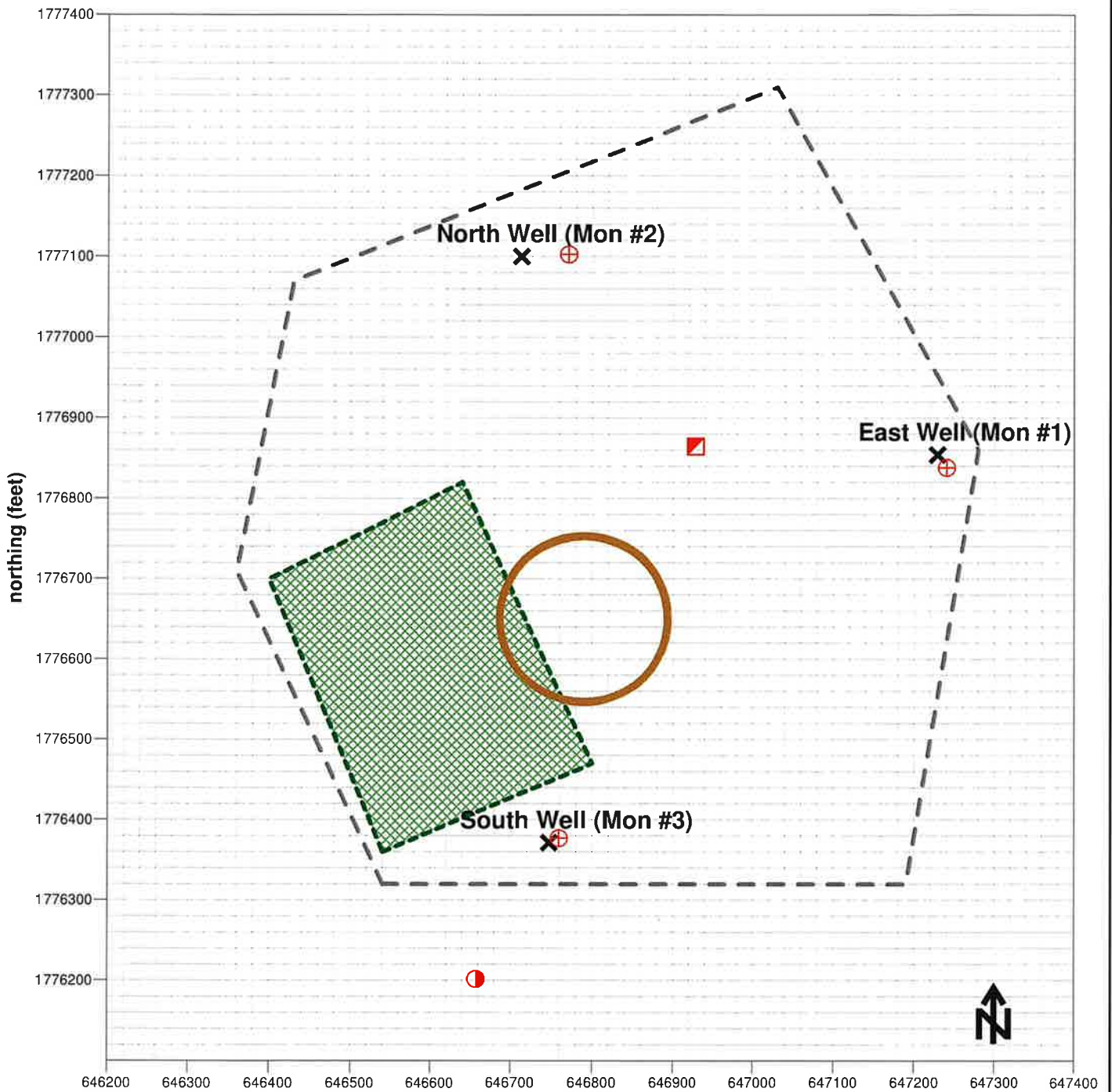
**TABLE 3
Coconino Monitoring Well
Groundwater Elevations**

Date	East Well	North Well	South Well	¹ USGS
11/12/2020	5524.39	5527.39	5546.46	5551.00
3/18/2021	5518.73	5526.31	5545.68	5550.00
5/11/2021	5517.58	5526.26	5545.46	5549.50
9/2/2021	5519.78	5525.46	5545.23	5549.75
12/9/2021	5515.58	5525.46	5545.33	5549.50
3/2/2022	5514.78	5525.11	5543.63	5549.25




Notes:

¹ USGS water level elevations approximate





FIGURES

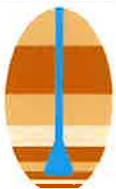


EXPLANATION

-  approximate fenceline
-  approximate footprint of lined non-stormwater pond
-  approximate footprint of breccia pipe

easting (feet)

-  approximate location of shaft
-  base of new perched Coconino well
-  new perched Coconino wellhead
-  approximate location of USGS perched Coconino well



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**SITE SCHEMATIC
PINYON PLAIN MINE**

APPROVED

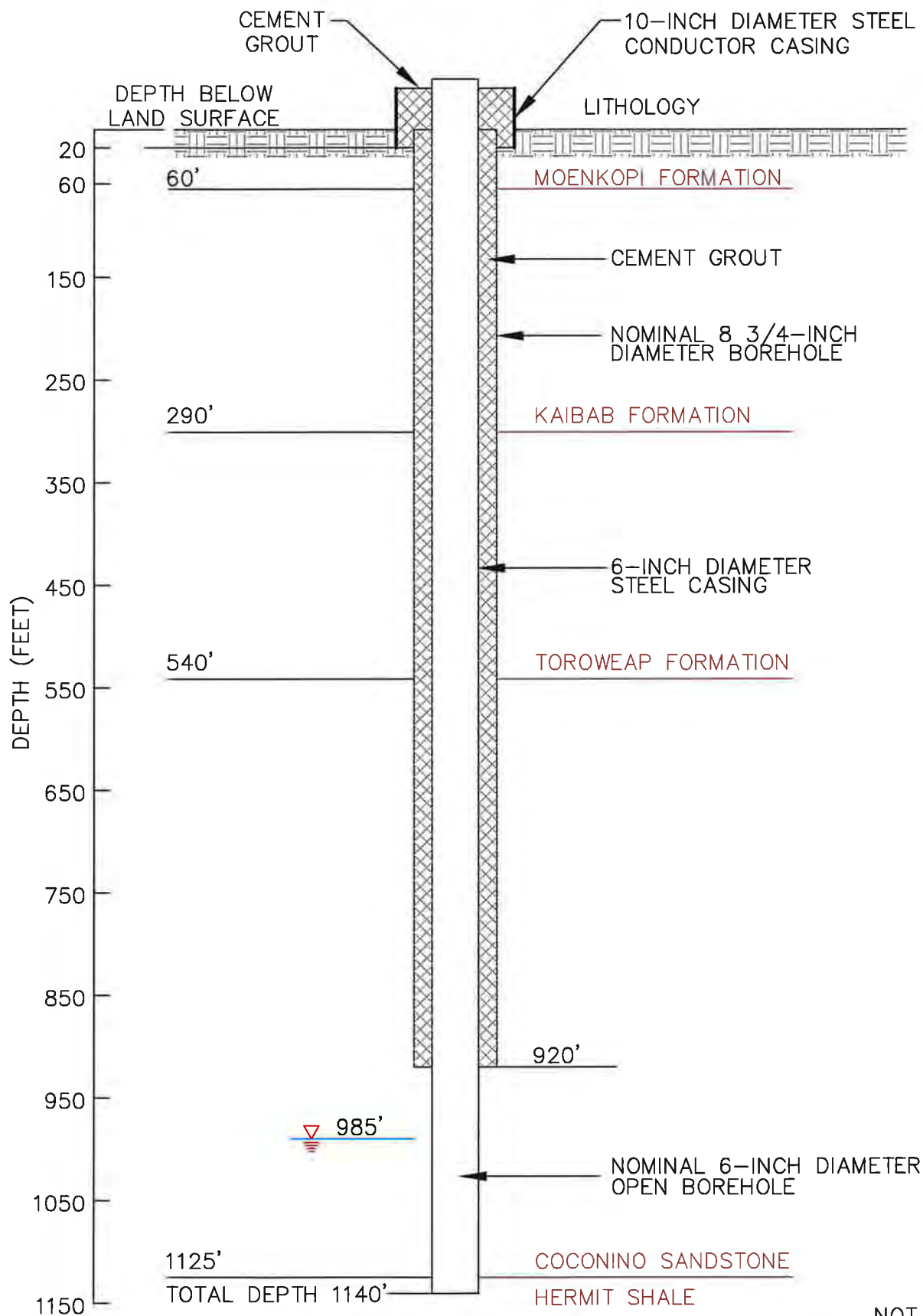
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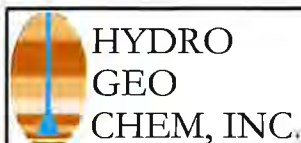
H:/7181000/2020/perched_well_installations/
report/figures/sitemap_rev1.srf

FIGURE

1

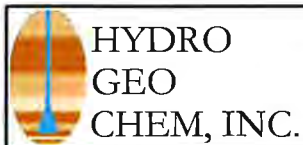
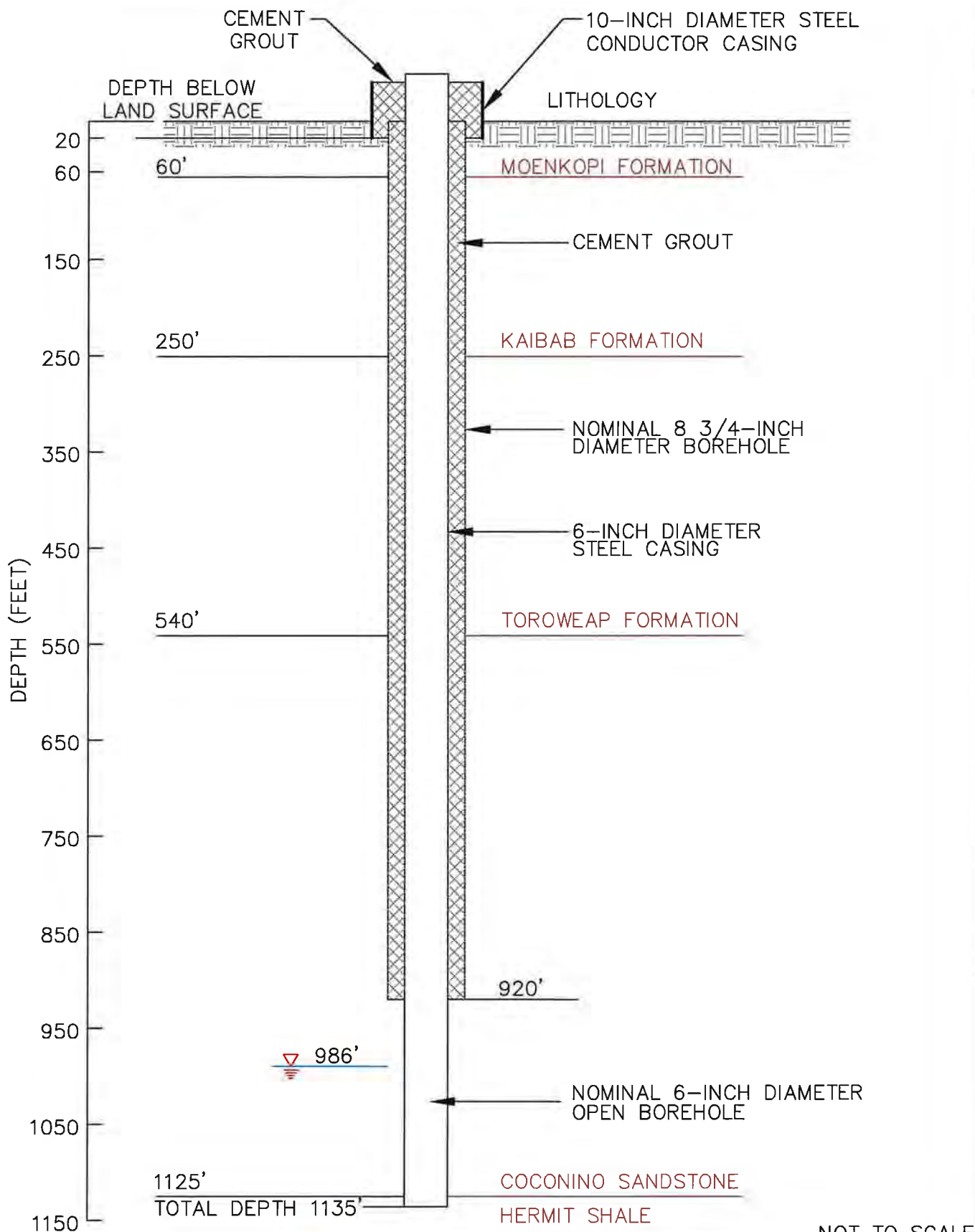


NOT TO SCALE



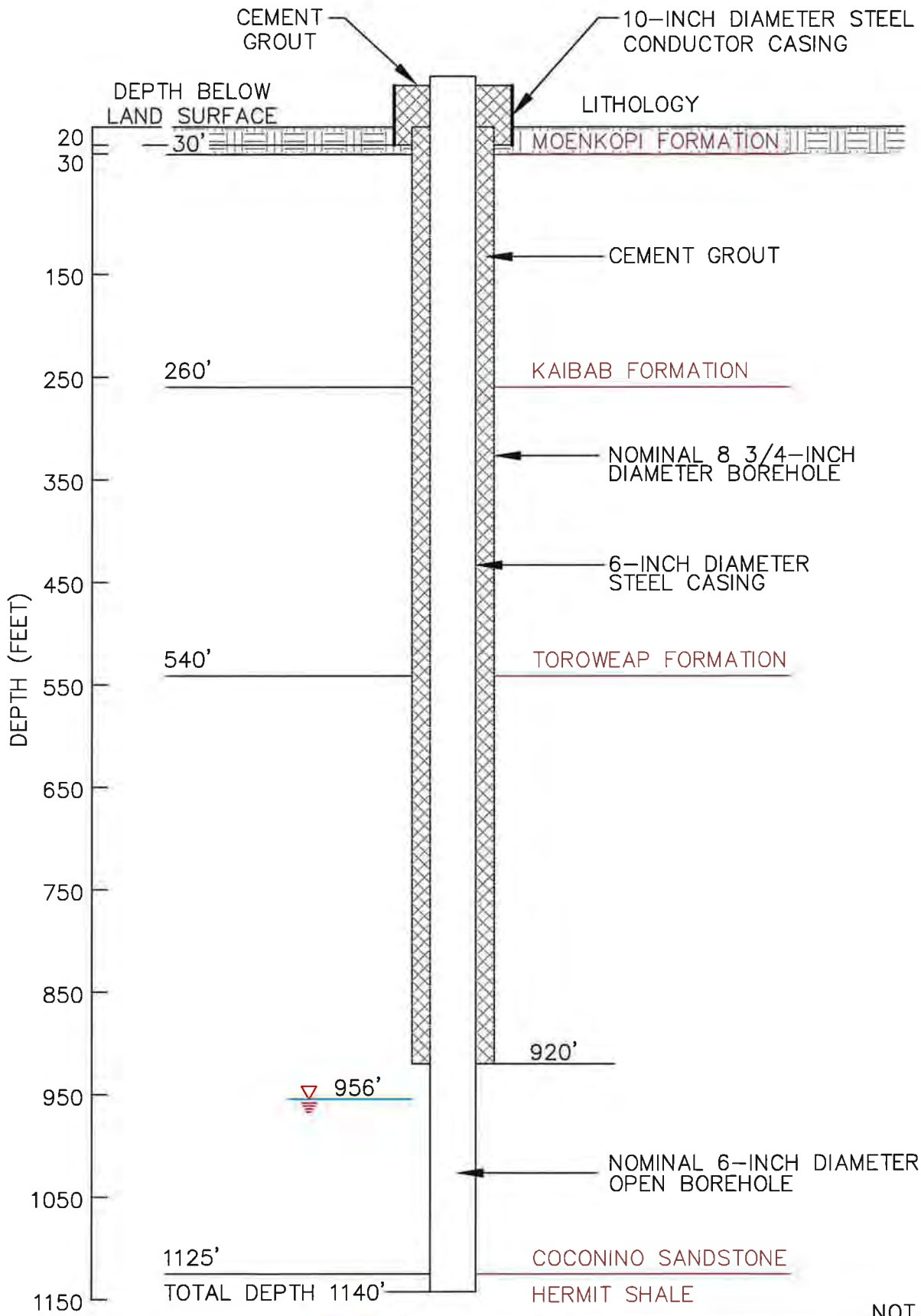
**EAST COCONINO WELL CONSTRUCTION DIAGRAM
PINYON PLAIN MINE SITE**

Approved	Date	Author	Date	File Name	Figure
SJS	03/05/21	JAA	03/05/21	7180295A	2

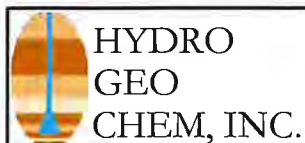


**NORTH COCONINO WELL CONSTRUCTION DIAGRAM
PINYON PLAIN MINE SITE**

Approved	Date	Author	Date	File Name	Figure
SJS	03/05/21	JAA	03/05/21	7180295A	3



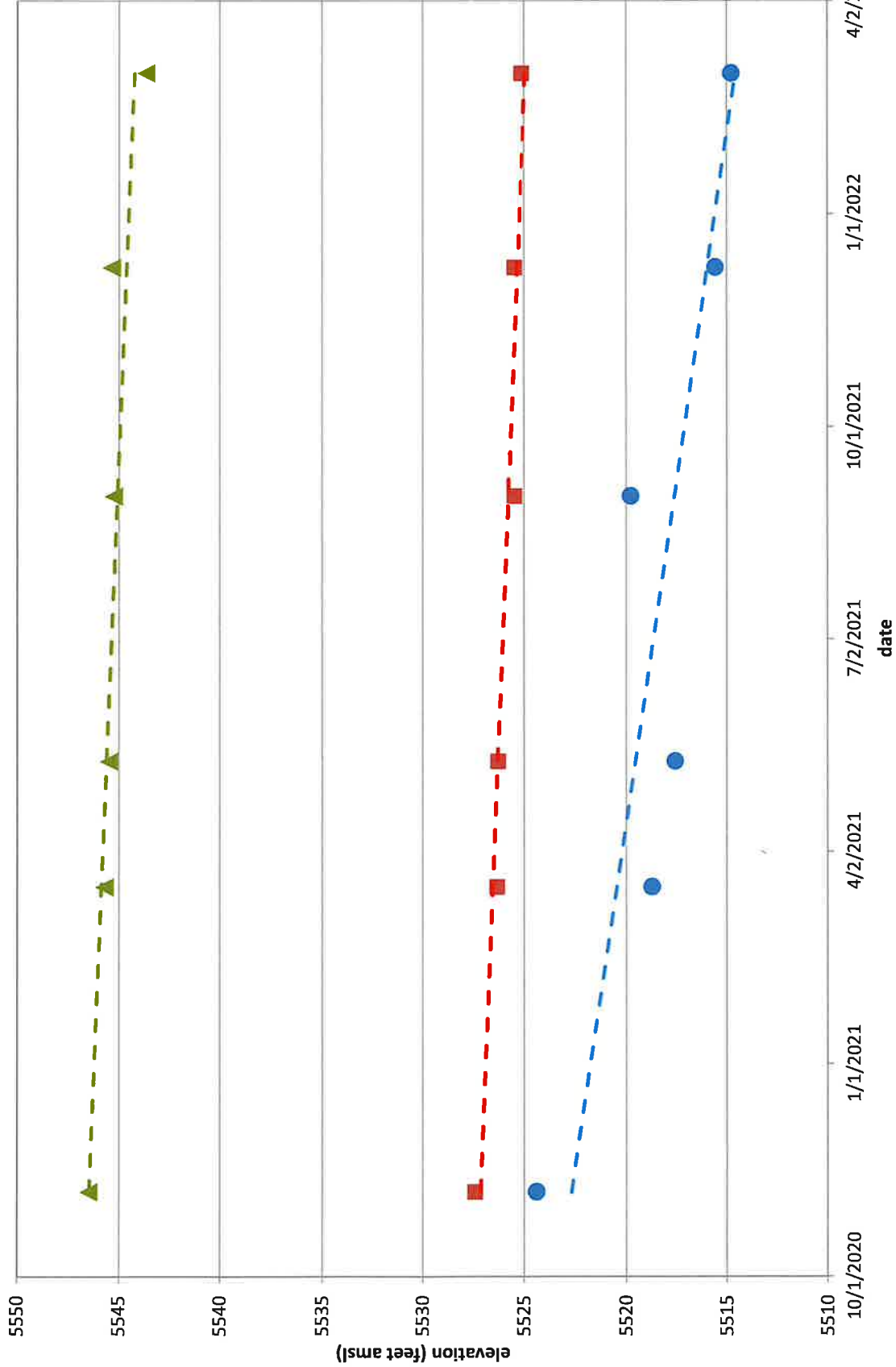
NOT TO SCALE



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**SOUTH COCONINO WELL CONSTRUCTION DIAGRAM
PINYON PLAIN MINE SITE**

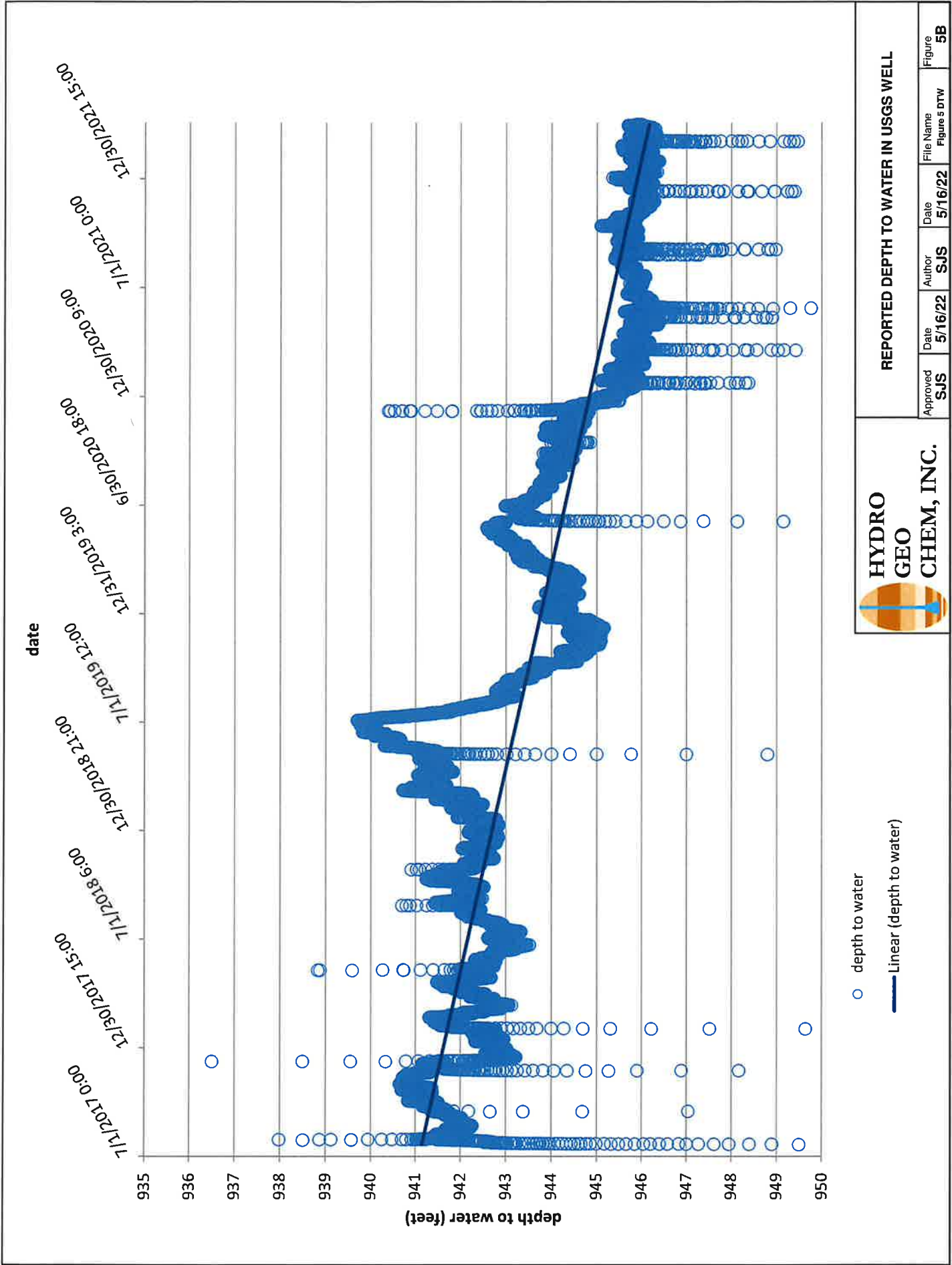
Approved	Date	Author	Date	File Name	Figure
SJS	03/05/21	JAA	03/05/21	7180295A	4



● East Well
 ■ North Well
 ▲ South Well
--- Linear (East Well)
 --- Linear (North Well)
 --- Linear (South Well)

Coconino Well Water Levels

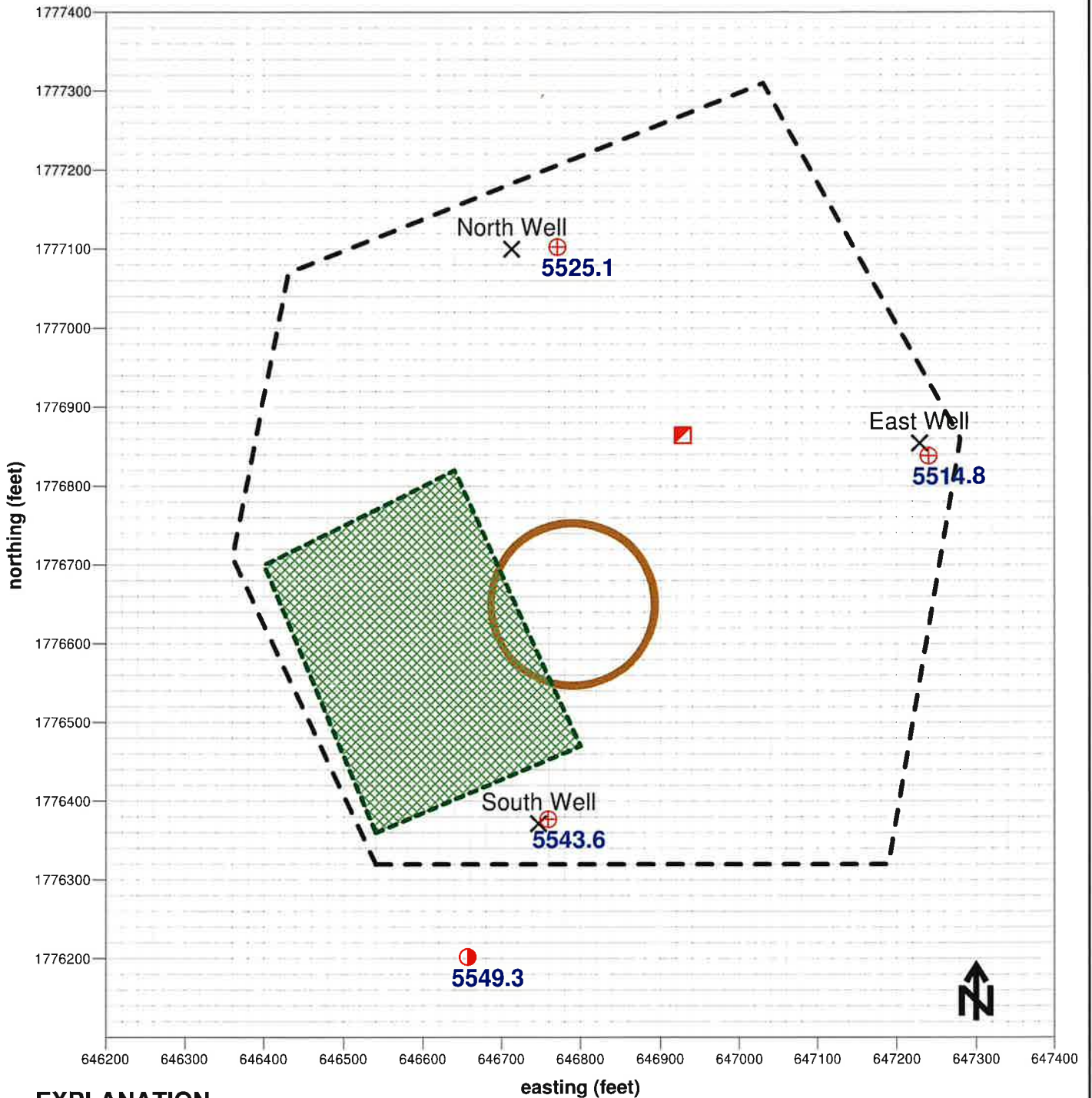
Approved	Author	Date	File Name	Figure
SJS	SJS	5/17/22	Figure 5A	5A










○ depth to water
 — Linear (depth to water)

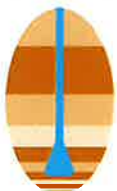
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REPORTED DEPTH TO WATER IN USGS WELL			
Approved	Date	Author	Date
SJS	5/16/22	SJS	5/16/22
File Name			Figure
Figure 5 DTW			5B



EXPLANATION

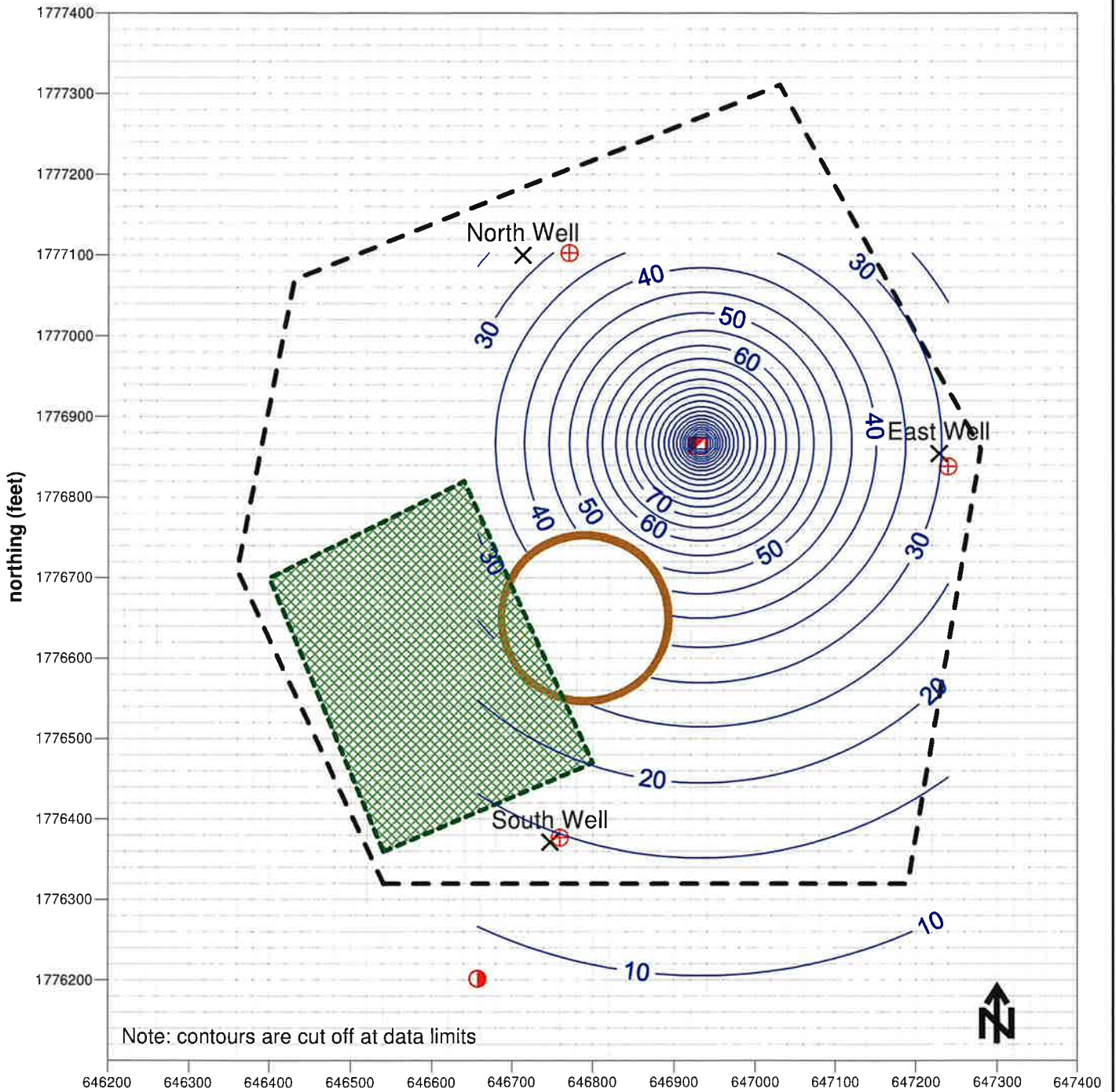
-  approximate fenceline
-  approximate footprint of lined non-stormwater pond
-  approximate footprint of breccia pipe
-  approximate location of shaft
-  5525.1 base of new perched Coconino well showing perched groundwater elevation in feet amsl
-  new perched Coconino wellhead
-  5549.3 approximate location of USGS perched Coconino well showing perched groundwater elevation in feet amsl



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**PERCHED COCONINO GROUNDWATER LEVELS
1st QUARTER, 2022
PINYON PLAIN MINE**

APPROVED	DATE	REFERENCE H:/7181000/2020/perched_well_installations/ report/figures/WLcoconino1Q22.srf	FIGURE 6
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Note: contours are cut off at data limits

EXPLANATION

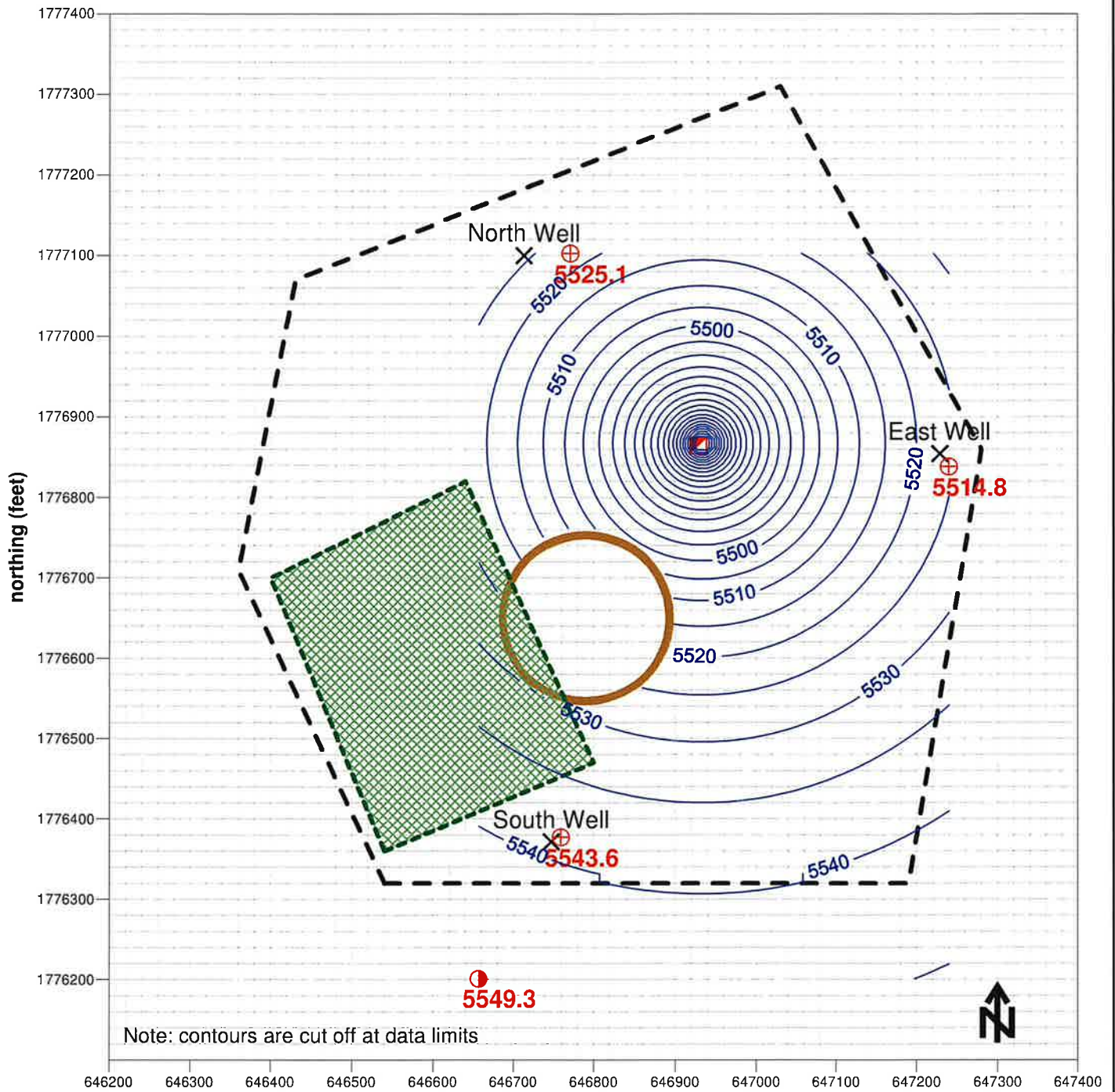
-  approximate fence line
-  approximate footprint of lined non-stormwater pond
-  approximate footprint of breccia pipe
-  approximate location of shaft
-  base of new perched Coconino well
-  new perched Coconino wellhead
-  approximate location of USGS perched Coconino well



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**AQTESOLVE SIMULATED DRAWDOWN IN FEET
RESULTING FROM SHAFT SEEPAGE
PINYON PLAIN MINE**

APPROVED	DATE	REFERENCE H:/7181000/2020/perched_well_installations/ report/figures/SimDDaqtesolve5yr_1Q22r1.srf	FIGURE 7
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Note: contours are cut off at data limits

EXPLANATION

-  approximate fence line
-  approximate footprint of lined non-stormwater pond
-  approximate footprint of breccia pipe

easting (feet)

-  approximate location of shaft
-  5525.1 base of new perched Coconino well showing perched groundwater elevation in feet amsl
-  new perched Coconino wellhead
-  5549.3 approximate location of USGS perched Coconino well showing perched groundwater elevation in feet amsl



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**AQTESOLVE SIMULATED
WATER LEVEL CONTOURS (in feet amsl)
ASSUMING SYMMETRICAL CONE OF DEPRESSION
PINYON PLAIN MINE**

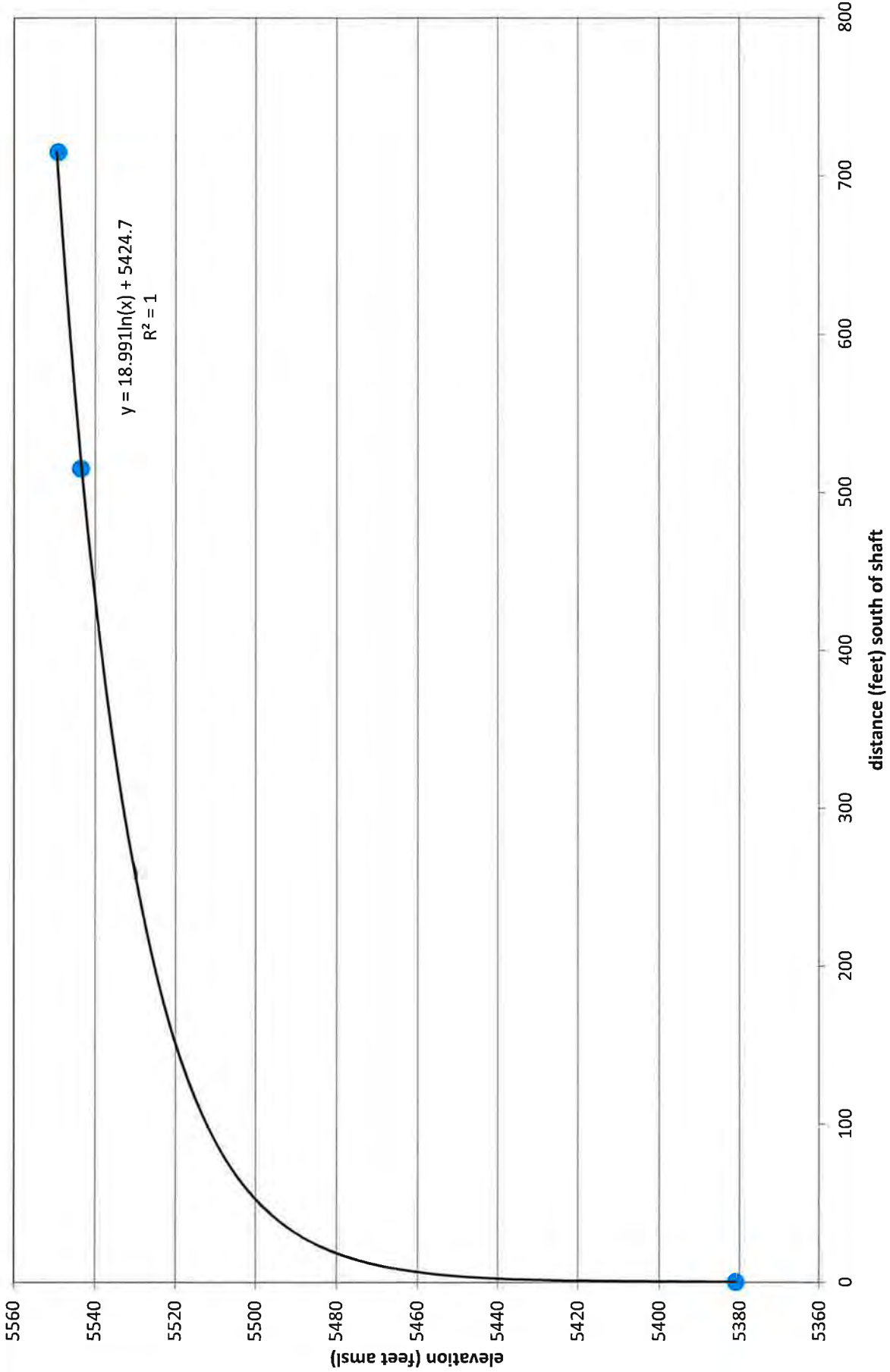
APPROVED

DATE

REFERENCE

FIGURE

H:/7181000/2020/perched_well_installations/
report/figures/SimWLaqtesolve5yr_1Q22r1.srf



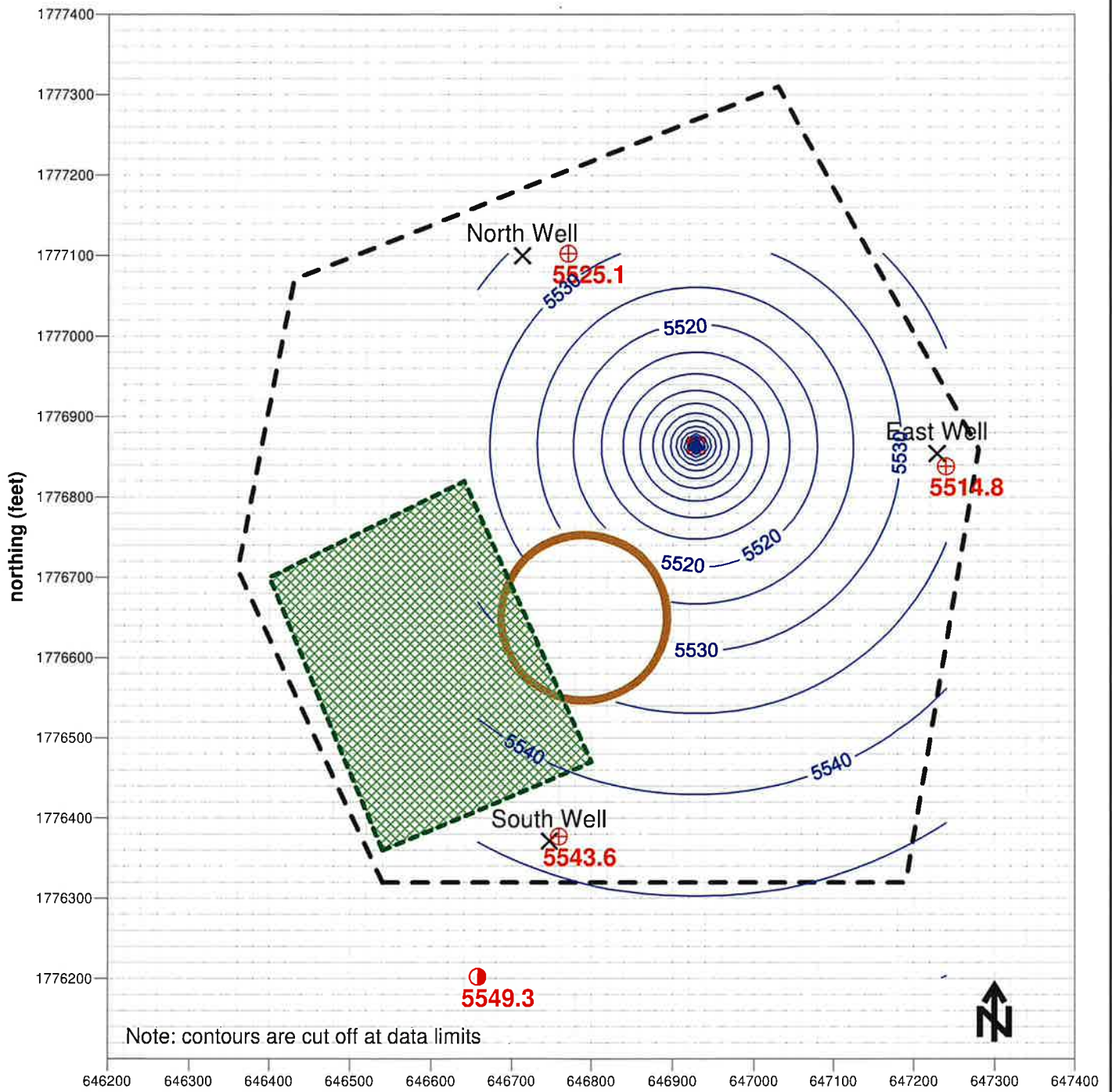
● south data

— Log. (south data)






LOGARITHMIC FIT TO
SOUTHERN WATER LEVEL DATA





Approved	Date	Author	Date	File Name
SJS	5/16/22	SJS	5/16/22	Figure 9



EXPLANATION

-  approximate fenceline
-  approximate footprint of lined non-stormwater pond
-  approximate footprint of breccia pipe

easting (feet)

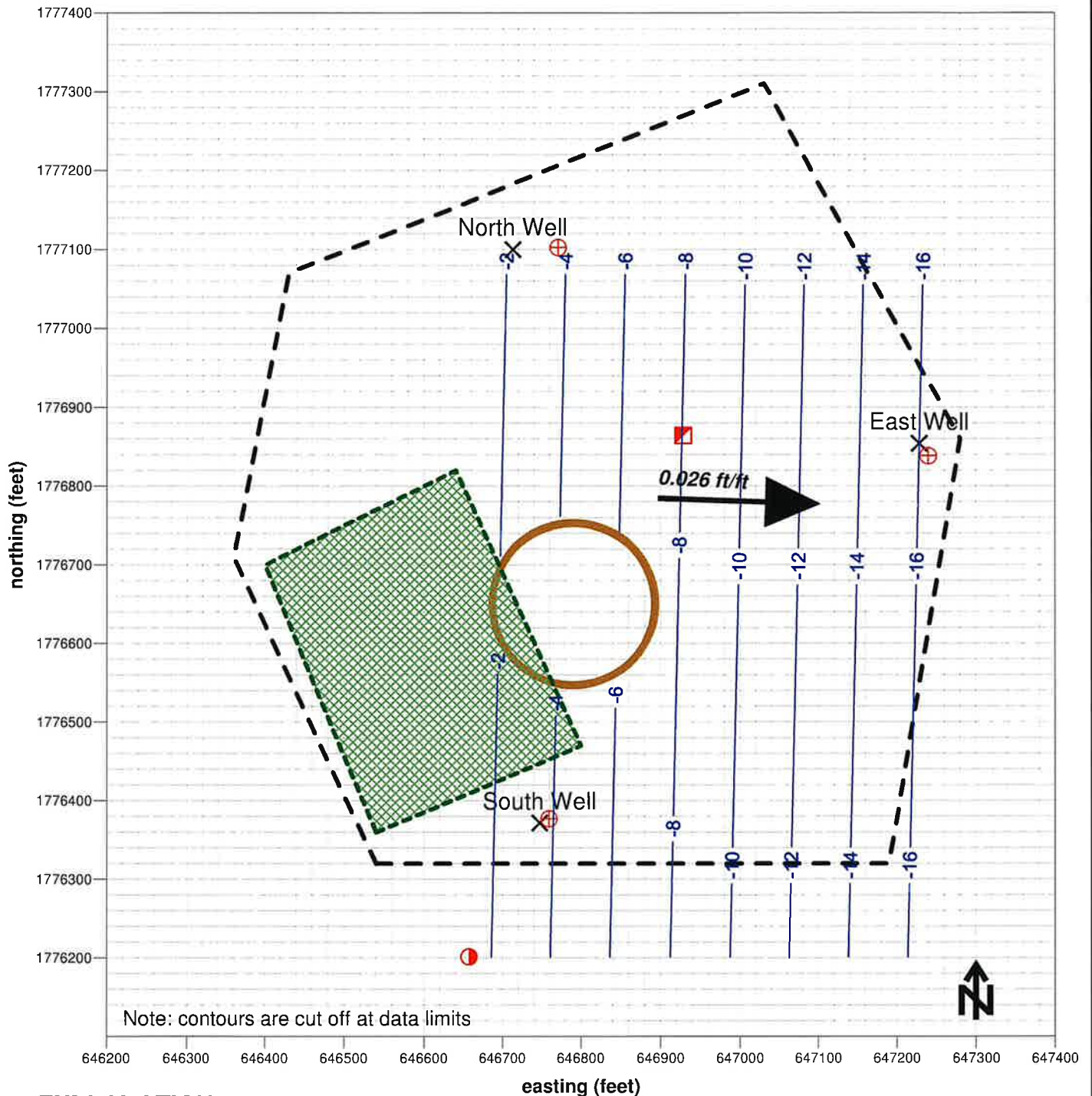
-  approximate location of shaft
-  5525.1 base of new perched Coconino well showing perched groundwater elevation in feet amsl
-  new perched Coconino wellhead
-  5549.3 approximate location of USGS perched Coconino well showing perched groundwater elevation in feet amsl






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**SIMULATED WATER LEVELS (in feet amsl)
BASED ON LOG FUNCTION BEST FIT TO
SOUTHERN WATER LEVELS
PINYON PLAIN MINE**

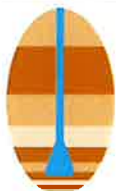
APPROVED	DATE	REFERENCE	FIGURE
		H:/7181000/2020/perched_well_installations/report/figures/SimWLFuncSwl_1Q22r1.srf	10



EXPLANATION

-  approximate fenceline
-  approximate footprint of lined non-stormwater pond
-  approximate footprint of breccia pipe

-  approximate location of shaft
-  base of new perched Coconino well
-  new perched Coconino wellhead
-  approximate location of USGS perched Coconino well



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**'RESIDUAL' WATER LEVEL PLANE (in feet)
BASED ON DIFFERENCE BETWEEN AQTESOLVE
SIMULATED AND MEASURED WATER LEVELS
PINYON PLAIN MINE**

APPROVED

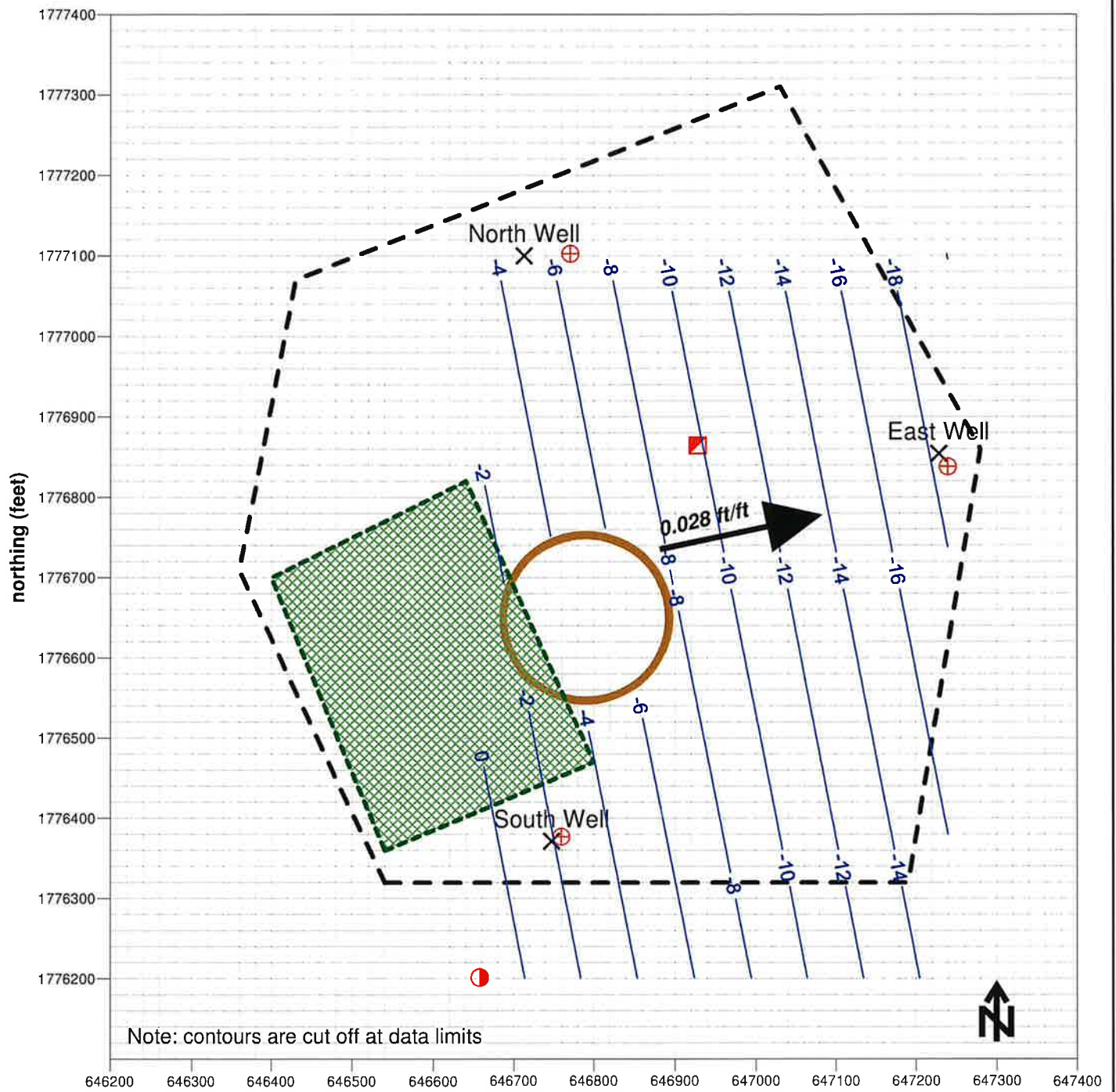
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REFERENCE




H:/7181000/2020/perched_well_installations/
report/figures/SimResidWLaqtedolve_1Q22r1.srf

FIGURE





11

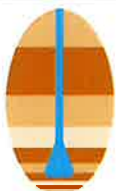


EXPLANATION

-  approximate fenceline
-  approximate footprint of lined non-stormwater pond
-  approximate footprint of breccia pipe

easting (feet)

-  approximate location of shaft
-  base of new perched Coconino well
-  new perched Coconino wellhead
-  approximate location of USGS perched Coconino well



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**'RESIDUAL' WATER LEVEL PLANE (in feet)
BASED ON DIFFERENCE BETWEEN BEST FIT LOG
FUNCTION SIMULATED AND MEASURED WATER LEVELS
PINYON PLAIN MINE**

APPROVED

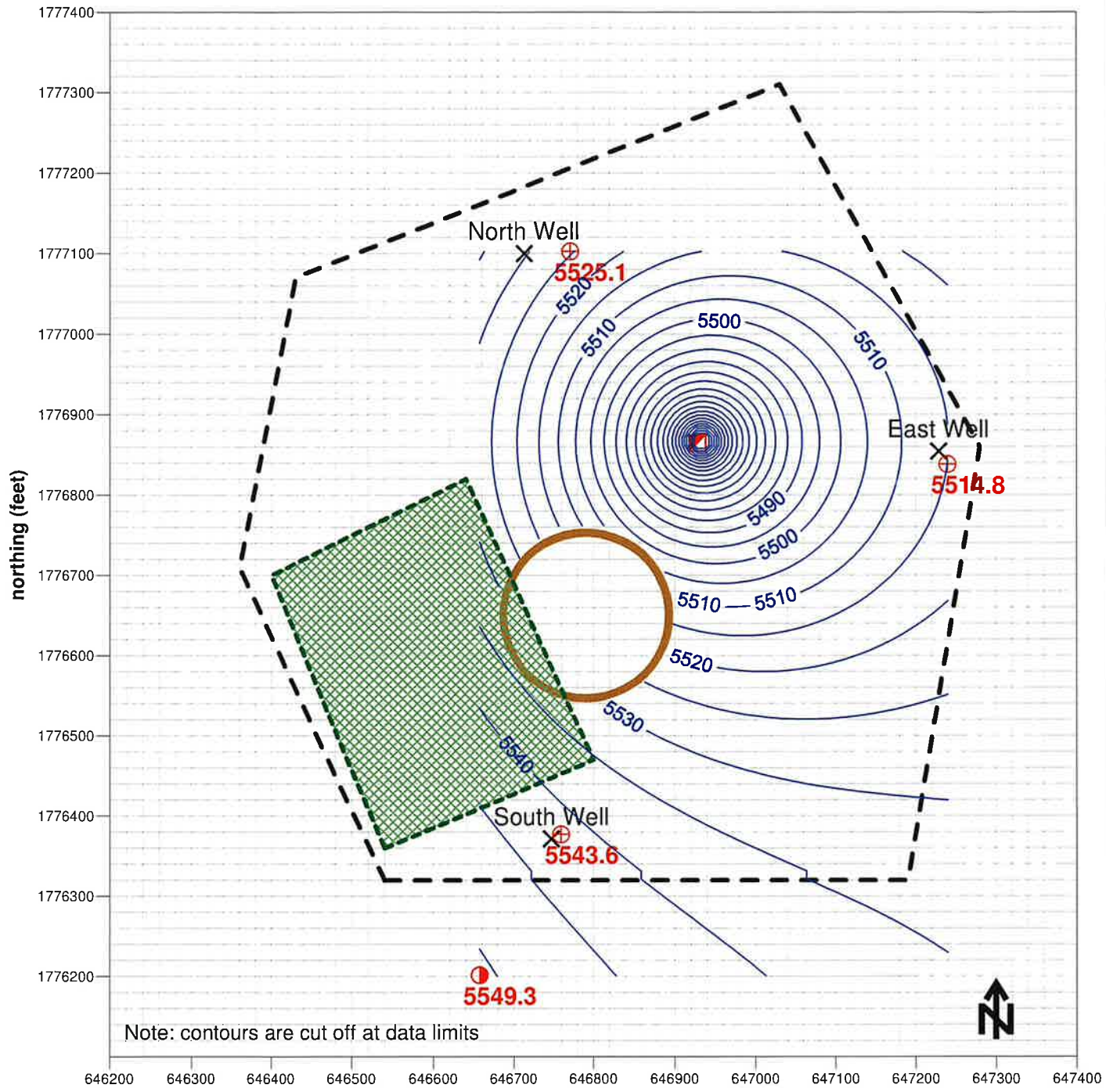
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REFERENCE

H:/7181000/2020/perched_well_installations/
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FIGURE

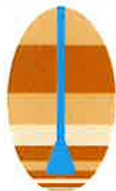
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Note: contours are cut off at data limits

EXPLANATION

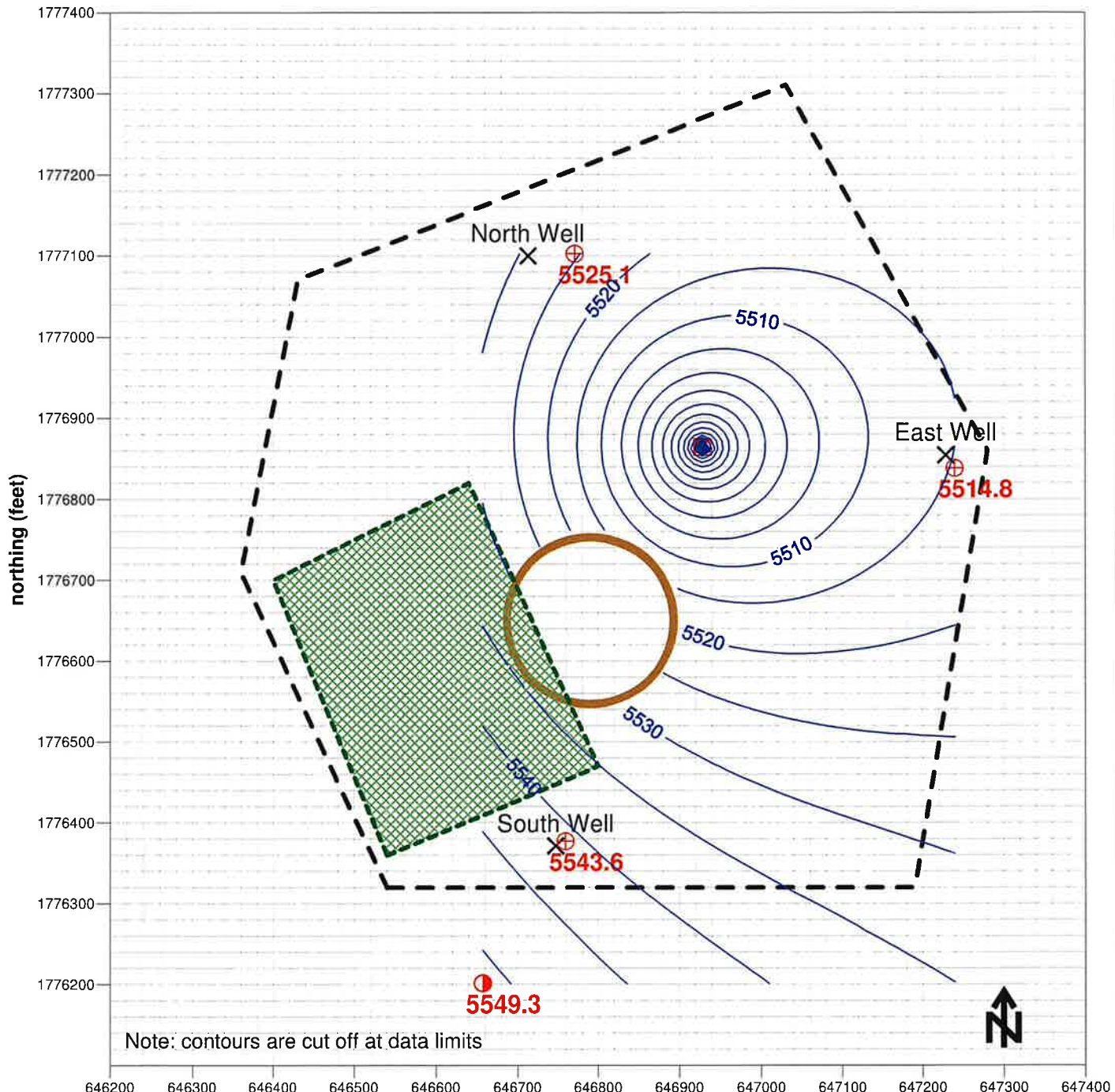
-  approximate fenceline
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-  approximate footprint of breccia pipe
-  approximate location of shaft
-  5525.1 base of new perched Coconino well showing perched groundwater elevation in feet amsl
-  new perched Coconino wellhead
-  5549.3 approximate location of USGS perched Coconino well showing perched groundwater elevation in feet amsl



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**RESULTANT WATER LEVEL CONTOUR MAP (ft amsl)
BASED ON AQTESOLVE SIMULATED WATER LEVELS
AND RESIDUAL PLANE
PINYON PLAIN MINE**

APPROVED	DATE	REFERENCE	H:/7181000/2020/ perched_well_installations/report/figures/ SimWLresultantAQT5yr_1Q22r1.srf	FIGURE	13
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Note: contours are cut off at data limits

EXPLANATION

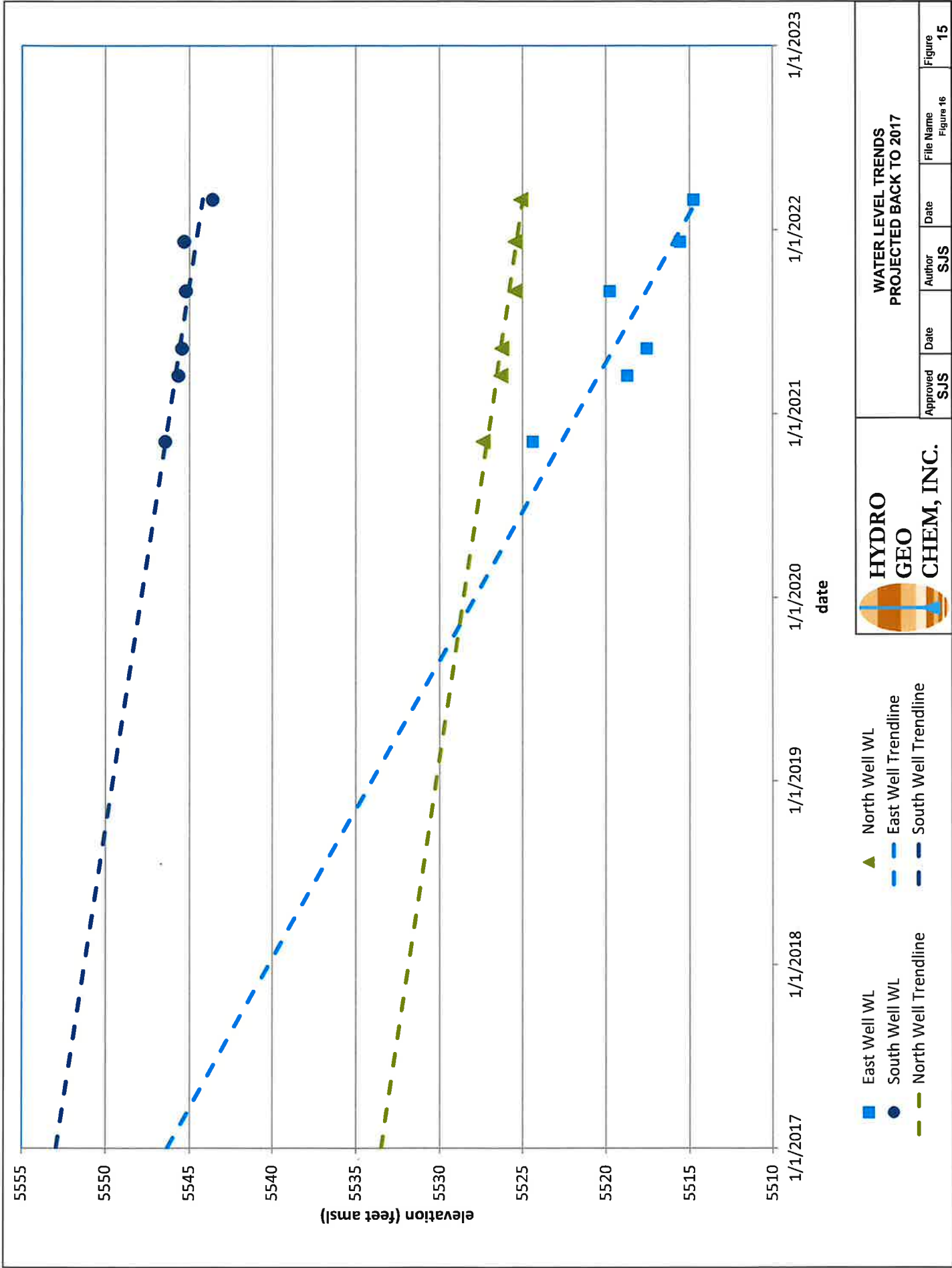
-  approximate fenceline
-  approximate footprint of lined non-stormwater pond
-  approximate footprint of breccia pipe
-  approximate location of shaft
-  5525.1 base of new perched Coconino well showing perched groundwater elevation in feet amsl
-  new perched Coconino wellhead
-  5549.3 approximate location of USGS perched Coconino well showing perched groundwater elevation in feet amsl



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**RESULTANT WATER LEVEL CONTOUR MAP (ft amsl)
BASED ON BEST FIT LOG FUNCTION SIMULATED
WATER LEVELS AND RESIDUAL PLANE
PINYON PLAIN MINE**

APPROVED	DATE	REFERENCE	FIGURE
		H:\7181000\2020\perched_well_installations/ report/figures/SimWLresultantLnFunc5yr_1Q22r1.srf	14



East Well WL
 South Well WL
 North Well Trendline
 North Well WL
 East Well Trendline
 South Well Trendline

Approved: SJS
 Author: SJS
 Date: 1/1/2022
 File Name: Figure 16
 Figure: 15

H:\1718100.00 Pinyon Mine AZ\2020\perched_well_installations\Report\figures\Figure 15_1Q22.xlsx: Figure 15

APPENDIX A.1

LITHOLOGIC AND GEOPHYSICAL LOGS

Project: Canyon
 Drill Hole ID: CAN-MOM-01
 Start Date: 9/8/2020
 Driller: RT - Drill Tech

Location: Canyon Mine - East Well
 Geologist: M. Germansen
 Complete Date: 9/21/2020
 Drilling Equipment: 50k




Total Depth: 1140
 Page: 2 of 4

Depth	Run #/Core Recovery	Field Screening Results (CPS)	Core Box - Top/Bottom	Rock Quality Determination (RQD)	Sample Location/Identifier	Lithology	Graphic Log	Lithologic Unit	Notes
250					Pk	140-290 PK Karbab Reduced Sndy L.S. w/diss. Sulfides		Pk	
300					Pt	290-315 slty L.S. Pt DK gy		Pt	
350					Pt	315-430 ft Lt Gy slty S.S.		Pt	
400									
450					Pt	430-470: Intbdd Sndy slt-st. med. gy to lt. brown		Pt	
500						slty S.S. lt gy 470-520 ft		Pt	

Start Date: 7/8/2020
 Driller: Drill Tech
 Project: Canyon

Complete Date: 9/21/2020
 Drilling Equipment: Sok
 Canyon Mine - East Well

 ENERGY FUELS
 Total Depth: 1140
 Page: 3 of 4

Depth	Run #/Core Recovery	Field Screening Results (CPS)	Core Box - Top/Bottom	Rock Quality Determination (RQD)	Sample Location/Identifier	Lithology	Graphic Log	Lithologic Unit	Notes
500						470-520': silty S.S.		Pt	
					520-540	PC? of Pt? cont. sample should be silty sand Pt - Buff color		Pt	
550						540-940 - PC Coconino S.S. oxidized, barren with local evidence of limonite/hematite on bedding from 850-880'		PC	
650						* faintly reduced from 880-940 * after 940 - more visibly reduced			
750									
850									
950						940-1125 - Reduced PC		PC	

Start Date: 7/8/2020

Complete Date: 9/21/2020



Driller: Drill Tech

Drilling Equipment: 50 k

Total Depth: 1140

Project: Canyon

Canyon Mine - East Well

Page: 4 of 4

Depth	Run #/Core Recovery	Field Screening Results (CPS)	Core Box - Top/Bottom	Rock Quality Determination (RQD)	Sample Location/Identifier	Lithology	Graphic Log	Lithologic Unit	Notes
950 1000 1050 1100						940-1125 - PC conc s.s. increasingly reduced w/ depth. Visible sulfides on Bedding planes, + occasionally w/i sandstone Sulfides are reduced *lt gy color through reduced zone		PC	
1150						Ph - hermit siltstone Br-Rd, Bleached @ top 1125-1140 TD = 1140'		Ph	

Project: Canyon
 Drill Hole ID: CYN-MON-02
 Start Date: 9/21/2020
 Driller: Drill Tech

Location: Canyon Mine - North Well
 Geologist: M. Germanson
 Complete Date: 10/2/2020
 Drilling Equipment: SOK



Total Depth: 1135
 Page: 1 of 4

Depth	Run #/Core Recovery	Field Screening Results (CPS)	Core Box - Top/Bottom	Rock Quality Determination (RQD)	Sample Location/Identifier	Lithology	Graphic Log	Lithologic Unit	Notes
0						RM - mentropi siltstone Br rd, No Alteration at base 0-25'		RM	
25						25-60' Tan cong. L.S. Rmt? at Top of Pk kaibab		TRmt	
60					PK	60-70 Gy L.S.		PK	
100						70-140 - Br-Tan sandy L.S. Abundant limonite/Gretnite xnts from 80-100', 15% 3-5% from 100-140'		R	
150						140'-210': Gy silty Dolomite - reduced Finegrained silty Dolomitized L.S.		PK	
210						210'-250': oxidized interbedded siltstones Sandy L.S.		PK	

Project: Canyon
 Drill Hole ID: CYN-MON-02
 Start Date: 9/21/2020
 Driller: Drill Tech

Location: Canyon Mine - Northwest
 Geologist: M. Germansen
 Complete Date: 10/2/2020
 Drilling Equipment: 50K



Total Depth: 1135
 Page: 3 of 4

Depth	Run #/Core Recovery	Field Screening Results (CPS)	Core Box - Top/Bottom	Rock Quality Determination (RQD)	Sample Location/Identifier	Lithology	Graphic Log	Lithologic Unit	Notes
500						250-540': interbedded siltstone + sandy L.S.		Pt	
600						540-1125: PC coconino S.S. oxidized to Buff tan		PC	
700						Trace oxidized sulfides 590-630'			
800						Increased sulfides 690'-730'			
900						No Bleaching outside of Noted Zones			
980						6" steel casing placed @ 0-920' grout throughout cuttings below 920'.		PC	
1000						Coconino S.S. is reduced below 980'			
						980-1125 - Reduced PC			

Project: Canyon
 Drill Hole ID: CYN-MON-03
 Start Date: 10/3/2020
 Driller: RT-Drill Tech

Location: Canyon Mine - South Well
 Geologist: M. Germansen
 Complete Date: 10/12/2020
 Drilling Equipment: SOK



Total Depth: 1140
 Page: 7 of 41

Depth	Run #/Core Recovery	Field Screening Results (CPS)	Core Box - Top/Bottom	Rock Quality Determination (RQD)	Sample Location/Identifier	Lithology	Graphic Log	Lithologic Unit	Notes
0						No samples		X X X	
30						PK - sandy L.S. lt tan 30-90 ft.		PK	
100						increased Calcite @ 90-100' int bold tan to lt gy silty sandy L.S., calc. St. No Alteration or mineralization		PK	
150						170-180ft dk gy siltst. layer			
200						Tan to lt brn silt sandy L.S. PK 180-220 ft.		PK	No Samples 220-240 ft
250						No Samples gy silty L.S. 240-260		PK	

Project: Canyon
 Drill Hole ID: 10/3/2020
 Start Date: CYN-MON-03E
 Driller: RT-Drill Tech

Location: Canyon Mine - South Well
 Geologist: M. Germanen
 Complete Date: 10/12/2020
 Drilling Equipment: 50K



Total Depth: 1140
 Page: 2 of 4

Depth	Run #/Core Recovery	Field Screening Results (CPS)	Core Box - Top/Bottom	Rock Quality Determination (RQD)	Sample Location/Identifier	Lithology	Graphic Log	Lithologic Unit	Notes
250						240-260 ft lt gy silty L.S.		Pk	
300						260-550 Pt interbdd snds, silty L.S., sandy L.S. lt. br to lt. gy color		Pt	
350						310-320- heavily dissem sulfides up to 20%			
						350'- visible 1mm sulfides present			
400						highest sulfides seen at 320', 350-360, then less visible down to 410'		Pt	
450						410-460 - NO samples			
500						460-540- intbdd snds + silty L.S. very faint sulfides locally lt gy to med. gy		Pt	

Project: Canyon
 Drill Hole ID: LYN-MON-03
 Start Date: 10/3/2020
 Driller: RT-Drill Tech

Location: Canyon Mine - south Well
 Geologist: M. Germansen
 Complete Date: 10/12/2020
 Drilling Equipment: SO K



Total Depth: 1140
 Page: 3 of 4

Depth	Run #/Core Recovery	Field Screening Results (CPS)	Core Box - Top/Bottom	Rock Quality Determination (RQD)	Sample Location/Identifier	Lithology	Graphic Log	Lithologic Unit	Notes
500						460' - 540' lt gy to med. gy		Pt	
600						540-1125 PC Cocomino Sandstone Fine grained S.S. oxidized to lt tan from 540-870', Bleached or Reduced to from 870-1125'		PC	
700						Visible iron oxides thru @ 590, 720-870'			
800						720-870: Variably oxidized S.S. Blk specks (mang.) @ 770 and 800'			
900						Strong FeO ₂ @ 870' at base of oxidation		PC	
1000						Bleached or Reduced from 870-1125 ft. Sulfides on bedding planes @ 980 ft., 1000 ft. - 2% Sulfides @ 980 ft. Sulfides above + below are Trace			

Project: Canyon
 Drill Hole ID: CYN-MON-03
 Start Date: 10/3/2020
 Driller: RT-Drill tech

Location: Canyon Mine-South well
 Geologist: M. G. Morsen
 Complete Date: 10/12/2020
 Drilling Equipment: Sals



Total Depth: 1140
 Page: 4 of 4

Depth	Run #/Core Recovery	Field Screening Results (CPS)	Core Box -- Top/Bottom	Rock Quality Determination (RQD)	Sample Location/Identifier	Lithology	Graphic Log	Lithologic Unit	Notes
1000						PC - calcareous S.S. Bleached/Reduced - wht/lt gy down to 1125 ft.		PC	
1050									
1100						PC Ph - hermit siltstone Pink bleached 1125 - 1130 Br-Rd 1130 - 1140			
1150									
						TD 1140 ft.			



Geolog, LLC
 P.O. Box 2571 Cottonwood AZ. 86326
 (928) 899-6491
 ccatalano@geologaz.com

TYPE of LOGS Caliper

Date 09-22-20

SYSTEM NAME

CLIENT	Energy Fuel Resources	CALIPER	
WELL ID	Well #1		
PROJECT	Canyon Mine		
COUNTY	Cococino	STATE	Arizona
LOCATION	N 35 deg 53 min 0.30sec W 112 deg 05 min 41.34 sec	OTHER SERVICES	Caliper Elogs, SP, Gamma, Fluid Some Bond
SEC	TWP	RGE	

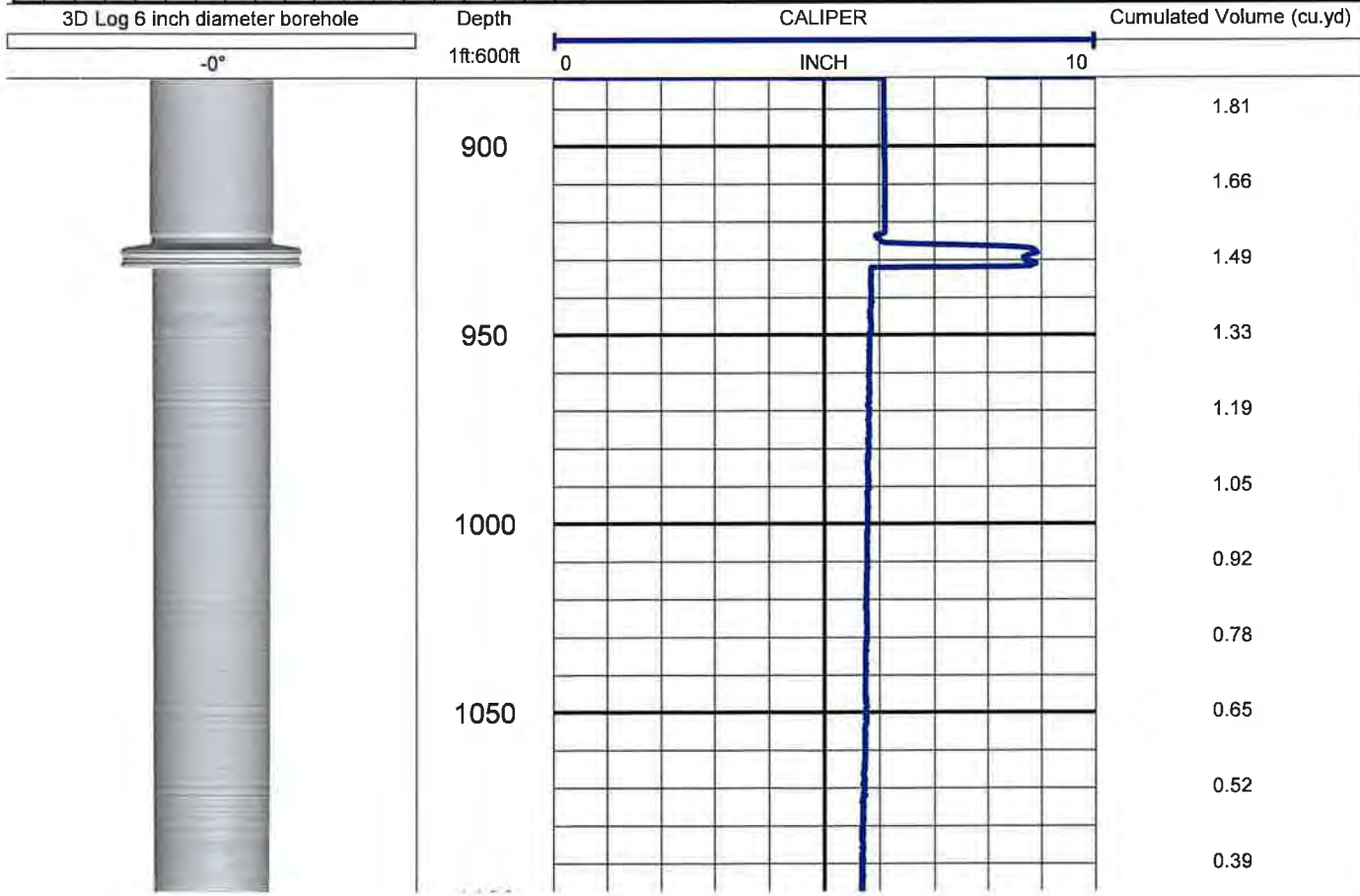
PERMANENT DATUM Ground Level ELEVATION G.L. 6506 ft-amsl K.B.

GS MEAS. FROM Ground Level SURFACE CONDUCTOR 925 ft-bgl D.F.

ILLING MEAS. FROM Ground Level G.L.

DATE	09-22-20	TYPE FLUID IN HOLE	Water
N No	3	RES MUD	
ILL TYPE	Monitor	RES MUD FILTRATE	
PTH-DRILLER	1,145 ft-bgl	RES WALL CAKE	
PTH-LOGGER	1,148 ft-bgl	MAX. REC. TEMP.	
IDTIVES	N/A		
CTYPE	Hammer		
ILLING METHOD	Direct Air Rotary		
CORDED BY	Alan Gregorski		
TNESSED BY	Energy Fuels Resources		

N	Logging Tools Used / Century System VI	CASING RECORD / BIT RECORD
	TOOL S/N FROM TO	SIZE WGT FROM TO
N 1	Elogs, SP, Gam, Dev 0 1,148 ft-bgl	0
N 2	Sonic Bond 0 920 ft-bgl	
N 3	Caliper 8850 ft-bgl 1,148 ft-bgl	
N 4		
N 5		SHOP
N 6		

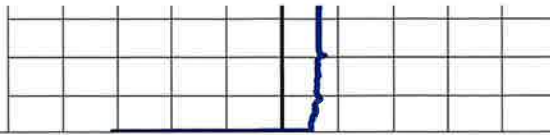




-0°

1150

1ft:600ft



0.13

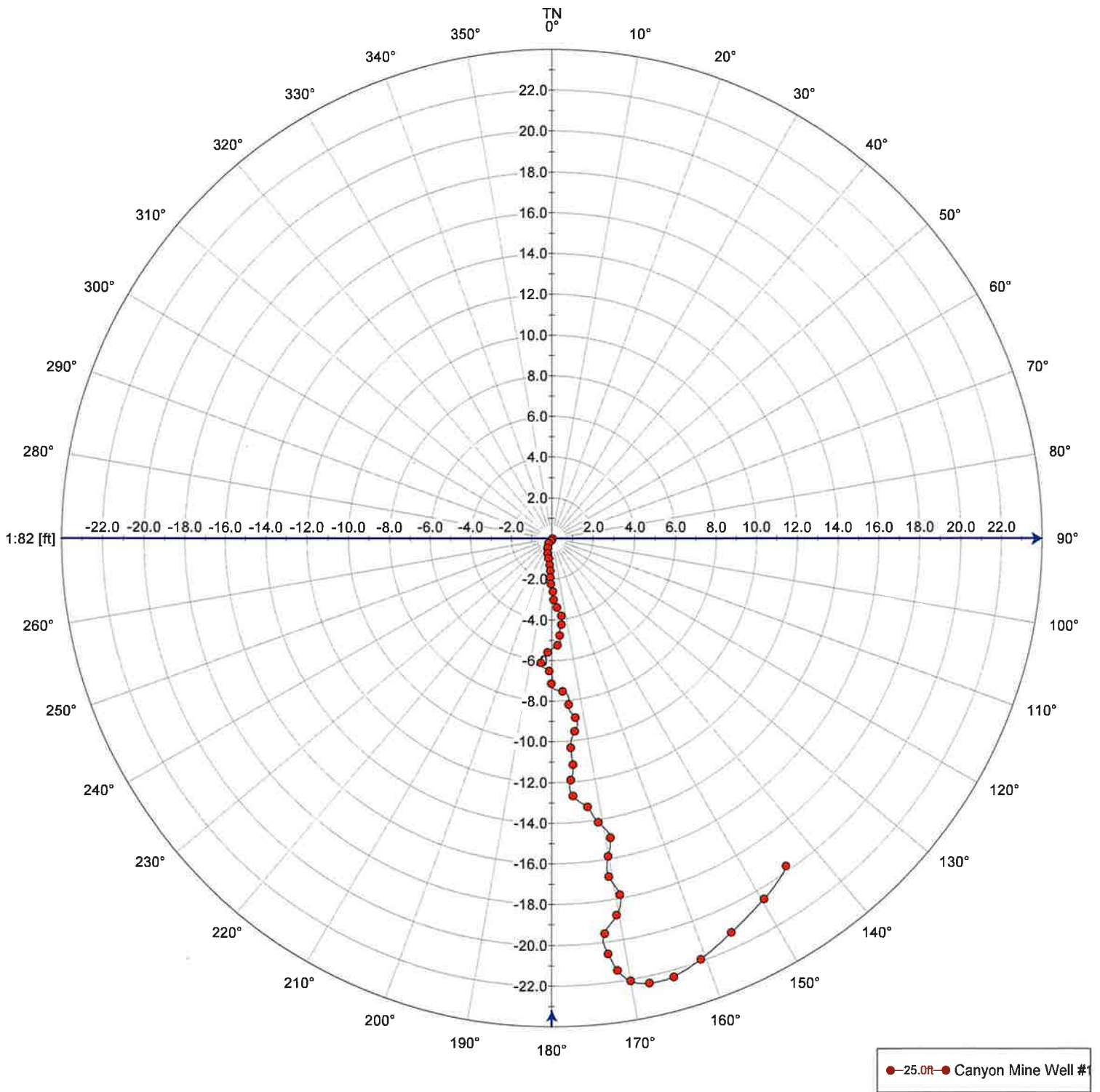
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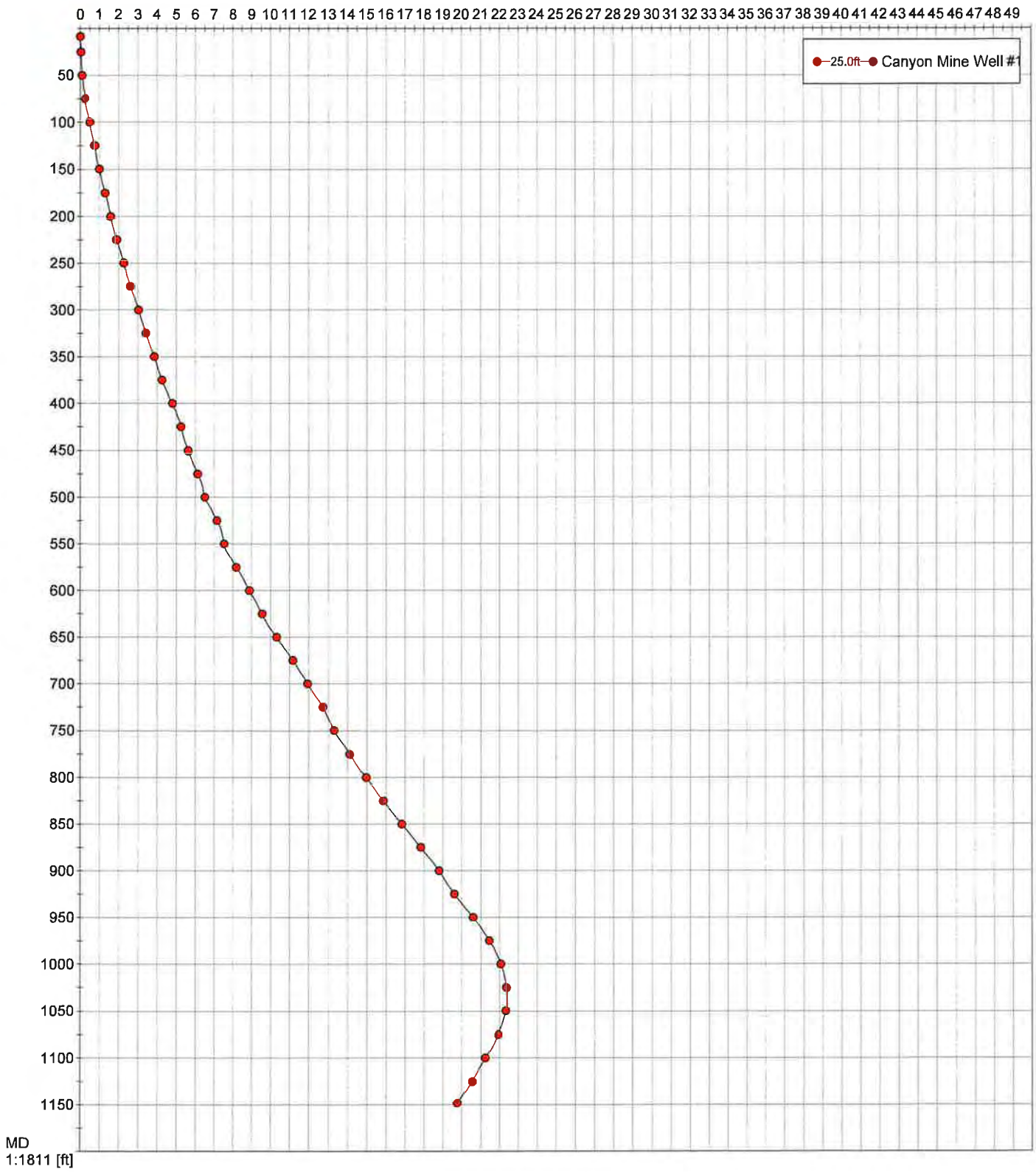
3D Log 6 inch diameter borehole

Depth

CALIPER

Cumulated Volume (cu.yd)





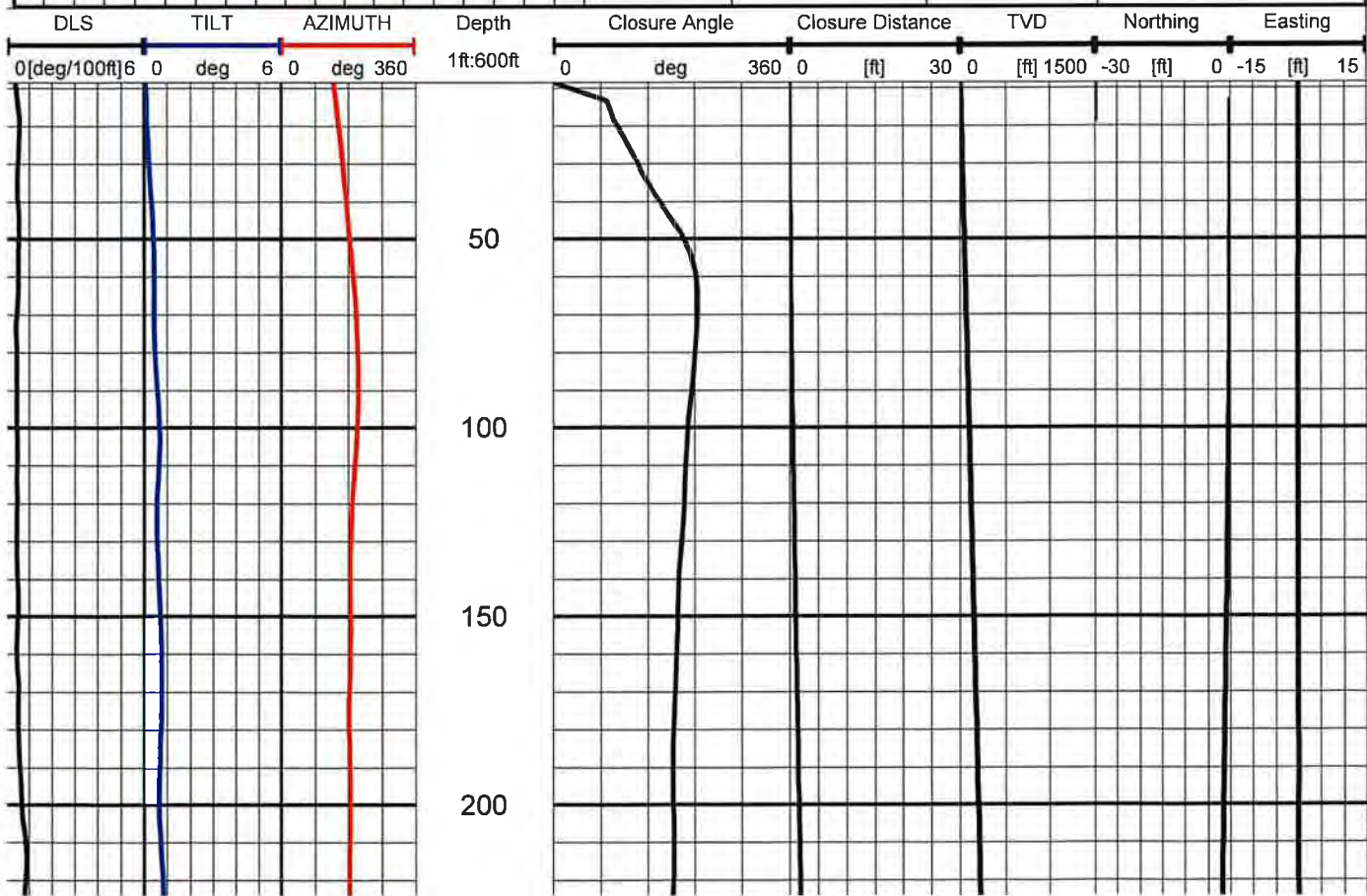


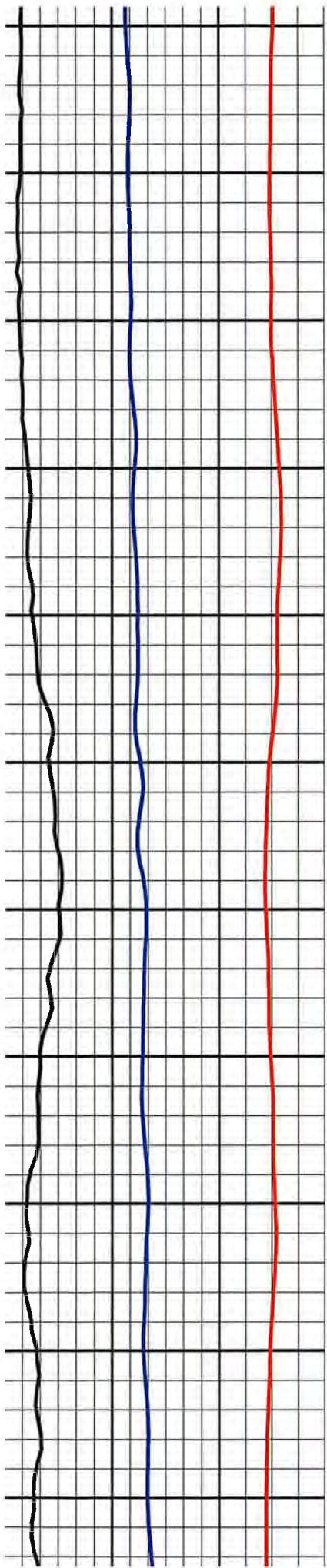
Geolog, LLC
 P.O. Box 2571 Cottonwood AZ. 86326
 (928) 899-6491
 ccatalano@geologaz.com

CLIENT	Energy Fuel Resources	MAGNETIC DEVIATION
WELL ID	Well #1	
PROJECT	Canyon Mine	
COUNTY	Cocconino	STATE
		Arizona
LOCATION	N 35 deg 53 min 0.30sec W 112 deg 05 min 41.34 sec	OTHER SERVICES Caliper Elogs, SP, Gamma, Fluid Sonic Bond
SEC	TWP	RGE

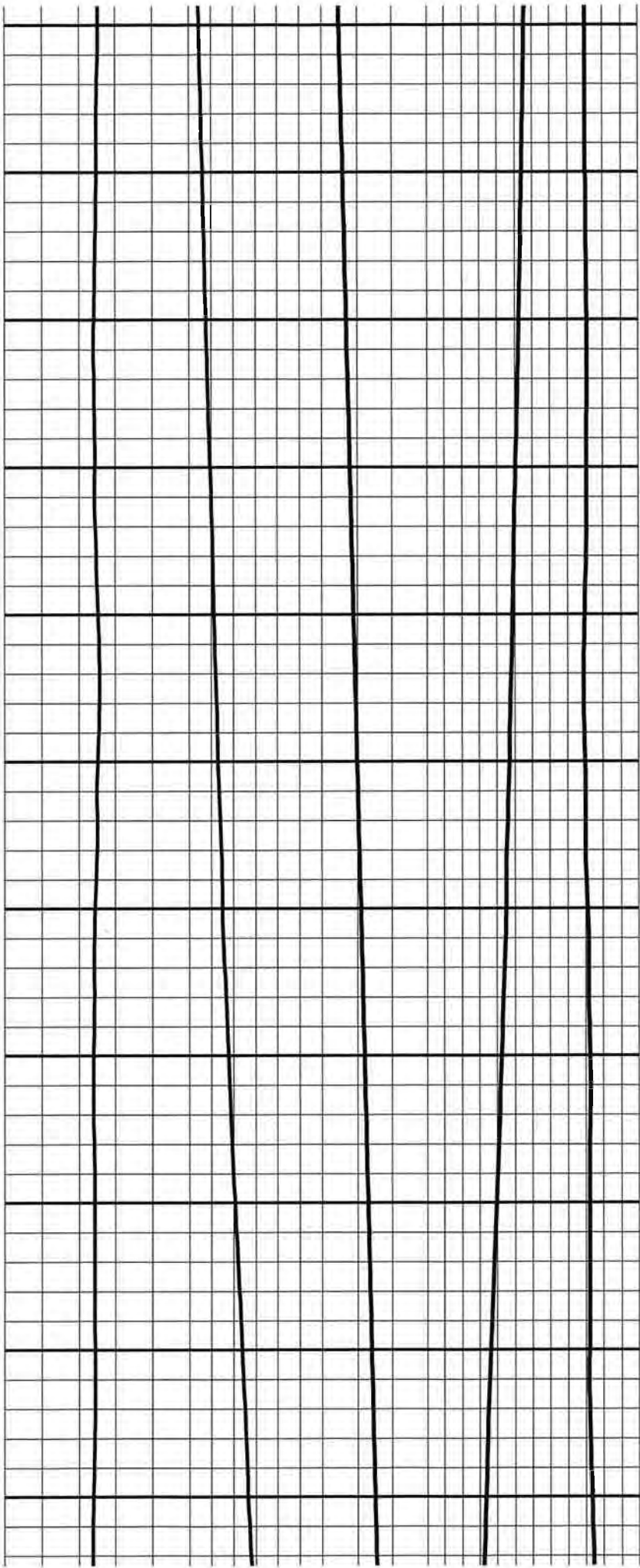
PERMANENT DATUM	Ground Level	ELEVATION G.L.	6506 ft-amsl	K.B.
GS MEAS. FROM	Ground Level	SURFACE CONDUCTOR	925 ft-bgl	D.F.
ILLING MEAS. FROM	Ground Level			G.L.
DATE	09-22-20	TYPE FLUID IN HOLE		Water
N No	1	RES MUD		
ILL TYPE	Monitor	RES MUD FILTRATE		
PTH-DRILLER	1,145 ft-bgl	RES WALL CAKE		
PTH-LOGGER	1,148 ft-bgl	MAX REC. TEMP.		
IDTIVES	N/A			
ILLING METHOD	Hammer			
CORDED BY	Direct Air Rotary			
TNESSED BY	Alan Gregorski			
	Energy Fuels Resources			

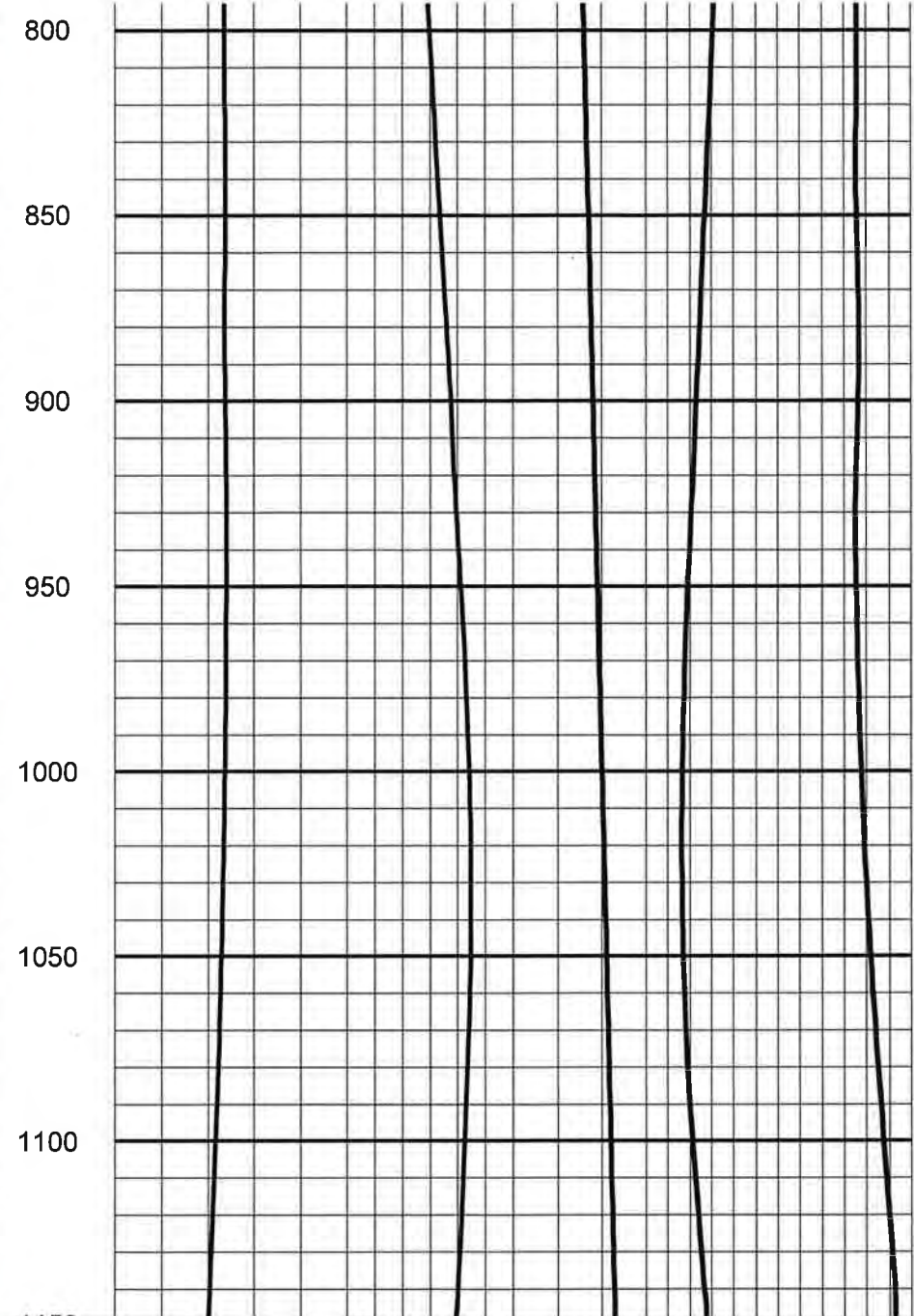
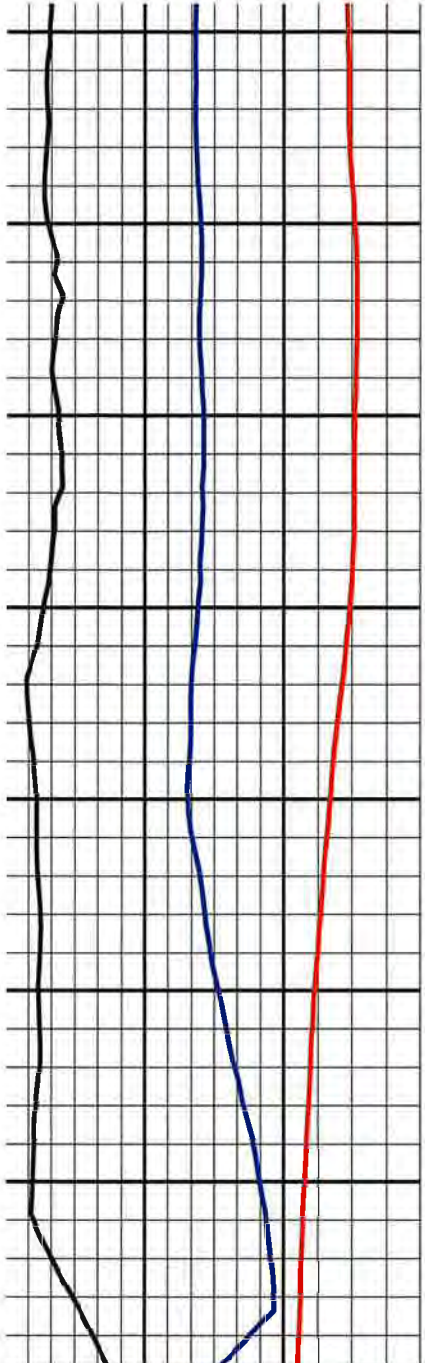
N	Logging Tools Used / Century System VI	CASING RECORD / BIT RECORD					
1.	TOOL S/N	FROM	TO	SIZE	WGT	FROM	TO
N1	Elogs, SP, Gamma, Dev	0		1,148 ft-bgl		0	
N2	Sonic Bond	0		920 ft-bgl			
N3	Caliper	880 ft-bgl		1,148 ft-bgl			
N4							
N5				SHOP			
N6							





250
300
350
400
450
500
550
600
650
700
750





0 [deg/100ft] 6 0 deg 6 0 deg 360 1ft:600ft Depth 0 deg 360 0 [ft] 30 0 [ft] 1500 -30 [ft] 0 -15 [ft] 15

DLS TILT AZIMUTH Closure Angle Closure Distance TVD Northing Easting



Geolog, LLC
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 (928) 899-6491
 ccatalano@geologaz.com

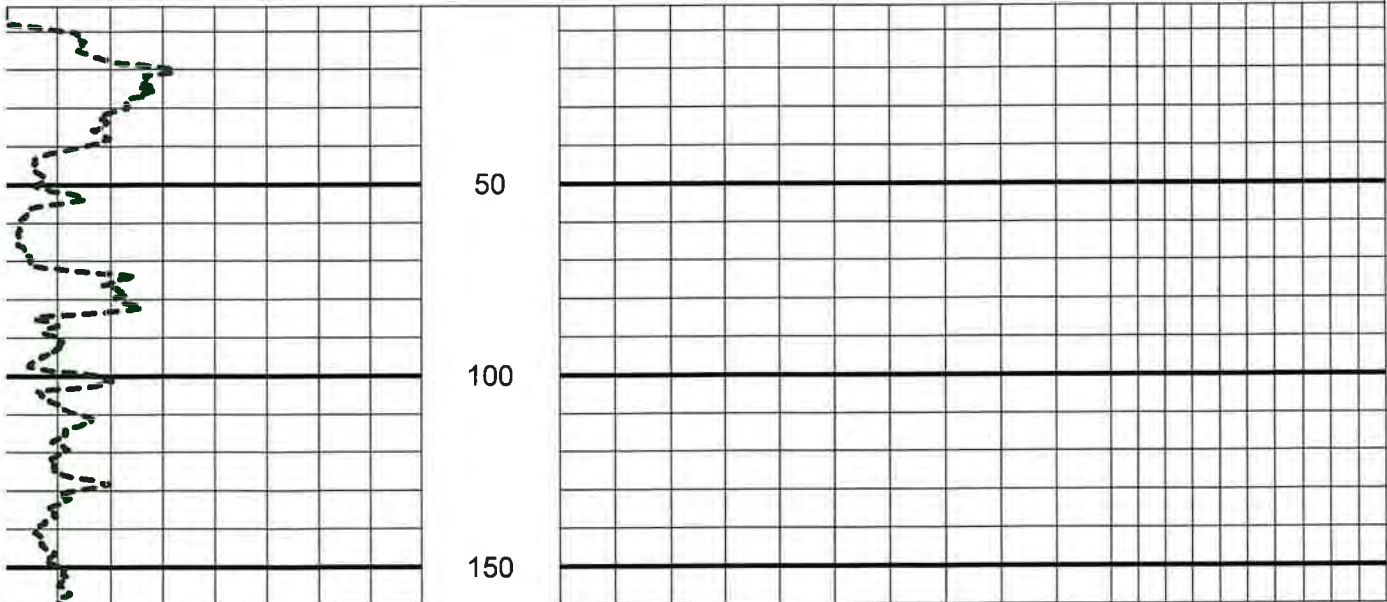
TYPE of LOGS Elogs,SP,Gamma

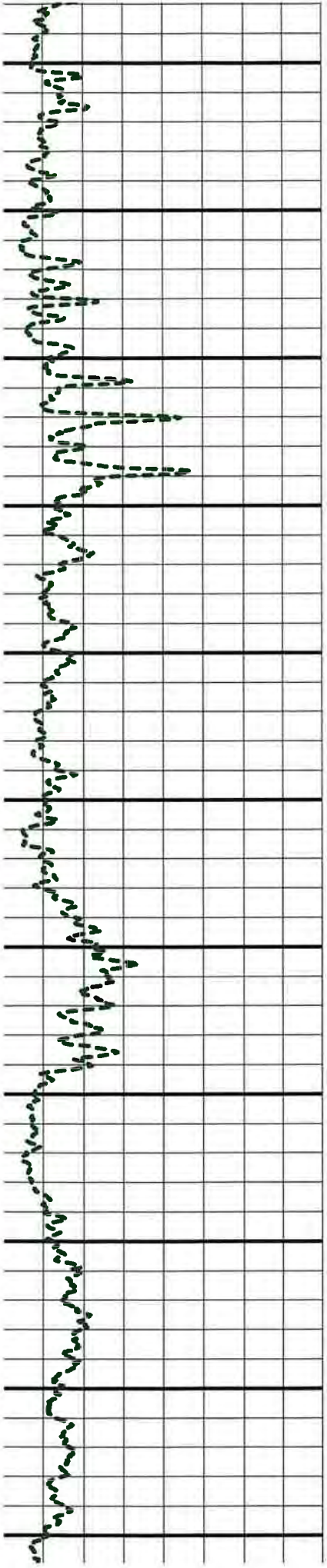
Date 09-22-20

SYSTEM NAME

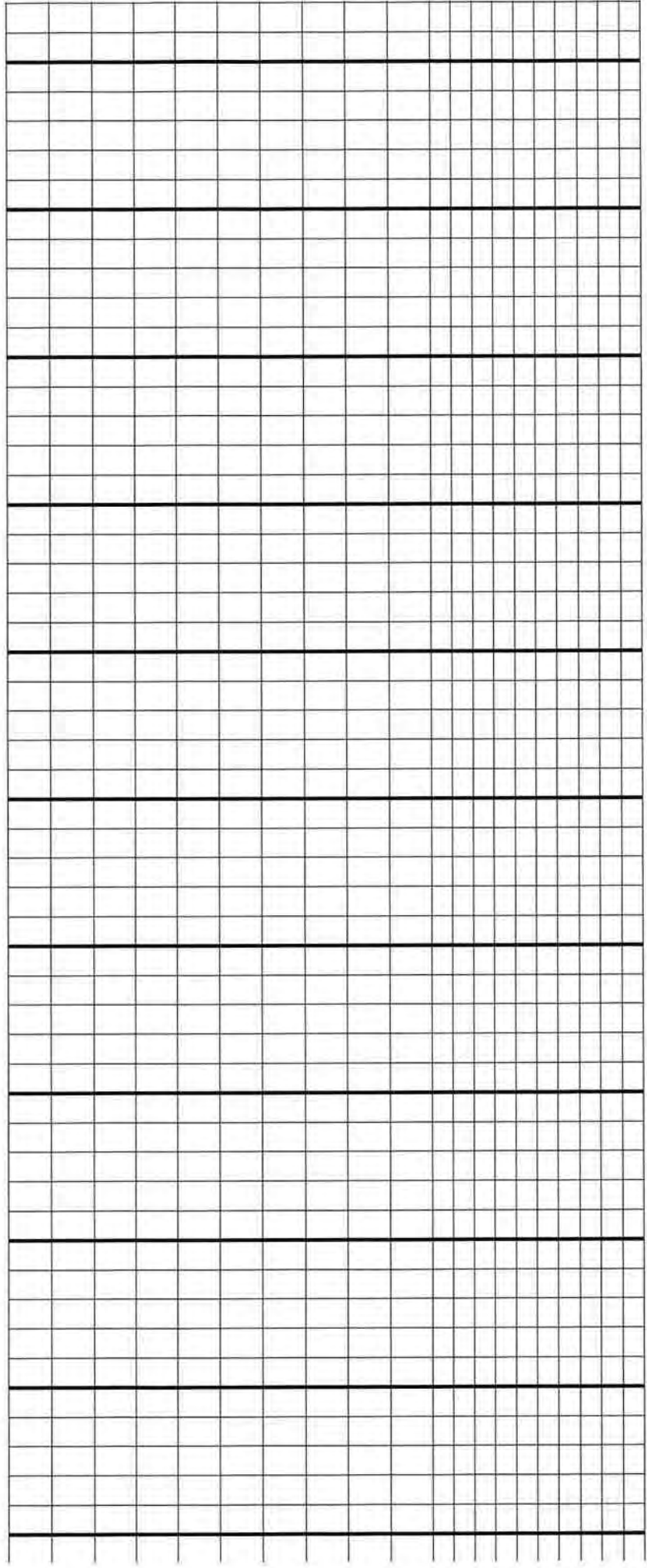
CLIENT	Energy Fuel Resources	ELOGS, SP, GAMMA, FLUID
WELL ID	CYN-MON-01	
PROJECT	Canyon Mine	
COUNTY	Cocconino	STATE Arizona
LOCATION	N 35 deg 53 min 0.30sec W 112 deg 05 min 41.34 sec	
SEC	20	TWP 29N RGE 03E
ELEVATION G.L.	6506 ft-amsl	K.B.
SURFACE CONDUCTOR	925 ft-bgl	D.F.
ILLING MEAS. FROM	Ground Level	GL
OTHER SERVICES	Caliper Magnetic Deviation Sonic Bond	

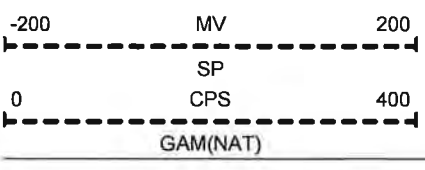
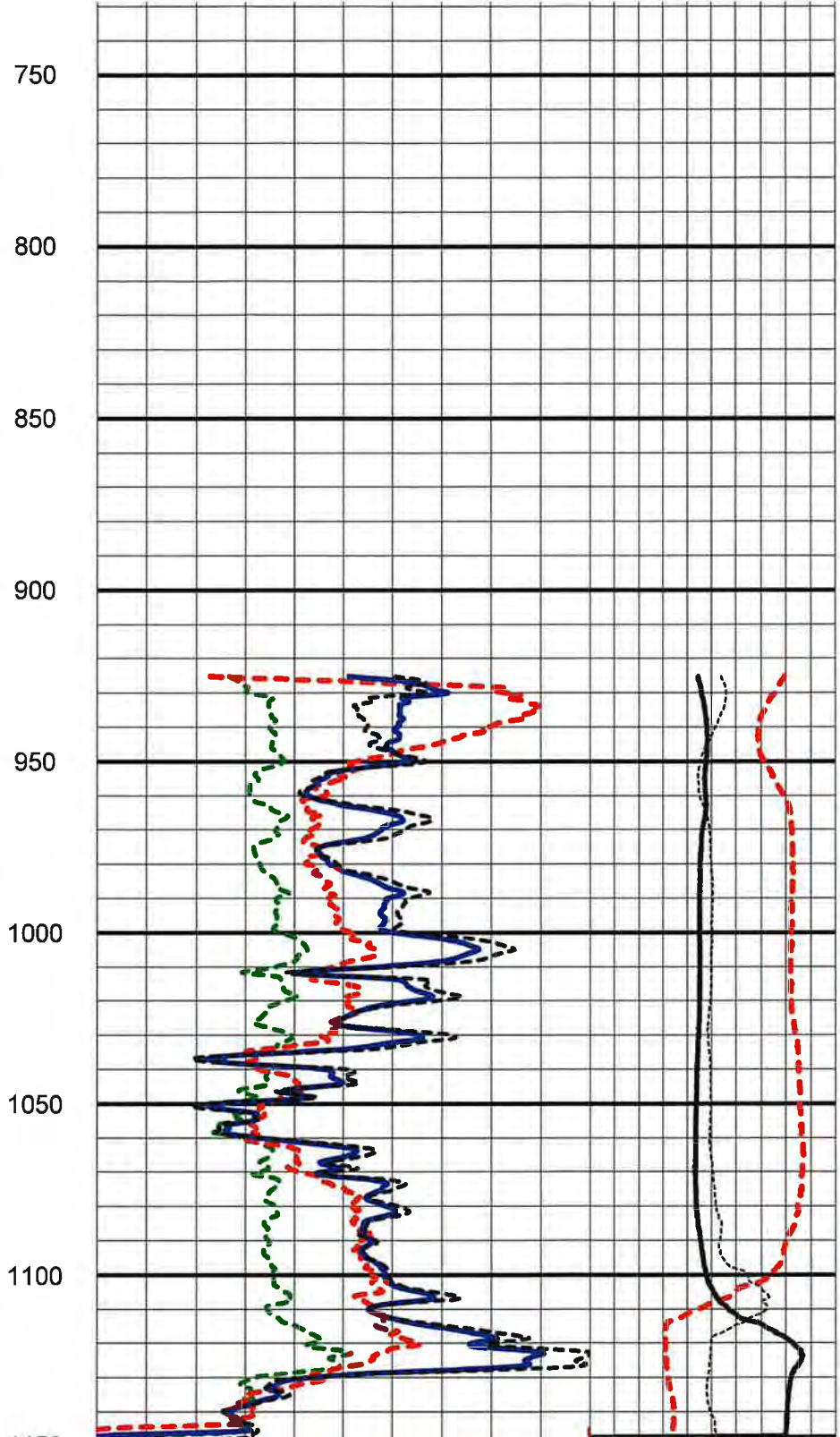
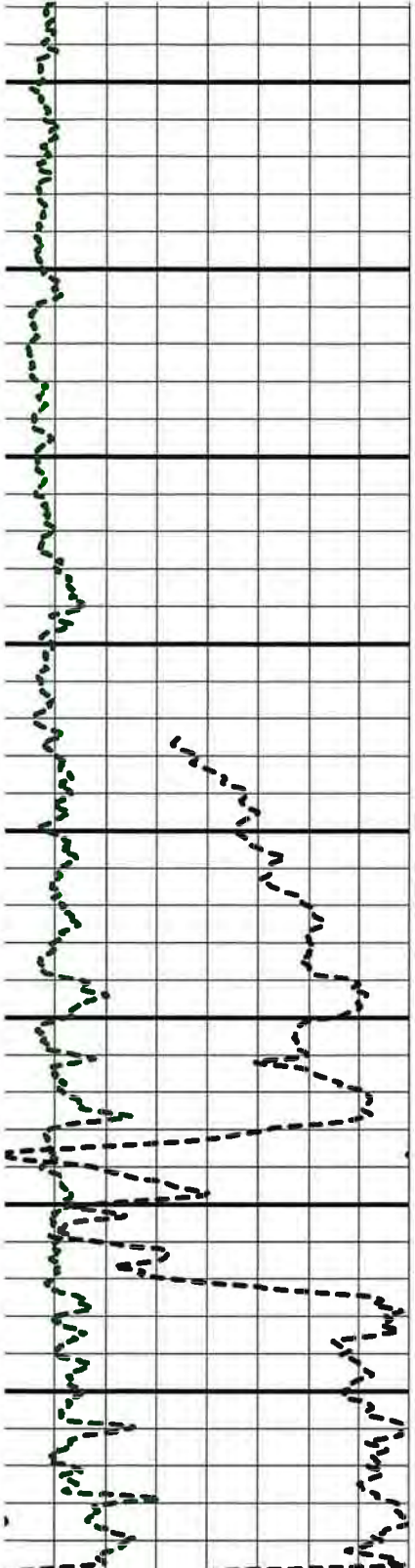
RMANENT DATUM	Ground Level	ELEVATION G.L.	6506 ft-amsl	K.B.
GS MEAS. FROM	Ground Level	SURFACE CONDUCTOR	925 ft-bgl	D.F.
ILLING MEAS. FROM	Ground Level			GL
TE	09-22-20	TYPE FLUID IN HOLE		Water
N No	1	RES MUD		
ILL TYPE	Monitor	RES MUD FILTRATE		
PTH-DRILLER	1,145 ft-bgl	RES WALL CAKE		
PTH-LOGGER	1,148 ft-bgl	MAX. REC. TEMP		
IDTIVES	N/A			
ITYPE	Hammer			
ILLING METHOD	Direct Air Rotary			
CORDED BY	Alan Gregorski			
TNESSED BY	Energy Fuels Resources			
Logging Tools Used / Century System VI				
TOOL S/N	FROM	TO	SIZE	WGT
N 1	Elogs, SP Gam, Dev 0	1,148 ft-bgl		0
N 2	Sonic Bond 0	920 ft-bgl		
N 3	Caliper 880 ft-bgl	1,148 ft-bgl		
N 4				
N 5			SHOP	
N 6				



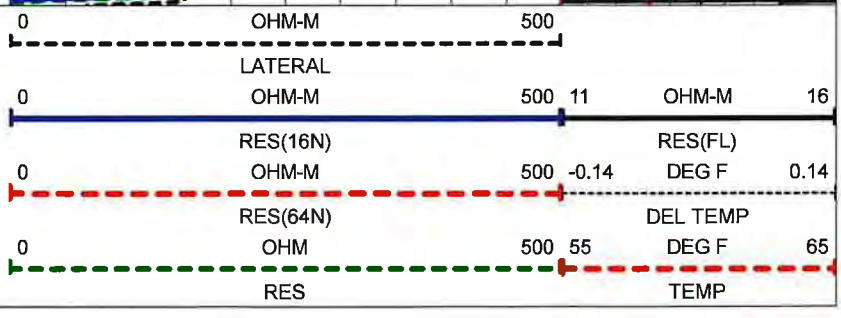


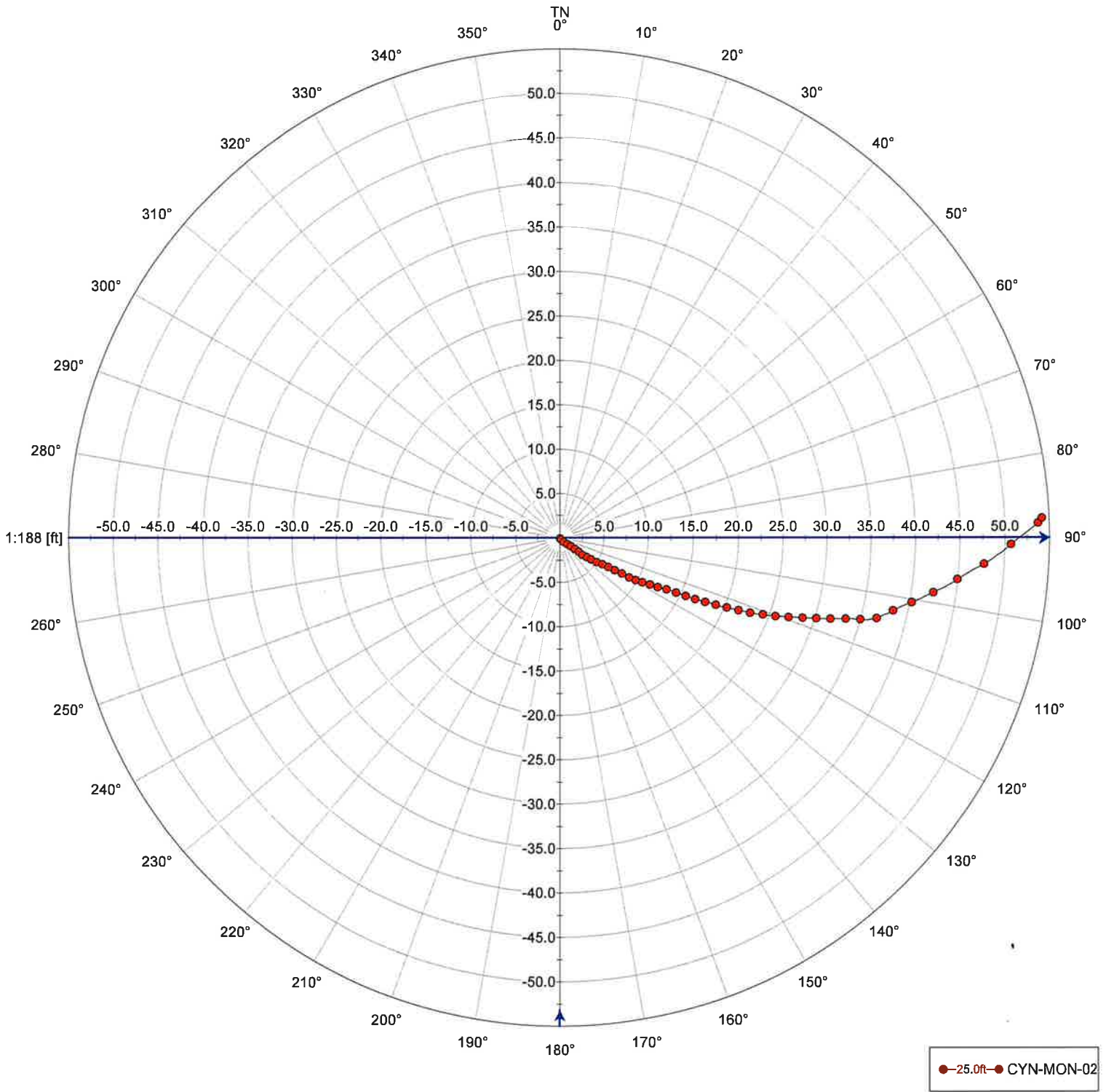
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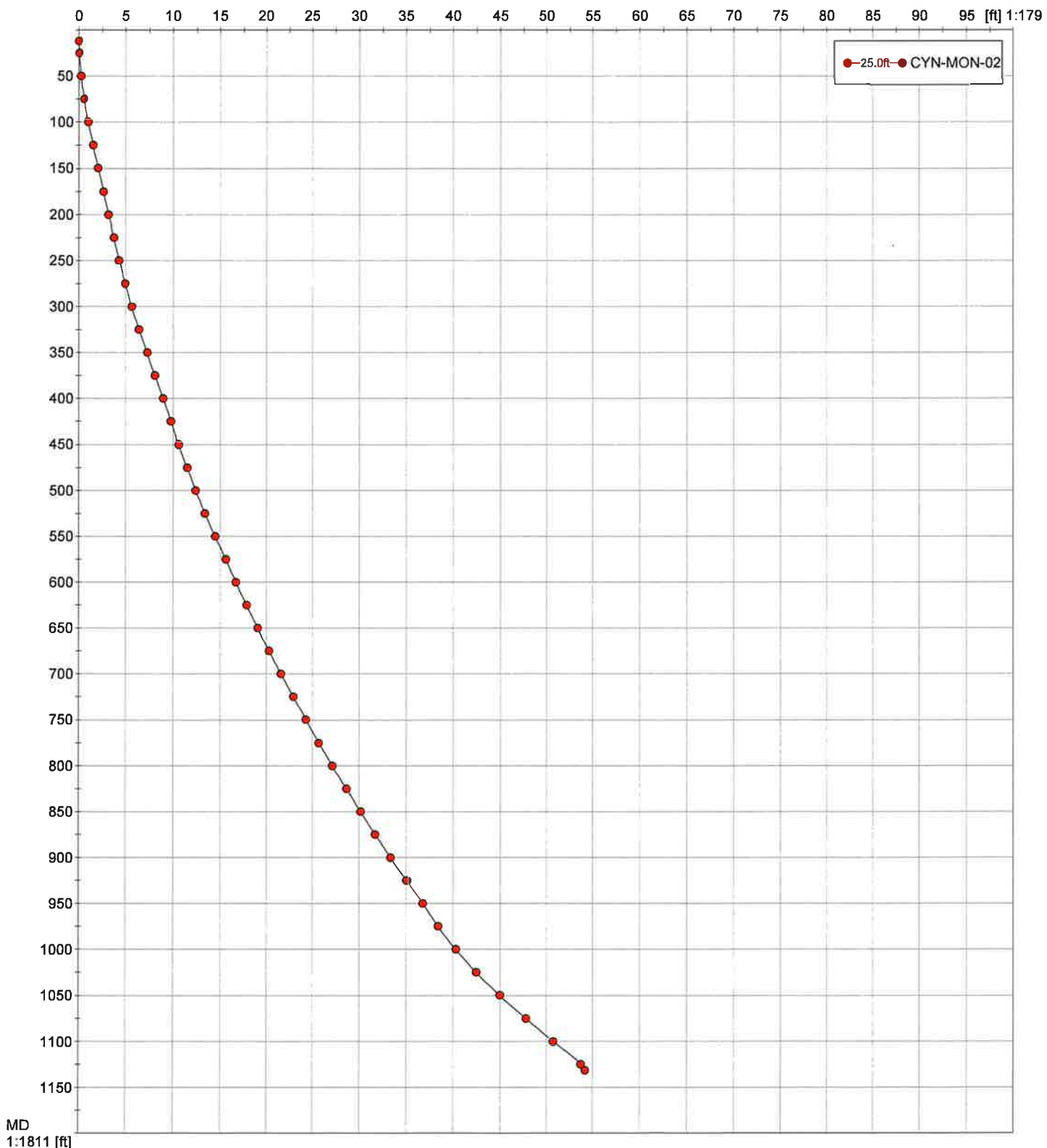




1ft:600ft
Depth







MD
1:1811 [ft]

APPENDIX B

ADWR DOCUMENTS



Arizona Department of Water Resources
 Groundwater Permitting and Wells Section
 P.O. Box 36020, Phoenix, AZ 85067-6020
 (602) 771-8527 • Fax (602) 771-8689
 www.azwater.gov

Received

MAR 09 2021

Pump Installation Completion Report

- ❖ Review instructions prior to completing form in black or blue ink.
- ❖ The registered well owner should file this report with the Department within 30 days following installation of pump equipment.

FILE NUMBER

WELL REGISTRATION NUMBER

55 - 924769

** PLEASE PRINT CLEARLY **

SECTION 1. REGISTRY INFORMATION	
Well Owner	Location of Well
FULL NAME OF COMPANY, ORGANIZATION, OR INDIVIDUAL EFR Arizona Strip LLC	WELL LOCATION ADDRESS (IF ANY) Kaibab National Forest East Well
MAILING ADDRESS 225 Union Blvd, Suite 600	TOWNSHIP (N/S) | RANGE (E/W) | SECTION | 160 ACRE | 40 ACRE | 10 ACRE 29N | 03E | 20 | SW ¼ | SE ¼ | NW ¼
CITY / STATE / ZIP CODE Lakewood, CO 80228	COUNTY ASSESSOR'S PARCEL ID NUMBER (MOST RECENT) BOOK | MAP | PARCEL 0 | 0 | 0
CONTACT PERSON NAME AND TITLE Scott Bakken, VP Regulatory Affairs	COUNTY WHERE WELL IS LOCATED COCONINO
TELEPHONE NUMBER | FAX 303-389-4132	

SECTION 2. EQUIPMENT INSTALLED	
DATE PUMP INSTALLED 12/17/2020	Pitless Adaptor
Pump Type	CHECK ONE (SEE INSTRUCTIONS FOR DEFINITION)
CHECK ONE	Was a pitless adaptor installed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<input type="checkbox"/> Air Lift <input type="checkbox"/> Bucket <input type="checkbox"/> Centrifugal <input type="checkbox"/> Jet <input type="checkbox"/> Piston	IF YES, DEPTH BELOW GROUND LEVEL THE DEVICE WAS INSTALLED Feet
<input type="checkbox"/> Rotary <input checked="" type="checkbox"/> Submersible <input type="checkbox"/> Turbine <input type="checkbox"/> Other (please specify):	Power Type
	CHECK ONE
	<input type="checkbox"/> Diesel Engine <input checked="" type="checkbox"/> Electric Motor <input type="checkbox"/> Gasoline Engine <input type="checkbox"/> Hand
	<input type="checkbox"/> Natural Gas <input type="checkbox"/> Windmill <input type="checkbox"/> Other (please specify):
RATED PUMP CAPACITY 7 Gallons Per Minute	HORSE POWER RATING OF MOTOR 5 HP

SECTION 3. PUMP TEST		
Pump Test Data	Method of Discharge Measurement	Method of Measuring Water Level
DATE WELL TESTED N/A	CHECK ONE	CHECK ONE
STATIC WATER LEVEL (A) 986 Feet Below Land Surface	<input type="checkbox"/> Bailer <input type="checkbox"/> Bucket - Barrel - Stopwatch <input type="checkbox"/> Current <input type="checkbox"/> Estimated - Air Lift <input type="checkbox"/> Gauge <input type="checkbox"/> Meter <input type="checkbox"/> Orifice <input type="checkbox"/> Volume <input type="checkbox"/> Weir - Flume <input checked="" type="checkbox"/> Other (please specify):	<input type="checkbox"/> Air Line <input checked="" type="checkbox"/> Electric Measuring Line (Sonder) <input type="checkbox"/> Steel Tape <input type="checkbox"/> Other (please specify):
PUMPING WATER LEVEL (B) N/A Feet Below Land Surface	No Pump Test, Pump was operated by Drill-Tech but no drawdown data was recorded	
DRAWDOWN { (B) - (A) } N/A Feet Below Land Surface		
TEST PUMPING RATE 5 GPM Gallons Per Minute		
DURATION OF PUMP TEST (Minimum 4 Hours) 5 MINUTES Hours		
TOTAL PUMPING LIFT 986 Feet		
FOR FLOWING WELL MEASURED SHUT IN HEAD N/A <input type="checkbox"/> FT <input type="checkbox"/> PSI		

I HEREBY CERTIFY that the above statements are true to the best of my knowledge and belief according to A.R.S. § 45-600(B).

SIGNATURE OF WELL OWNER 	DATE 3/2/21
-----------------------------	----------------



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

March 2, 2021

Via Express Delivery

Arizona Department of Water Resources
Groundwater Permitting and Wells Section
P.O. Box 36020
Phoenix, AZ 85067-6020

MAR 09 2021
RECEIVED

**RE: Well Registration Numbers 55-924769, 55-924770, and 55-924771
Pump Installation Completion Reports**

Dear Sir or Madam:

Attached please find copies of the Pump Installation Completion Reports for Well Registration Numbers 55-924769, 55-924770, and 55-924771.

Please contact me at 303-389-4132 or sbakken@energyfuels.com if you have any questions or need additional information.

Sincerely,

A handwritten signature in blue ink, appearing to read 'SBakken'.

ENERGY FUELS RESOURCES (USA) INC.
Scott A. Bakken
Vice President, Regulatory Affairs

cc: M. Germansen, K. Weinel, D. Kolkman (EFRI)



Arizona Department of Water Resources
Groundwater Permitting and Wells
PO Box 36020 • Phoenix, Arizona 85067-6020
(602) 771-8527 • 602-771-8500
www.azwater.gov

NOV 21 2020

Well Driller Report
and
Well Log

Arizona Department of Water Resources

**THIS REPORT MUST BE FILED WITHIN 30 DAYS OF COMPLETING THE WELL
PURSUANT TO ARIZONA REVISED STATUTE 45-600 AND A.A.C. RULE R12-15-808.**

FILE NUMBER
A(29-3) 20 BDC
WELL REGISTRATION NUMBER
55 - 924769
PERMIT NUMBER (IF ISSUED)

WELL DRILLER LOGS AND REPORTS CAN ALSO BE DONE ONLINE AT:

http://www.azwater.gov/eForms/Forms/DL/DWR_DL.aspx

SECTION 1. DRILLING AUTHORIZATION

Drilling Firm		
Mail To:	NAME DRILL-TECH, INC.	DWR LICENSE NUMBER 239
	ADDRESS 3320 N. HIGHWAY 89	TELEPHONE NUMBER 928-636-8006
	CITY / STATE / ZIP CHINO VALLEY, AZ, 86323-3568	FAX

SECTION 2. REGISTRY INFORMATION

Well Owner		Location of Well					
FULL NAME OF COMPANY, ORGANIZATION, OR INDIVIDUAL EFR ARIZONA STRIP		WELL LOCATION ADDRESS (IF ANY) EAST WELL					
MAILING ADDRESS 225 UNION BLVD. STE 600		TOWNSHIP (N/S) 29N	RANGE (E/W) 03E	SECTION 20	160 ACRE SW 1/4	40 ACRE SE 1/4	10 ACRE NW 1/4
CITY / STATE / ZIP LAKEWOOD, CO, 80228		LATITUDE DEGREES MINUTES SECONDS		LONGITUDE DEGREES MINUTES SECONDS		N W	
CONTACT PERSON NAME AND TITLE		METHOD OF LATITUDE/LONGITUDE (CHECK ONE) <input type="checkbox"/> *GPS: Hand-Held <input type="checkbox"/> *GPS: Survey-Grade <input type="checkbox"/> TOPO					
TELEPHONE NUMBER 303 974-2140	FAX	*LATITUDE/LONGITUDE DATUM, GPS (CHECK ONE) <input type="checkbox"/> NAD83 <input type="checkbox"/> NAD27 <input type="checkbox"/> WGS84 <input type="checkbox"/> Other _____					
WELL NAME (e.g., MW-1, PZ-3, lot 25 Well, Smith Well, etc.)		METHOD OF ELEVATION (CHECK ONE) <input type="checkbox"/> *GPS: Hand-Held <input type="checkbox"/> *GPS: Survey-Grade <input type="checkbox"/> TOPO					
COUNTY COCONINO	ASSESSOR'S PARCEL ID NUMBER (MOST RECENT) BOOK MAP PARCEL 0 0 0			LAND SURFACE ELEVATION AT WELL ELEVATION _____ Feet Above Sea Level			
		*ELEVATION DATUM (CHECK ONE) <input type="checkbox"/> NAVD88 <input type="checkbox"/> NGVD29 <input type="checkbox"/> OTHER _____					

SECTION 3. WELL CONSTRUCTION DETAILS

Drilling Method	Method of Well Development	Method of Sealing at Reduction Points
CHECK ONE <input checked="" type="checkbox"/> Air Rotary <input type="checkbox"/> Bored or Augered <input type="checkbox"/> Cable Tool <input type="checkbox"/> Dual Rotary <input type="checkbox"/> Mud Rotary <input type="checkbox"/> Reverse Circulation <input type="checkbox"/> Driven <input type="checkbox"/> Jetted <input type="checkbox"/> Air Percussion / Odex Tubing <input type="checkbox"/> Other (please specify)	CHECK ONE <input checked="" type="checkbox"/> Airlift <input type="checkbox"/> Bail <input type="checkbox"/> Surge Block <input type="checkbox"/> Surge Pump <input type="checkbox"/> Other (please specify)	CHECK ONE <input type="checkbox"/> None <input type="checkbox"/> Packed <input type="checkbox"/> Swedged <input checked="" type="checkbox"/> Welded <input type="checkbox"/> Other (please specify)
	Condition of Well	Construction Dates
	CHECK ONE <input checked="" type="checkbox"/> Capped <input type="checkbox"/> Abandoned <input type="checkbox"/> Pump Installed <input type="checkbox"/> Not Drilled	DATE WELL CONSTRUCTION STARTED 09/08/2020 DATE WELL CONSTRUCTION COMPLETED 09/21/2020

I state that this notice is filed in compliance with A.R.S. § 45-596 and is complete and correct to the best of my knowledge and belief.

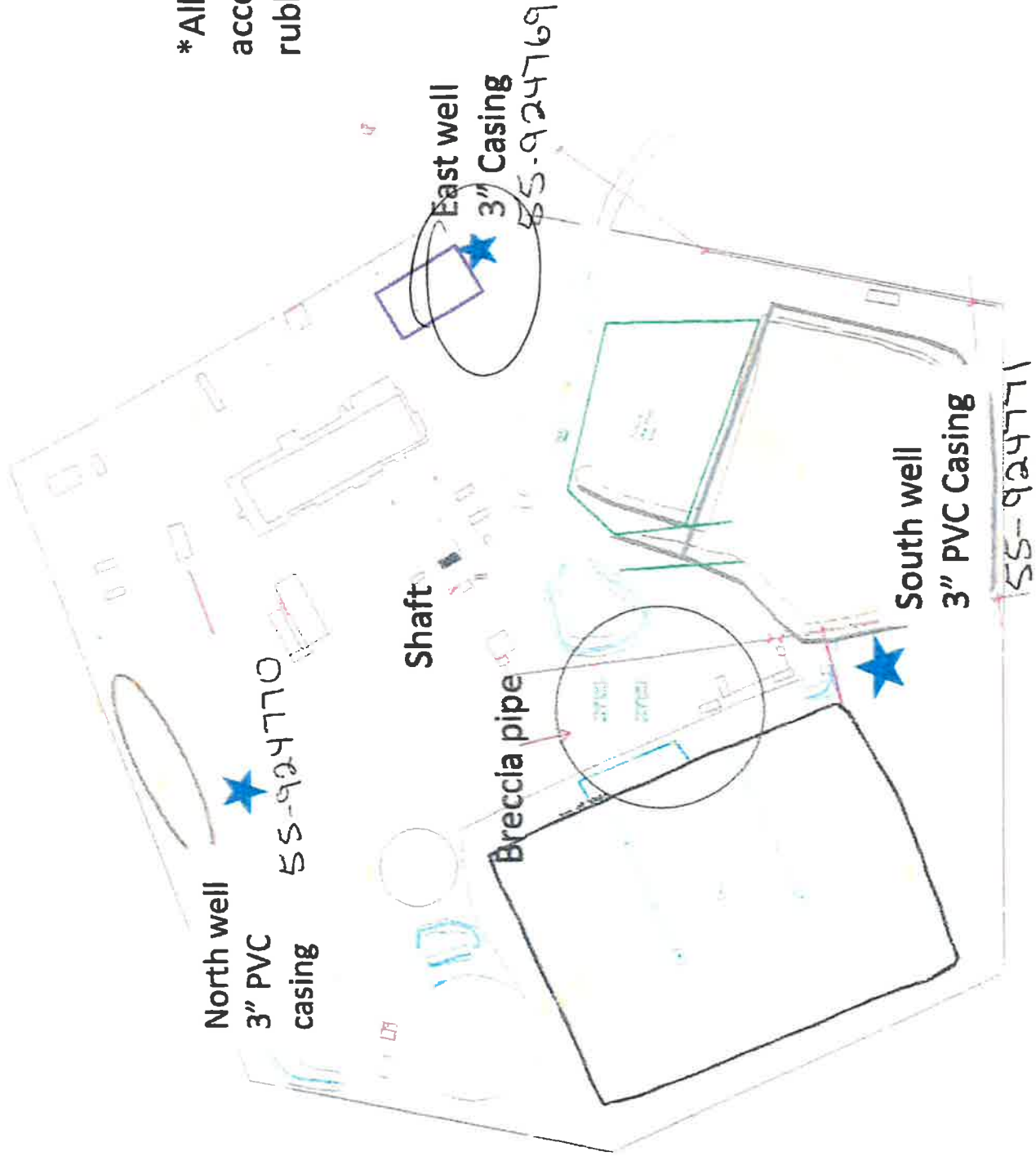
SIGNATURE OF QUALIFYING PARTY <i>Garth Owens</i>	DATE 11/03/2020
---	--------------------

SECTION 6. WELL SITE PLAN			
NAME OF WELL OWNER EFR ARIZONA STRIP	COUNTY ASSESSOR'S PARCEL ID NUMBER (MOST RECENT)		
	BOOK 0	MAP 0	PARCEL 0

- ◆ Required for all wells, please draw the following: (1) the boundaries of property on which the well was located; (2) the well location; (3) the locations of all septic tank systems and sewer systems on the property or within 100 feet of the well location, even if on neighboring properties; and (4) any permanent structures on the property that may aid in locating the well.
- ◆ Please indicate the distance between the well location and any septic tank system or sewer system.



*All 3 locations are accessible with rubber tire drill rigs.



USGS well
★

ARIZONA DEPARTMENT OF WATER RESOURCES

Phoenix, Arizona 85007

DRILLING CARD

ANY DEVIATION IN WELL LOCATION FROM THE PLOT PLAN APPROVED FROM THE COUNTY OR LOCAL HEALTH AUTHORITY MUST BE RE-SUBMITTED FOR APPROVAL

THIS AUTHORIZATION SHALL BE IN POSSESSION OF THE DRILLER DURING ALL DRILLING OPERATIONS

WELL REGISTRATION NO: **55-924769**

AUTHORIZED DRILLER: **DRILL-TECH, INC.**

LICENSE NO: **239**

NOTICE OF INTENT TO **DRILL A ENV - MONITOR WELL** HAS BEEN FILED WITH THE DEPARTMENT BY:

WELL OWNER: **EFR ARIZONA STRIP**

ADDRESS: **225 UNION BLVD. STE 600, LAKEWOOD, CO, 80228**

THE WELL(S) IS/ARE TO BE LOCATED IN THE:

SW 1/4 of the SE 1/4 of the NW1/4 Section 20 Township 29 N Range 03 E

NO. OF WELLS IN THIS PROJECT: **1**

THIS AUTHORIZATION EXPIRES AT MIDNIGHT ON THE DAY OF **8/21/2021**

THE DRILLER MUST FILE A WELL DRILLER REPORT AND WELL LOG WITHIN 30 DAYS OF COMPLETION OF DRILLING



This drilling or abandonment authority was granted based upon the certifications made by the above-named Driller in the notice of intent to drill or abandon. Those certifications, along with any variances granted, are listed below. By drilling or abandoning the well pursuant to this authorization, the above-named driller acknowledges the accuracy of the driller certifications. If the certifications are in error, this authorization is invalid and driller must contact the Department of Water Resource's NOI Section in writing at the address above to correct.

Variance(s) Granted To Driller: **None**

Certification(s) Made By Driller:

- By checking this box, I certify that I have all necessary Registrar of Contractor (ROC) licenses in all necessary license categories for this drilling or abandonment project and that those licenses are current.
- By checking this box, I certify that I have been authorized by the above-named well owner to submit this Notice of Intent on the well owner's behalf.
- By checking this box, I certify that the information above is complete and correct, and that the well shall be drilled or abandoned in compliance with all pertinent statutes and rules, including any special standards that may be required to protect the aquifer or other water sources.
- By checking this box, I certify that this NOI application is not an application to replace, deepen, or modify an existing well.
- By checking this box, I understand that the Authorization to drill this well DOES NOT constitute or guarantee an approval to use the well for the purpose of withdrawing groundwater for transportation to an Active Management Area (AMA) pursuant to A.R.S. § 45-552, 45-553, 45-554 or 45-555(A) without official prior approval from the

Department.



If the landowner and the well owner are not the same, by checking this box, I certify that I have obtained written approval from the landowner in order to conduct this drilling or abandonment project. A copy of the written approval shall be submitted to ADWR with the Well Driller Report and Well Log or Well Abandonment Completion Report within 30 days of completion of drilling or abandonment.

ARIZONA DEPARTMENT OF WATER RESOURCES

Electronic Filing - NOI Report

Phoenix, Arizona

NOI Type: Notice of Intent to Drill, Deepen, Modify a Monitor/Piezometer/Environmental Well

Well Type: ENV - MONITOR

Date Received at ADWR Website: 8/21/2020

Fee Paid: \$150.00

Order Number: -13129

Well Registration Number: 55 - 924769

Number of Wells/Holes: 1

Drilling Authority Expires On: 8/21/2021

Driller's ADWR License Number: 239

Authorized Driller: DRILL-TECH, INC.

ROC License Number Entered By Driller: 120370, 277443

Qualifying Party License Categories: A-4, R-53

Well Owner Name: EFR ARIZONA STRIP

Well Owner Address: 225 UNION BLVD. STE 600

Well Owner City, State - Zip: LAKEWOOD, CO - 80228

Well Owner Phone: 303 974-2140

Date Construction is Scheduled to Begin: 8/28/2020

Book: 0

Map: 0

Parcel: 0

Is the Land Owner the same as the Well Owner?: No

Land Owner Name: KAIBAB NATIONAL FOREST

Land Owner Address: 800 S. 6TH ST

Land Owner City, State - Zip: WILLIAMS, AZ - 86046

Land Owner Phone: 928 635-8367

Well Location: **SW** 1/4 of the **SE** 1/4 of the **NW** 1/4 Section **20** Township **29 N** Range **3 E**

AMA: NOT WITHIN ANY AMA OR INA

County: COCONINO

Contamination Site: NOT IN A REMEDIAL ACTION SITE

Depth: 1160

Diameter: 6

Type of Casing of Proposed Well: Steel

Primary Water Use: **MONITORING**

Secondary Water Use(s): **N/A**

Is any portion of the land, on which the well is to be located, within 100 feet of a designated municipal provider's operating water distribution system as shown on the municipal provider's most recent digitized service area map filed by the municipal provider with the director of ADWR. **N/A**

Will you be installing a dedicated pump?: **N/A**

Will the installed pump have a pumping capacity of greater than 35 GPM, or will the well will be used to withdraw greater than 10 Acre Feet per year?: **N/A**

Variance(s) Granted To Driller: **None**

Certification(s) Made By Driller:

- By checking this box, I certify that I have all necessary Registrar of Contractor (ROC) licenses in all necessary license categories for this drilling or abandonment project and that those licenses are current.
- By checking this box, I certify that I have been authorized by the above-named well owner to submit this Notice of Intent on the well owner's behalf.
- By checking this box, I certify that the information above is complete and correct, and that the well shall be drilled or abandoned in compliance with all pertinent statutes and rules, including any special standards that may be required to protect the aquifer or other water sources.
- By checking this box, I certify that this NOI application is not an application to replace, deepen, or modify an existing well.
- By checking this box, I understand that the Authorization to drill this well DOES NOT constitute or guarantee an approval to use the well for the purpose of withdrawing groundwater for transportation to an Active Management Area (AMA) pursuant to A.R.S. § 45-552, 45-553, 45-554 or 45-555(A) without official prior approval from the Department.
- If the landowner and the well owner are not the same, by checking this box, I certify that I have obtained written approval from the landowner in order to conduct this drilling or abandonment project. A copy of the written approval shall be submitted to ADWR with the Well Driller Report and Well Log or Well Abandonment Completion Report within 30 days of completion of drilling or abandonment.

NOTICE

A.R.S. § 41-1030(B), (D), (E) and (F) provide as follows:

- B. An agency shall not base a licensing decision in whole or in part on a licensing requirement or condition that is not specifically authorized by statute, rule or state tribal gaming compact. A general grant of authority in statute does not constitute a basis for imposing a licensing requirement or condition unless a rule is made pursuant to that general grant of authority that specifically authorizes the requirement or condition.
- D. This section may be enforced in a private civil action and relief may be awarded against the state. The court may award reasonable attorney fees, damages and all fees associated with the license application to a party that prevails in an action against the state for a violation of this section.
- E. A state employee may not intentionally or knowingly violate this section. A violation of this section is cause for disciplinary action or dismissal pursuant to the agency's adopted personnel policy.
- F. This section does not abrogate the immunity provided by section 12-820.01 or 12-820.02.



Arizona Department of Water Resources
 Groundwater Permitting and Wells
 PO Box 36020 • Phoenix, Arizona 85067-6020
 (602) 771-8527 • 602-771-8500
www.azwater.gov

Well Driller Report and Well Log

**THIS REPORT MUST BE FILED WITHIN 30 DAYS OF COMPLETING THE WELL.
PURSUANT TO ARIZONA REVISED STATUTE 45-600 AND A.A.C. RULE R12-15-808.**

FILE NUMBER A(29-3) 20 BDC
WELL REGISTRATION NUMBER 55 - 924769
PERMIT NUMBER (IF ISSUED)

WELL DRILLER LOGS AND REPORTS CAN ALSO BE DONE ONLINE AT:
http://www.azwater.gov/eForms/Forms/DL/DWR_DL.aspx

SECTION 1. DRILLING AUTHORIZATION							
Drilling Firm							
Mail To:	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 45%; padding: 2px;">NAME DRILL-TECH, INC.</td> <td style="width: 55%; padding: 2px;">DWR LICENSE NUMBER 239</td> </tr> <tr> <td style="padding: 2px;">ADDRESS 3320 N. HIGHWAY 89</td> <td style="padding: 2px;">TELEPHONE NUMBER 928-636-8006</td> </tr> <tr> <td style="padding: 2px;">CITY / STATE / ZIP CHINO VALLEY, AZ, 86323-3568</td> <td style="padding: 2px;">FAX</td> </tr> </table>	NAME DRILL-TECH, INC.	DWR LICENSE NUMBER 239	ADDRESS 3320 N. HIGHWAY 89	TELEPHONE NUMBER 928-636-8006	CITY / STATE / ZIP CHINO VALLEY, AZ, 86323-3568	FAX
NAME DRILL-TECH, INC.	DWR LICENSE NUMBER 239						
ADDRESS 3320 N. HIGHWAY 89	TELEPHONE NUMBER 928-636-8006						
CITY / STATE / ZIP CHINO VALLEY, AZ, 86323-3568	FAX						

SECTION 2. REGISTRY INFORMATION						
Well Owner			Location of Well			
FULL NAME OF COMPANY, ORGANIZATION, OR INDIVIDUAL EFR ARIZONA STRIP			WELL LOCATION ADDRESS (IF ANY)			
MAILING ADDRESS 225 UNION BLVD. STE 600			TOWNSHIP (N/S)	RANGE (E/W)	SECTION	160 ACRE 1/4
CITY / STATE / ZIP LAKEWOOD, CO, 80228			LATITUDE DEGREES	MINUTES	SECONDS *N	LONGITUDE DEGREES
CONTACT PERSON NAME AND TITLE			METHOD OF LATITUDE/LONGITUDE (CHECK ONE) <input type="checkbox"/> *GPS: Hand-Held <input type="checkbox"/> *GPS: Survey-Grade <input type="checkbox"/> TOPO			
TELEPHONE NUMBER 303 974-2140		FAX				
WELL NAME (e.g., MW-1, PZ-3, lot 25 Well, Smith Well, etc.)			METHOD OF ELEVATION (CHECK ONE) <input type="checkbox"/> *GPS: Hand-Held <input type="checkbox"/> *GPS: Survey-Grade <input type="checkbox"/> TOPO			
COUNTY COCONINO		ASSESSOR'S PARCEL ID NUMBER (MOST RECENT) BOOK MAP PARCEL 0 0 0		LAND SURFACE ELEVATION AT WELL ELEVATION _____ Feet Above Sea Level		
			*ELEVATION DATUM (CHECK ONE) <input type="checkbox"/> NAVD88 <input type="checkbox"/> NGVD29 <input type="checkbox"/> OTHER _____			

SECTION 3. WELL CONSTRUCTION DETAILS		
Drilling Method	Method of Well Development	Method of Sealing at Reduction Points
CHECK ONE <input type="checkbox"/> Air Rotary <input type="checkbox"/> Bored or Augered <input type="checkbox"/> Cable Tool <input type="checkbox"/> Dual Rotary <input type="checkbox"/> Mud Rotary <input type="checkbox"/> Reverse Circulation <input type="checkbox"/> Driven <input type="checkbox"/> Jetted <input type="checkbox"/> Air Percussion / Odex Tubing <input type="checkbox"/> Other (please specify)	CHECK ONE <input type="checkbox"/> Airlift <input type="checkbox"/> Bail <input type="checkbox"/> Surge Block <input type="checkbox"/> Surge Pump <input type="checkbox"/> Other (please specify)	CHECK ONE <input type="checkbox"/> None <input type="checkbox"/> Packed <input type="checkbox"/> Swedged <input type="checkbox"/> Welded <input type="checkbox"/> Other (please specify)
	Condition of Well	Construction Dates
	CHECK ONE <input type="checkbox"/> Capped <input type="checkbox"/> Abandoned <input type="checkbox"/> Pump Installed <input type="checkbox"/> Not Drilled	DATE WELL CONSTRUCTION STARTED
		DATE WELL CONSTRUCTION COMPLETED

I state that this notice is filed in compliance with A.R.S. § 45-596 and is complete and correct to the best of my knowledge and belief.

SIGNATURE OF QUALIFYING PARTY	DATE
-------------------------------	------



Well Driller Report and Well Log

Introduction

These instructions are a guide to filling out Form DWR 55-55 (Rev. 06/15/2010), entitled "Well Driller Report and Well Log." Please review the instructions prior to completing the form in black or blue ink. Forms may be obtained at any Arizona Department of Water Resources (ADWR) office and at ADWR's web site, <http://www.azwater.gov>. For information about the form or these instructions, contact Groundwater Permitting & Wells at (602) 771-8500. There is no fee for filing this form.

When Form DWR 55-55 Must be Filed

Within 30 days after completion of the drilling, deepening or modification of a well, the licensed well driller who performed the work must file a Well Driller Report and Log with ADWR. Because the information in the report describes the well as it was actually constructed, and comes from the person who constructed the well, the information is very valuable to ADWR. For that reason, it is very important to fill out the report with the most accurate information possible.

Instructions for Filling out the Form

Well Registration and Permit Numbers

Fill in the registration number of the well and any ADWR permit number associated with the well in the upper right-hand corner of the first page. Also fill in the well registration number in the upper right-hand corner of all other pages so that the well information on those pages can be identified when the pages are separated during computer imaging.

Section 1 - Drilling Authorization

Fill in the name, address, DWR license number and telephone and fax numbers of the drilling firm filing the report.

Section 2 - Registry Information

Well Owner

Fill in the name, mailing address, telephone number and fax number (if available) of the well owner. If the well owner is a corporation, governmental unit or other entity, provide the name of a contact person.

Location of Well

Fill in the following information relating to the location of the well:

- The street address of the property where the well is located. For monitor wells or other wells associated with contaminant investigations or remedial projects, this will usually be the same as the facility address.
- The legal description of the well site. The legal description is the township, range, section, and in decreasing order, the quarters of that section so that the well location falls in a 10-acre block within that section. Normally, the legal description will be the same as that given in the original Notice of Intent to drill the well, but occasionally a more accurate description is discovered after the Notice is filed.
- The latitude and longitude (in degrees-minutes-seconds format) and land surface elevation at the well, and the method used to determine these data. **Please note this information is mandatory.** Use of a Global Positioning System (GPS) receiver is the only method accepted by the Department. The GPS unit should be adjusted to use the NAD-83 datum. Please indicate if the geographic coordinate datum used was NAD-83, and if not, which datum was used.
- The name of the county and the tax assessor's parcel identification number for the land where the well is located. This information can normally be taken from the original Notice of Intent to drill the well, and may also be obtained from the county tax assessor's office. Federal or State land will not have a parcel identification number.

Section 3 - Well Construction Details

Section 3 requires details on the construction of the well. Indicate the drill method by checking the appropriate box. If the drill method is not listed, check the "Other" box and describe the method. To the right of that, indicate the method of well development by checking the

appropriate box. Next, indicate the method of sealing at reduction points. If the method used is not listed, check "Other" and provide a brief explanation. Under *Well Driller Completion Report and Well Log Form 55-55 Instructions* (Rev. 06/2010) Page 2

Condition of Well, indicate whether the well was capped, or a pump was installed, when you left it. Then fill in the date when well construction started, and the date when well construction was completed.

Signature Block

The form must be signed and dated by the qualifying party of the drilling firm.

Section 4 - Well Construction Design (As Built)

Section 4 contains tables to fill in information on the existing borehole, the installed casing and the installed annular material. The tables are broken down by depth interval.

In the first set of boxes, fill in the depth of the boring and the depth of the completed well, as measured in feet below the land surface.

Under **Water Level Information** please indicate the static water level in the well, as measured in feet below the land surface, and the date and time the water level was measured. If the well is a flowing well, include the method by which the artesian flow is regulated.

In the **Borehole** table, fill in the diameter of the borehole in inches, and indicate the depth interval for each change in diameter. In the **Installed Casing** table, fill in the outer diameter of the casing in inches, check the appropriate boxes indicating the type of casing material and the type of perforations, and fill in the slot size of any perforations. Fill in the depth interval for each change in information. Please note that not every interval will be perforated. Check the "Blank or None" box for non-perforated depth intervals. If the type of casing material or perforations is not listed, describe the type in the appropriate box.

In the **Installed Annular Material** table, check the appropriate boxes indicating the type of annular material or filter pack installed at each depth interval. Fill in the size of the filter pack used. Provide the depth interval for each change in information. If the type of annular material is not listed, describe the material in the appropriate box.

Section 5 - Geologic Log of Well

Section 5 requires the geologic or lithologic log of the well. Describe the various units encountered during drilling. Provide as much description as possible. The

log description must be broken down by depth intervals below ground surface, and every interval where groundwater, including perched groundwater, was encountered must be checked. If a consulting firm was involved with the well construction, the consultant's lithologic log may be submitted in lieu of completing Section 5.

Section 6 - Well Site Plan

In the boxes at the top of Section 6, fill in the name of the well owner and the county tax assessor's parcel identification number for the land where the well is located. Below that, provide a scale drawing of where the well was actually constructed on the parcel, illustrating the property boundaries, the well location and any structures on the property. The drawing must also show the location of any septic tank or sewer systems on the property or within 100 feet of the well, even if on neighboring property, and the distance between the well and the septic tank or sewer system. The drawing should closely match the drawing on the original Notice of Intent to drill the well, but the purpose of this drawing is to show where the well was actually drilled, especially if the location is different than originally planned. This information will be shared with the county.

Where to File Form

Completed forms may be mailed to ADWR at the following address:

Arizona Department of Water Resources
Groundwater Permitting and Wells
PO Box 36020
Phoenix, AZ 85067-6020

Completed forms may also be submitted to ADWR's main office at 1110 W. Washington St. Suite 310., Phoenix, AZ 85007.

The completed form must be legible and of good quality when received by ADWR so that it can be scanned into ADWR's permanent records.

ARIZONA DEPARTMENT of WATER RESOURCES
1110 W. Washington St. Suite 310
Phoenix, AZ 85007
602-771-8500
azwater.gov



DOUGLAS A. DUCEY
Governor

THOMAS BUSCHATZKE
Director

August 21, 2020

EFR ARIZONA STRIP
225 UNION BLVD. STE 600
LAKEWOOD, CO 80228

Registration No. 55- 924769
File Number: A(29-3) 20 BDC

Dear Well Applicant:

Enclosed is a copy of the Notice of Intention to Drill (NOI) a well which you or your driller recently filed with the Department of Water Resources. This letter is to inform you that the Department has approved the NOI and has mailed, or made available for download, a drilling authorization card to your designated well drilling contractor. The driller may not begin drilling until he/she has received the authorization, and must keep it in their possession at the well site during drilling. Although the issuance of this drill card authorizes you to drill the proposed well under state law, the drilling of the well may be subject to restrictions or regulations imposed by other entities.

Well drilling activities must be completed within one year after the date the NOI was filed with the Department. If drilling is not completed within one year, a new NOI must be filed and authorization from this Department received before proceeding with drilling. If the well cannot be successfully completed as initially intended (dry hole, cave in, lost tools, etc.), the well must be properly abandoned and a Well Abandonment Completion Report must be filed by your driller [as required by A.A.C. R12-15-816(F)].

If you change drillers, you must notify the Department of the new driller's identity on a Request to Change Well Drilling Contract (form 55-71B). Please ensure that the new driller is licensed by the Department to drill the type of well you require. A new driller may not begin drilling until he/she receives a new drilling authorization card from the Department. Forms may be obtained by contacting the Department, or online at: <https://new.azwater.gov/permitting-wells/well-forms-and-applications>.

If you find it necessary to change the location of the proposed well(s), you may not proceed with drilling until you file an amended NOI with the Department. An amended drilling authorization card will then be issued to the well drilling contractor, which must be in their possession before drilling begins.

Arizona statute [A.R.S. § 45-600] requires registered well owners to file a Pump Installation Completion Report (form 55-56) with the Department within 30 days after the installation of pumping equipment, if authorized. A blank report is enclosed for your convenience. State statute also requires the driller to file a complete and accurate Well Drillers Report and Well Log (form 55-57) within 30 days after completion of drilling. A blank report form was provided to your driller with the drilling authorization card. You should insist and ensure that all of the required reports are accurately completed and timely filed with the Department.

Please be advised that Arizona statute [A.R.S. § 45-593(C)] requires a registered well owner to notify the Department of a change in ownership of the well and/or information pertaining to the physical characteristics of the well in order to keep this well registration file current and accurate. Any change in well information must be filed on a Request to Change Well Information form (form 55-71A). Forms may be obtained by contacting the Department, or online at: <https://new.azwater.gov/permitting-wells/well-forms-and-applications>.

Sincerely,

Groundwater Permitting and Wells Section

ARIZONA DEPARTMENT of WATER RESOURCES
1110 W. Washington St. Suite 310
Engineering and Permits Division
Phoenix, AZ 85007
602-771-8500

NOTICE TO WELL DRILLERS

This is a reminder that a valid drill card must be present for the drilling of each and every well constructed on a site. During the construction of a well, if an unexpected problem occurs; the hole collapses, the hole is dry, or a drill bit is lost and can't be recovered, or any number of other situations where the driller feels they need to move over and start another well. Please be aware drillers do not have the authority to start another well without first obtaining drilling authority for the new well. Please note the following statutes and regulations pertaining to well drilling and construction:

ARIZONA REVISED STATUTE (A.R.S.)

A.R.S. § 45-592.A.

A person may construct, replace or deepen a well in this state only pursuant to this article and section 45-834.01. The drilling of a well may not begin until all requirements of this article and section 45-834.01, as applicable, are met.

A.R.S. § 594.A.

The director shall adopt rules establishing construction standards for new wells and replacement wells, the deepening and abandonment of existing wells and the capping of open wells.

A.R.S. § 600.A

A well driller shall maintain a complete and accurate log of each well drilled.

ARIZONA ADMINISTRATIVE CODE (A.A.C.)

A.A.C. R12-15-803.A.

A person shall not drill or abandon a well, or cause a well to be drilled or abandoned, in a manner which is not in compliance with A.R.S. Title 45, Chapter 2, Article 10, and the rules adopted thereunder.

A.A.C. R12-15-810.A.

A well drilling contractor or single well licensee may commence drilling a well only if the well drilling contractor or licensee has possession of a drilling card at the well site issued by the Director in the name of the well drilling contractor or licensee, authorizing the drilling of the specific well in the specific location.

A.A.C. R12-15-816.F.

In the course of drilling a new well, the well may be abandoned without first filing a notice of intent to abandon and without an abandonment card.

*** THIS REQUIREMENT DOES NOT PERTAIN TO THE DRILLING OF MINERAL EXPLORATION, GEOTECHNICAL OR HEAT PUMP BOREHOLES**



Arizona Department of Water Resources
 Groundwater Permitting and Wells Section
 PO Box 36020 , Phoenix, AZ 85067-6020
 (602) 771-8527 • 1-800-352-8488
www.azwater.gov

Landowner Authorization to Drill or Abandon a Well on Landowner's Parcel

Landowner Authorization to Drill or Abandon a Well by a Third Party on Landowner's Parcel Pursuant to A.R.S. § 45-596 and A.A.C. R12-15-809

FILE NUMBER A(29-3) 20 BDC
WELL REGISTRATION NUMBER 55 - 924769

The Arizona Department of Water Resources requires a well driller or well owner to obtain written permission from the owner of the land on which they intend to drill or abandon a well. Landowners, or their designated representative, must authorize the well to be drilled or abandoned with their signature on the Notice of Intent or on this form, to be attached to the Notice of Intent form.

PARCEL ADDRESS _____

COUNTY PARCEL ID 0 - 0 - 0 COUNTY COCONINO
 BOOK MAP PARCEL

In accordance with A.R.S. § 45-496 and A.A.C. R12-15-809, I certify that:

- I am the owner of the parcel on which I am giving permission for a well to be drilled or abandoned.
- I am an authorized representative of the owner of the parcel on which I am giving permission for a well to be drilled or abandoned.

SIGNATURE

TYPE OR PRINT NAME OF LANDOWNER / REPRESENTATIVE	TITLE
SIGNATURE	DATE SIGNED



Arizona Department of Water Resources
 Groundwater Permitting and Wells Section
 P.O. Box 36020, Phoenix, AZ 85067-6020
 (602) 771-8527 • Fax (602) 771-8689
 www.azwater.gov

Pump Installation Completion Report

- ❖ Review instructions prior to completing form in black or blue ink.
- ❖ The registered well owner should file this report with the Department within 30 days following installation of pump equipment.

FILE NUMBER

WELL REGISTRATION NUMBER

55 - 924770

** PLEASE PRINT CLEARLY **

MAR 09 2021

SECTION 1. REGISTRY INFORMATION

Well Owner		Location of Well					
FULL NAME OF COMPANY, ORGANIZATION, OR INDIVIDUAL EFR Arizona Strip LLC		WELL LOCATION ADDRESS (IF ANY) Kaibab National Forest, North Well					
MAILING ADDRESS 225 Union Blvd, Suite 600		TOWNSHIP (N/S)	RANGE (E/W)	SECTION	160 ACRE	40 ACRE	10 ACRE
CITY / STATE / ZIP CODE Lakewood, CO 80228		29N	03E	20	NW ¼	NE ¼	NW ¼
CONTACT PERSON NAME AND TITLE Scott Bakken, VP Regulatory Affairs		COUNTY ASSESSOR'S PARCEL ID NUMBER (MOST RECENT)					
TELEPHONE NUMBER 303-389-4132		BOOK 0	MAP 0	PARCEL 0			
FAX		COUNTY WHERE WELL IS LOCATED COCONINO					

SECTION 2. EQUIPMENT INSTALLED

DATE PUMP INSTALLED 12/16/2020	Pitless Adaptor CHECK ONE (SEE INSTRUCTIONS FOR DEFINITION) Was a pitless adaptor installed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Pump Type CHECK ONE	IF YES, DEPTH BELOW GROUND LEVEL THE DEVICE WAS INSTALLED Feet
<input type="checkbox"/> Air Lift <input type="checkbox"/> Bucket <input type="checkbox"/> Centrifugal <input type="checkbox"/> Jet <input type="checkbox"/> Piston	Power Type CHECK ONE <input type="checkbox"/> Diesel Engine <input checked="" type="checkbox"/> Electric Motor <input type="checkbox"/> Gasoline Engine <input type="checkbox"/> Hand
<input type="checkbox"/> Rotary <input checked="" type="checkbox"/> Submersible <input type="checkbox"/> Turbine <input type="checkbox"/> Other (please specify):	<input type="checkbox"/> Natural Gas <input type="checkbox"/> Windmill <input type="checkbox"/> Other (please specify):
RATED PUMP CAPACITY 7 Gallons Per Minute	HORSE POWER RATING OF MOTOR 5 HP

SECTION 3. PUMP TEST

Pump Test Data	Method of Discharge Measurement	Method of Measuring Water Level
DATE WELL TESTED N/A	CHECK ONE <input type="checkbox"/> Bailer	CHECK ONE <input type="checkbox"/> Air Line
STATIC WATER LEVEL (A) 985 Feet Below Land Surface	<input type="checkbox"/> Bucket – Barrel – Stopwatch	<input checked="" type="checkbox"/> Electric Measuring Line (Sonder)
PUMPING WATER LEVEL (B) N/A Feet Below Land Surface	<input type="checkbox"/> Current	<input type="checkbox"/> Steel Tape
DRAWDOWN [(B) – (A)] N/A Feet Below Land Surface	<input type="checkbox"/> Estimated – Air Lift	<input type="checkbox"/> Other (please specify):
TEST PUMPING RATE 5 GPM Gallons Per Minute	<input type="checkbox"/> Gauge	
DURATION OF PUMP TEST (Minimum 4 Hours) 5 MINUTES Hours	<input type="checkbox"/> Meter	
TOTAL PUMPING LIFT 985 Feet	<input type="checkbox"/> Orifice	
FOR FLOWING WELL MEASURED SHUT IN HEAD N/A <input type="checkbox"/> FT <input type="checkbox"/> PSI	<input type="checkbox"/> Volume	
	<input type="checkbox"/> Weir – Flume	
	<input checked="" type="checkbox"/> Other (please specify): No Pump Test, Pump was operated by Drill-Tech but no drawdown data was recorded	

I HEREBY CERTIFY that the above statements are true to the best of my knowledge and belief according to A.R.S. § 45-600(B).

SIGNATURE OF WELL OWNER

DATE

3/2/21



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

March 2, 2021

Via Express Delivery

Arizona Department of Water Resources
Groundwater Permitting and Wells Section
P.O. Box 36020
Phoenix, AZ 85067-6020

MAR 09 2021
RECEIVED

**RE: Well Registration Numbers 55-924769, 55-924770, and 55-924771
Pump Installation Completion Reports**

Dear Sir or Madam:

Attached please find copies of the Pump Installation Completion Reports for Well Registration Numbers 55-924769, 55-924770, and 55-924771.

Please contact me at 303-389-4132 or sbakken@energyfuels.com if you have any questions or need additional information.

Sincerely,

A handwritten signature in blue ink, appearing to read 'SBakken', is written over a horizontal line.

ENERGY FUELS RESOURCES (USA) INC.
Scott A. Bakken
Vice President, Regulatory Affairs

cc: M. Germansen, K. Weinel, D. Kolkman (EFRI)

RECEIVED

me



Arizona Department of Water Resources
Groundwater Permitting and Wells
PO Box 36020 • Phoenix, Arizona 85067-6020
(602) 771-8527 • 602-771-8500
www.azwater.gov

NOV 21 2020
Well Driller Report
and
Well Log
Arizona Department of Water Resources

THIS REPORT MUST BE FILED WITHIN 30 DAYS OF COMPLETING THE WELL
PURSUANT TO ARIZONA REVISED STATUTE 45-600 AND A.A.C. RULE R12-15-808.

FILE NUMBER	A(29-3) 20 BDC
WELL REGISTRATION NUMBER	55 - 924770
PERMIT NUMBER (IF ISSUED)	

WELL DRILLER LOGS AND REPORTS CAN ALSO BE DONE ONLINE AT:
http://www.azwater.gov/eForms/Forms/DL/DWR_DL.aspx

SECTION 1. DRILLING AUTHORIZATION

Drilling Firm		
Mail To:	NAME DRILL-TECH, INC.	DWR LICENSE NUMBER 239
	ADDRESS 3320 N. HIGHWAY 89	TELEPHONE NUMBER 928-636-8006
	CITY / STATE / ZIP CHINO VALLEY, AZ, 86323-3568	FAX

SECTION 2. REGISTRY INFORMATION

Well Owner		Location of Well					
FULL NAME OF COMPANY, ORGANIZATION, OR INDIVIDUAL EFR ARIZONA STRIP LLC		WELL LOCATION ADDRESS (IF ANY) NORTH WELL					
MAILING ADDRESS 225 UNION BLVD. STE. 600		TOWNSHIP (N/S) 29N	RANGE (E/W) 03E	SECTION 20	160 ACRE NW 1/4	40 ACRE NE 1/4	10 ACRE NW 1/4
CITY / STATE / ZIP LAKEWOOD, CO, 80228		LATITUDE DEGREES MINUTES SECONDS		LONGITUDE DEGREES MINUTES SECONDS			
CONTACT PERSON NAME AND TITLE		METHOD OF LATITUDE/LONGITUDE (CHECK ONE) <input type="checkbox"/> *GPS Hand-Held <input type="checkbox"/> *GPS Survey-Grade <input type="checkbox"/> TOPO					
TELEPHONE NUMBER 303 974-2140	FAX	*LATITUDE/LONGITUDE DATUM, GPS (CHECK ONE) <input type="checkbox"/> NAD83 <input type="checkbox"/> NAD27 <input type="checkbox"/> WGS84 <input type="checkbox"/> Other _____					
WELL NAME (e.g., MW-1, PZ-3, lot 25 Well, Smith Well, etc.)		METHOD OF ELEVATION (CHECK ONE) <input type="checkbox"/> *GPS Hand-Held <input type="checkbox"/> *GPS Survey-Grade <input type="checkbox"/> TOPO					
COUNTY COCONINO	ASSESSOR'S PARCEL ID NUMBER (MOST RECENT)		LAND SURFACE ELEVATION AT WELL				
	BOOK 0	MAP 0	PARCEL 0	ELEVATION _____ Feet Above Sea Level			
			*ELEVATION DATUM (CHECK ONE) <input type="checkbox"/> NAVD88 <input type="checkbox"/> NGVD29 <input type="checkbox"/> OTHER _____				

SECTION 3. WELL CONSTRUCTION DETAILS

Drilling Method	Method of Well Development	Method of Sealing at Reduction Points
CHECK ONE <input checked="" type="checkbox"/> Air Rotary <input type="checkbox"/> Bored or Augered <input type="checkbox"/> Cable Tool <input type="checkbox"/> Dual Rotary <input type="checkbox"/> Mud Rotary <input type="checkbox"/> Reverse Circulation <input type="checkbox"/> Driven <input type="checkbox"/> Jetted <input type="checkbox"/> Air Percussion / Odex Tubing <input type="checkbox"/> Other (please specify)	CHECK ONE <input checked="" type="checkbox"/> Airlift <input type="checkbox"/> Bail <input type="checkbox"/> Surge Block <input type="checkbox"/> Surge Pump <input type="checkbox"/> Other (please specify)	CHECK ONE <input type="checkbox"/> None <input type="checkbox"/> Packed <input type="checkbox"/> Swedged <input checked="" type="checkbox"/> Welded <input type="checkbox"/> Other (please specify)
	Condition of Well	Construction Dates
	CHECK ONE <input checked="" type="checkbox"/> Capped <input type="checkbox"/> Abandoned <input type="checkbox"/> Pump Installed <input type="checkbox"/> Not Drilled	DATE WELL CONSTRUCTION STARTED 09/22/2020 DATE WELL CONSTRUCTION COMPLETED 10/05/2020

I state that this notice is filed in compliance with A.R.S. § 45-596 and is complete and correct to the best of my knowledge and belief.

SIGNATURE OF QUALIFYING PARTY <i>Garth Owens</i>	DATE 11/04/2020
---	--------------------

Well Driller Report and Well Log

WELL REGISTRATION NUMBER
55 - 924770

SECTION 4. WELL CONSTRUCTION DESIGN (AS BUILT) (attach additional page if needed)

Depth		
DEPTH OF BORING	1130 Feet Below Land Surface	DEPTH OF COMPLETED WELL 920 Feet Below Land Surface

Water Level Information

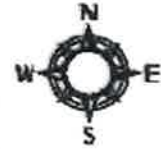
STATIC WATER LEVEL	DATE MEASURED	TIME MEASURED	IF FLOWING WELL, METHOD OF FLOW REGULATION
870 Feet Below Land Surface	10/05/2020		<input type="checkbox"/> Valve <input type="checkbox"/> Other.

Borehole			Installed Casing													
DEPTH FROM SURFACE		BOREHOLE DIAMETER (inches)	DEPTH FROM SURFACE		OUTER (inches)	MATERIAL TYPE (X)				PERFORATION TYPE (X)					SLOT SIZE (inches)	
FROM (feet)	TO (feet)		FROM (feet)	TO (feet)		STEEL	PVC	ABS	IF OTHER TYPE, DESCRIBE	BLANK OR NONE	WIRE WRAP	SHUTTER SCREEN	MILLS KNIFE	SLOTTED		IF OTHER TYPE, DESCRIBE
0	20	15	0	20	10	X				X						
20	1130	8 3/4	0	400	6	X				X						
			400	600	6	X								X		
			600	920	6	X				X						
			920	1130	OPEN HOLE											

Installed Annular Material												
DEPTH FROM SURFACE		ANNULAR MATERIAL TYPE (X)							FILTER PACK			
FROM (feet)	TO (feet)	NONE	CONCRETE	NEAT CEMENT OR CEMENT GROUT	CEMENT-BENTONITE GROUT	BENTONITE			IF OTHER TYPE OF ANNULAR MATERIAL, DESCRIBE	SAND	GRAVEL	SIZE
						GROUT	CHIPS	PELLETS				
0	20			X								

SECTION 6. WELL SITE PLAN			
NAME OF WELL OWNER	COUNTY ASSESSOR'S PARCEL ID NUMBER (MOST RECENT)		
EFR ARIZONA STRIP LLC	BOOK 0	MAP 0	PARCEL 0

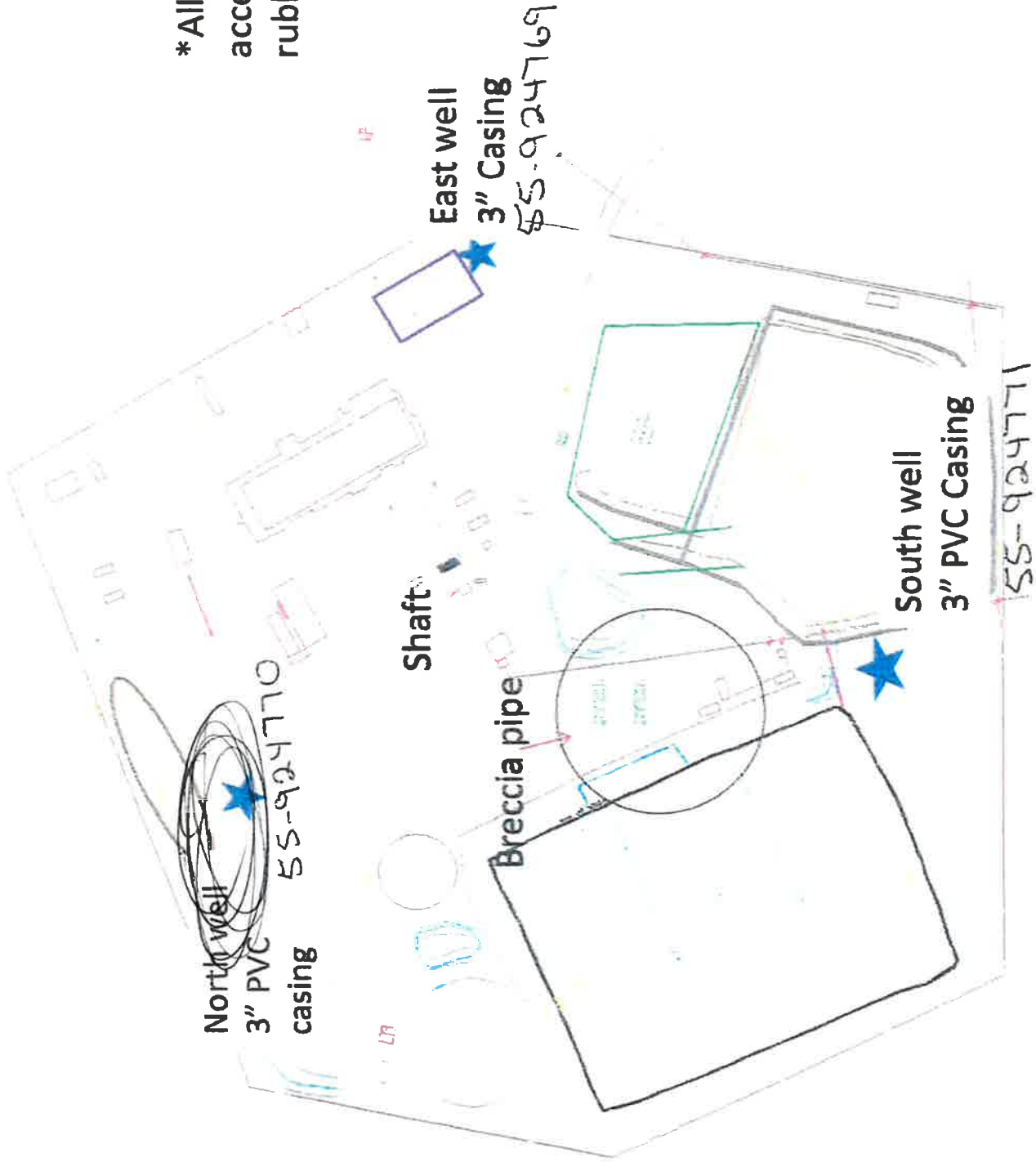
- ◆ Required for all wells, please draw the following: (1) the boundaries of property on which the well was located; (2) the well location; (3) the locations of all septic tank systems and sewer systems on the property or within 100 feet of the well location, even if on neighboring properties; and (4) any permanent structures on the property that may aid in locating the well.
- ◆ Please indicate the distance between the well location and any septic tank system or sewer system.



1" = _____ ft

SEE ATTACHED

*All 3 locations are accessible with rubber tire drill rigs.



USGS well
★

ARIZONA DEPARTMENT OF WATER RESOURCES

Phoenix, Arizona 85007

DRILLING CARD

ANY DEVIATION IN WELL LOCATION FROM THE PLOT PLAN APPROVED FROM THE COUNTY OR LOCAL HEALTH AUTHORITY MUST BE RE-SUBMITTED FOR APPROVAL

THIS AUTHORIZATION SHALL BE IN POSSESSION OF THE DRILLER DURING ALL DRILLING OPERATIONS

WELL REGISTRATION NO: **55-924770**

AUTHORIZED DRILLER: **DRILL-TECH, INC.**

LICENSE NO: **239**

NOTICE OF INTENT TO DRILL A **ENV - MONITOR WELL** HAS BEEN FILED WITH THE DEPARTMENT BY:

WELL OWNER: **EFR ARIZONA STRIP LLC**

ADDRESS: **225 UNION BLVD. STE. 600, LAKEWOOD, CO, 80228**

THE WELL(S) IS/ARE TO BE LOCATED IN THE:

SW 1/4 of the SE 1/4 of the NW 1/4 Section 20 Township 29 N Range 03 E

NO. OF WELLS IN THIS PROJECT: **1**

THIS AUTHORIZATION EXPIRES AT MIDNIGHT ON THE DAY OF **8/21/2021**

THE DRILLER MUST FILE A WELL DRILLER REPORT AND WELL LOG WITHIN 30 DAYS OF COMPLETION OF DRILLING



This drilling or abandonment authority was granted based upon the certifications made by the above-named Driller in the notice of intent to drill or abandon. Those certifications, along with any variances granted, are listed below. By drilling or abandoning the well pursuant to this authorization, the above-named driller acknowledges the accuracy of the driller certifications. If the certifications are in error, this authorization is invalid and driller must contact the Department of Water Resource's NOI Section in writing at the address above to correct.

Variance(s) Granted To Driller: **None**

Certification(s) Made By Driller:

- By checking this box, I certify that I have all necessary Registrar of Contractor (ROC) licenses in all necessary license categories for this drilling or abandonment project and that those licenses are current.
- By checking this box, I certify that I have been authorized by the above-named well owner to submit this Notice of Intent on the well owner's behalf.
- By checking this box, I certify that the information above is complete and correct, and that the well shall be drilled or abandoned in compliance with all pertinent statutes and rules, including any special standards that may be required to protect the aquifer or other water sources.
- By checking this box, I certify that this NOI application is not an application to replace, deepen, or modify an existing well.
- By checking this box, I understand that the Authorization to drill this well DOES NOT constitute or guarantee an approval to use the well for the purpose of withdrawing groundwater for transportation to an Active Management Area (AMA) pursuant to A.R.S. § 45-552, 45-553, 45-554 or 45-555(A) without official prior approval from the

Department.



If the landowner and the well owner are not the same, by checking this box, I certify that I have obtained written approval from the landowner in order to conduct this drilling or abandonment project. A copy of the written approval shall be submitted to ADWR with the Well Driller Report and Well Log or Well Abandonment Completion Report within 30 days of completion of drilling or abandonment.

ARIZONA DEPARTMENT OF WATER RESOURCES
Electronic Filing - NOI Report

Phoenix, Arizona

NOI Type: Notice of Intent to Drill, Deepen, Modify a Monitor/Piezometer/Environmental Well
Well Type: ENV - MONITOR
Date Received at ADWR Website: 8/21/2020

Fee Paid: \$150.00 Order Number: -13130

Well Registration Number: 55 - 924770
Number of Wells/Holes: 1 Drilling Authority Expires On: 8/21/2021

Driller's ADWR License Number: 239
Authorized Driller: DRILL-TECH, INC.
ROC License Number Entered By Driller: 120370, 277443
Qualifying Party License Categories: A-4, R-53

Well Owner Name: EFR ARIZONA STRIP LLC
Well Owner Address: 225 UNION BLVD. STE. 600
Well Owner City, State - Zip: LAKEWOOD, CO - 80228
Well Owner Phone: 303 974-2140

Date Construction is Scheduled to Begin: 8/28/2020

Book: 0 Map: 0 Parcel: 0

Is the Land Owner the same as the Well Owner?: No

Land Owner Name: KAIBAB NATIONAL FOREST
Land Owner Address: 800 S. 6TH ST.
Land Owner City, State - Zip: WILLIAMS, AZ - 86046
Land Owner Phone: 928 635-8367

Well Location: **SW** 1/4 of the **SE** 1/4 of the **NW**1/4 Section **20** Township **29 N** Range **3 E**

AMA: NOT WITHIN ANY AMA OR INA
County: COCONINO
Contamination Site: NOT IN A REMEDIAL ACTION SITE

Depth: 1160
Diameter: 6
Type of Casing of Proposed Well: PVC

Primary Water Use: **MONITORING**
Secondary Water Use(s): **N/A**

Is any portion of the land, on which the well is to be located, within 100 feet of a designated municipal provider's operating water distribution system as shown on the municipal provider's most recent digitized service area map filed by the municipal provider with the director of ADWR. **N/A**

Will you be installing a dedicated pump?: **N/A**

Will the installed pump have a pumping capacity of greater than 35 GPM, or will the well will be used to withdraw greater than 10 Acre Feet per year? **N/A**

Variance(s) Granted To Driller: **None**

Certification(s) Made By Driller:

- By checking this box, I certify that I have all necessary Registrar of Contractor (ROC) licenses in all necessary license categories for this drilling or abandonment project and that those licenses are current.
- By checking this box, I certify that I have been authorized by the above-named well owner to submit this Notice of Intent on the well owner's behalf.
- By checking this box, I certify that the information above is complete and correct, and that the well shall be drilled or abandoned in compliance with all pertinent statutes and rules, including any special standards that may be required to protect the aquifer or other water sources.
- By checking this box, I certify that this NOI application is not an application to replace, deepen, or modify an existing well.
- By checking this box, I understand that the Authorization to drill this well DOES NOT constitute or guarantee an approval to use the well for the purpose of withdrawing groundwater for transportation to an Active Management Area (AMA) pursuant to A.R.S. § 45-552, 45-553, 45-554 or 45-555(A) without official prior approval from the Department.
- If the landowner and the well owner are not the same, by checking this box, I certify that I have obtained written approval from the landowner in order to conduct this drilling or abandonment project. A copy of the written approval shall be submitted to ADWR with the Well Driller Report and Well Log or Well Abandonment Completion Report within 30 days of completion of drilling or abandonment.

NOTICE

A.R.S. § 41-1030(B), (D), (E) and (F) provide as follows:

- B. An agency shall not base a licensing decision in whole or in part on a licensing requirement or condition that is not specifically authorized by statute, rule or state tribal gaming compact. A general grant of authority in statute does not constitute a basis for imposing a licensing requirement or condition unless a rule is made pursuant to that general grant of authority that specifically authorizes the requirement or condition.
- D. This section may be enforced in a private civil action and relief may be awarded against the state. The court may award reasonable attorney fees, damages and all fees associated with the license application to a party that prevails in an action against the state for a violation of this section.
- E. A state employee may not intentionally or knowingly violate this section. A violation of this section is cause for disciplinary action or dismissal pursuant to the agency's adopted personnel policy.
- F. This section does not abrogate the immunity provided by section 12-820.01 or 12-820.02.



Arizona Department of Water Resources
 Groundwater Permitting and Wells
 PO Box 36020 • Phoenix, Arizona 85067-6020
 (602) 771-8527 • 602-771-8500
www.azwater.gov

Well Driller Report and Well Log

**THIS REPORT MUST BE FILED WITHIN 30 DAYS OF COMPLETING THE WELL.
PURSUANT TO ARIZONA REVISED STATUTE 45-600 AND A.A.C. RULE R12-15-808.**

FILE NUMBER A(29-3) 20 BDC
WELL REGISTRATION NUMBER 55 - 924770
PERMIT NUMBER (IF ISSUED)

WELL DRILLER LOGS AND REPORTS CAN ALSO BE DONE ONLINE AT:
http://www.azwater.gov/eForms/Forms/DL/DWR_DL.aspx

SECTION 1. DRILLING AUTHORIZATION							
Drilling Firm							
Mail To:	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%; padding: 2px;">NAME DRILL-TECH, INC.</td> <td style="width: 60%; padding: 2px;">DWR LICENSE NUMBER 239</td> </tr> <tr> <td style="padding: 2px;">ADDRESS 3320 N. HIGHWAY 89</td> <td style="padding: 2px;">TELEPHONE NUMBER 928-636-8006</td> </tr> <tr> <td style="padding: 2px;">CITY / STATE / ZIP CHINO VALLEY, AZ, 86323-3568</td> <td style="padding: 2px;">FAX</td> </tr> </table>	NAME DRILL-TECH, INC.	DWR LICENSE NUMBER 239	ADDRESS 3320 N. HIGHWAY 89	TELEPHONE NUMBER 928-636-8006	CITY / STATE / ZIP CHINO VALLEY, AZ, 86323-3568	FAX
NAME DRILL-TECH, INC.	DWR LICENSE NUMBER 239						
ADDRESS 3320 N. HIGHWAY 89	TELEPHONE NUMBER 928-636-8006						
CITY / STATE / ZIP CHINO VALLEY, AZ, 86323-3568	FAX						

SECTION 2. REGISTRY INFORMATION						
Well Owner			Location of Well			
FULL NAME OF COMPANY, ORGANIZATION, OR INDIVIDUAL EFR ARIZONA STRIP LLC			WELL LOCATION ADDRESS (IF ANY)			
MAILING ADDRESS 225 UNION BLVD. STE. 600			TOWNSHIP (N/S)	RANGE (E/W)	SECTION	160 ACRE 1/4
CITY / STATE / ZIP LAKEWOOD, CO, 80228			LATITUDE DEGREES	MINUTES	SECONDS	LONGITUDE DEGREES
CONTACT PERSON NAME AND TITLE			METHOD OF LATITUDE/LONGITUDE (CHECK ONE) <input type="checkbox"/> *GPS: Hand-Held <input type="checkbox"/> *GPS: Survey-Grade <input type="checkbox"/> TOPO			
TELEPHONE NUMBER 303 974-2140		FAX		*LATITUDE/LONGITUDE DATUM, GPS (CHECK ONE) <input type="checkbox"/> NAD83 <input type="checkbox"/> NAD27 <input type="checkbox"/> WGS84 <input type="checkbox"/> Other _____		
WELL NAME (e.g., MW-1, PZ-3, lot 25 Well, Smith Well, etc.)			METHOD OF ELEVATION (CHECK ONE) <input type="checkbox"/> *GPS: Hand-Held <input type="checkbox"/> *GPS: Survey-Grade <input type="checkbox"/> TOPO			
COUNTY COCONINO	ASSESSOR'S PARCEL ID NUMBER (MOST RECENT) BOOK MAP PARCEL 0 0 0		LAND SURFACE ELEVATION AT WELL ELEVATION _____ Feet Above Sea Level *ELEVATION DATUM (CHECK ONE) <input type="checkbox"/> NAVD88 <input type="checkbox"/> NGVD29 <input type="checkbox"/> OTHER _____			

SECTION 3. WELL CONSTRUCTION DETAILS		
Drilling Method	Method of Well Development	Method of Sealing at Reduction Points
CHECK ONE <input type="checkbox"/> Air Rotary <input type="checkbox"/> Bored or Augered <input type="checkbox"/> Cable Tool <input type="checkbox"/> Dual Rotary <input type="checkbox"/> Mud Rotary <input type="checkbox"/> Reverse Circulation <input type="checkbox"/> Driven <input type="checkbox"/> Jetted <input type="checkbox"/> Air Percussion / Odex Tubing <input type="checkbox"/> Other (please specify)	CHECK ONE <input type="checkbox"/> Airlift <input type="checkbox"/> Bail <input type="checkbox"/> Surge Block <input type="checkbox"/> Surge Pump <input type="checkbox"/> Other (please specify)	CHECK ONE <input type="checkbox"/> None <input type="checkbox"/> Packed <input type="checkbox"/> Swedged <input type="checkbox"/> Welded <input type="checkbox"/> Other (please specify)
	Condition of Well	Construction Dates
	CHECK ONE <input type="checkbox"/> Capped <input type="checkbox"/> Abandoned <input type="checkbox"/> Pump Installed <input type="checkbox"/> Not Drilled	DATE WELL CONSTRUCTION STARTED
		DATE WELL CONSTRUCTION COMPLETED

I state that this notice is filed in compliance with A.R.S. § 45-596 and is complete and correct to the best of my knowledge and belief.

SIGNATURE OF QUALIFYING PARTY	DATE
-------------------------------	------



Well Driller Report and Well Log

Introduction

These instructions are a guide to filling out Form DWR 55-55 (Rev. 06/15/2010), entitled "Well Driller Report and Well Log." Please review the instructions prior to completing the form in black or blue ink. Forms may be obtained at any Arizona Department of Water Resources (ADWR) office and at ADWR's web site, <http://www.azwater.gov>. For information about the form or these instructions, contact Groundwater Permitting & Wells at (602) 771-8500. There is no fee for filing this form.

When Form DWR 55-55 Must be Filed

Within 30 days after completion of the drilling, deepening or modification of a well, the licensed well driller who performed the work must file a Well Driller Report and Log with ADWR. Because the information in the report describes the well as it was actually constructed, and comes from the person who constructed the well, the information is very valuable to ADWR. For that reason, it is very important to fill out the report with the most accurate information possible.

Instructions for Filling out the Form

Well Registration and Permit Numbers

Fill in the registration number of the well and any ADWR permit number associated with the well in the upper right-hand corner of the first page. Also fill in the well registration number in the upper right-hand corner of all other pages so that the well information on those pages can be identified when the pages are separated during computer imaging.

Section 1 - Drilling Authorization

Fill in the name, address, DWR license number and telephone and fax numbers of the drilling firm filing the report.

Section 2 - Registry Information

Well Owner

Fill in the name, mailing address, telephone number and fax number (if available) of the well owner. If the well owner is a corporation, governmental unit or other entity, provide the name of a contact person.

Location of Well

Fill in the following information relating to the location of the well:

- The street address of the property where the well is located. For monitor wells or other wells associated with contaminant investigations or remedial projects, this will usually be the same as the facility address.
- The legal description of the well site. The legal description is the township, range, section, and in decreasing order, the quarters of that section so that the well location falls in a 10-acre block within that section. Normally, the legal description will be the same as that given in the original Notice of Intent to drill the well, but occasionally a more accurate description is discovered after the Notice is filed.
- The latitude and longitude (in degrees-minutes-seconds format) and land surface elevation at the well, and the method used to determine these data. **Please note this information is mandatory.** Use of a Global Positioning System (GPS) receiver is the only method accepted by the Department. The GPS unit should be adjusted to use the NAD-83 datum. Please indicate if the geographic coordinate datum used was NAD-83, and if not, which datum was used.
- The name of the county and the tax assessor's parcel identification number for the land where the well is located. This information can normally be taken from the original Notice of Intent to drill the well, and may also be obtained from the county tax assessor's office. Federal or State land will not have a parcel identification number.

Section 3 - Well Construction Details

Section 3 requires details on the construction of the well. Indicate the drill method by checking the appropriate box. If the drill method is not listed, check the "Other" box and describe the method. To the right of that, indicate the method of well development by checking the

appropriate box. Next, indicate the method of sealing at reduction points. If the method used is not listed, check "Other" and provide a brief explanation. Under *Well Driller Completion Report and Well Log Form 55-55 Instructions (Rev. 06/2010) Page 2*

Condition of Well, indicate whether the well was capped, or a pump was installed, when you left it. Then fill in the date when well construction started, and the date when well construction was completed.

Signature Block

The form must be signed and dated by the qualifying party of the drilling firm.

Section 4 - Well Construction Design (As Built)

Section 4 contains tables to fill in information on the existing borehole, the installed casing and the installed annular material. The tables are broken down by depth interval.

In the first set of boxes, fill in the depth of the boring and the depth of the completed well, as measured in feet below the land surface.

Under **Water Level Information** please indicate the static water level in the well, as measured in feet below the land surface, and the date and time the water level was measured. If the well is a flowing well, include the method by which the artesian flow is regulated.

In the **Borehole** table, fill in the diameter of the borehole in inches, and indicate the depth interval for each change in diameter. In the **Installed Casing** table, fill in the outer diameter of the casing in inches, check the appropriate boxes indicating the type of casing material and the type of perforations, and fill in the slot size of any perforations. Fill in the depth interval for each change in information. Please note that not every interval will be perforated. Check the "Blank or None" box for non-perforated depth intervals. If the type of casing material or perforations is not listed, describe the type in the appropriate box.

In the **Installed Annular Material** table, check the appropriate boxes indicating the type of annular material or filter pack installed at each depth interval. Fill in the size of the filter pack used. Provide the depth interval for each change in information. If the type of annular material is not listed, describe the material in the appropriate box.

Section 5 - Geologic Log of Well

Section 5 requires the geologic or lithologic log of the well. Describe the various units encountered during drilling. Provide as much description as possible. The

log description must be broken down by depth intervals below ground surface, and every interval where groundwater, including perched groundwater, was encountered must be checked. If a consulting firm was involved with the well construction, the consultant's lithologic log may be submitted in lieu of completing Section 5.

Section 6 - Well Site Plan

In the boxes at the top of Section 6, fill in the name of the well owner and the county tax assessor's parcel identification number for the land where the well is located. Below that, provide a scale drawing of where the well was actually constructed on the parcel, illustrating the property boundaries, the well location and any structures on the property. The drawing must also show the location of any septic tank or sewer systems on the property or within 100 feet of the well, even if on neighboring property, and the distance between the well and the septic tank or sewer system. The drawing should closely match the drawing on the original Notice of Intent to drill the well, but the purpose of this drawing is to show where the well was actually drilled, especially if the location is different than originally planned. This information will be shared with the county.

Where to File Form

Completed forms may be mailed to ADWR at the following address:

Arizona Department of Water Resources
Groundwater Permitting and Wells
PO Box 36020
Phoenix, AZ 85067-6020

Completed forms may also be submitted to ADWR's main office at 1110 W. Washington St. Suite 310., Phoenix, AZ 85007.

The completed form must be legible and of good quality when received by ADWR so that it can be scanned into ADWR's permanent records.

ARIZONA DEPARTMENT of WATER RESOURCES
1110 W. Washington St. Suite 310
Phoenix, AZ 85007
602-771-8500
azwater.gov



DOUGLAS A. DUCEY
Governor

THOMAS BUSCHATZKE
Director

August 21, 2020

EFR ARIZONA STRIP LLC
225 UNION BLVD. STE. 600
LAKEWOOD, CO 80228

Registration No. 55- 924770
File Number: A(29-3) 20 BDC

Dear Well Applicant:

Enclosed is a copy of the Notice of Intention to Drill (NOI) a well which you or your driller recently filed with the Department of Water Resources. This letter is to inform you that the Department has approved the NOI and has mailed, or made available for download, a drilling authorization card to your designated well drilling contractor. The driller may not begin drilling until he/she has received the authorization, and must keep it in their possession at the well site during drilling. Although the issuance of this drill card authorizes you to drill the proposed well under state law, the drilling of the well may be subject to restrictions or regulations imposed by other entities.

Well drilling activities must be completed within one year after the date the NOI was filed with the Department. If drilling is not completed within one year, a new NOI must be filed and authorization from this Department received before proceeding with drilling. If the well cannot be successfully completed as initially intended (dry hole, cave in, lost tools, etc.), the well must be properly abandoned and a Well Abandonment Completion Report must be filed by your driller [as required by A.A.C. R12-15-816(F)].

If you change drillers, you must notify the Department of the new driller's identity on a Request to Change Well Drilling Contract (form 55-71B). Please ensure that the new driller is licensed by the Department to drill the type of well you require. A new driller may not begin drilling until he/she receives a new drilling authorization card from the Department. Forms may be obtained by contacting the Department, or online at: <https://new.azwater.gov/permitting-wells/well-forms-and-applications>.

If you find it necessary to change the location of the proposed well(s), you may not proceed with drilling until you file an amended NOI with the Department. An amended drilling authorization card will then be issued to the well drilling contractor, which must be in their possession before drilling begins.

Arizona statute [A.R.S. § 45-600] requires registered well owners to file a Pump Installation Completion Report (form 55-56) with the Department within 30 days after the installation of pumping equipment, if authorized. A blank report is enclosed for your convenience. State statute also requires the driller to file a complete and accurate Well Drillers Report and Well Log (form 55-57) within 30 days after completion of drilling. A blank report form was provided to your driller with the drilling authorization card. You should insist and ensure that all of the required reports are accurately completed and timely filed with the Department.

Please be advised that Arizona statute [A.R.S. § 45-593(C)] requires a registered well owner to notify the Department of a change in ownership of the well and/or information pertaining to the physical characteristics of the well in order to keep this well registration file current and accurate. Any change in well information must be filed on a Request to Change Well Information form (form 55-71A). Forms may be obtained by contacting the Department, or online at: <https://new.azwater.gov/permitting-wells/well-forms-and-applications>.

Sincerely,

Groundwater Permitting and Wells Section

ARIZONA DEPARTMENT of WATER RESOURCES
1110 W. Washington St. Suite 310
Engineering and Permits Division
Phoenix, AZ 85007
602-771-8500

NOTICE TO WELL DRILLERS

This is a reminder that a valid drill card must be present for the drilling of each and every well constructed on a site. During the construction of a well, if an unexpected problem occurs; the hole collapses, the hole is dry, or a drill bit is lost and can't be recovered, or any number of other situations where the driller feels they need to move over and start another well. Please be aware drillers do not have the authority to start another well without first obtaining drilling authority for the new well. Please note the following statutes and regulations pertaining to well drilling and construction:

ARIZONA REVISED STATUTE (A.R.S.)

A.R.S. § 45-592.A.

A person may construct, replace or deepen a well in this state only pursuant to this article and section 45-834.01. The drilling of a well may not begin until all requirements of this article and section 45-834.01, as applicable, are met.

A.R.S. § 594.A.

The director shall adopt rules establishing construction standards for new wells and replacement wells, the deepening and abandonment of existing wells and the capping of open wells.

A.R.S. § 600.A

A well driller shall maintain a complete and accurate log of each well drilled.

ARIZONA ADMINISTRATIVE CODE (A.A.C.)

A.A.C. R12-15-803.A.

A person shall not drill or abandon a well, or cause a well to be drilled or abandoned, in a manner which is not in compliance with A.R.S. Title 45, Chapter 2, Article 10, and the rules adopted thereunder.

A.A.C. R12-15-810.A.

A well drilling contractor or single well licensee may commence drilling a well only if the well drilling contractor or licensee has possession of a drilling card at the well site issued by the Director in the name of the well drilling contractor or licensee, authorizing the drilling of the specific well in the specific location.

A.A.C. R12-15-816.F.

In the course of drilling a new well, the well may be abandoned without first filing a notice of intent to abandon and without an abandonment card.

*** THIS REQUIREMENT DOES NOT PERTAIN TO THE DRILLING OF MINERAL EXPLORATION, GEOTECHNICAL OR HEAT PUMP BOREHOLES**



Arizona Department of Water Resources
 Groundwater Permitting and Wells Section
 PO Box 36020 , Phoenix, AZ 85067-6020
 (602) 771-8527 • 1-800-352-8488
www.azwater.gov

Landowner Authorization to Drill or Abandon a Well on Landowner's Parcel

Landowner Authorization to Drill or Abandon a Well by a Third Party on Landowner's Parcel Pursuant to A.R.S. § 45-596 and A.A.C. R12-15-809

FILE NUMBER A(29-3) 20 BDC
WELL REGISTRATION NUMBER 55 - 924770

The Arizona Department of Water Resources requires a well driller or well owner to obtain written permission from the owner of the land on which they intend to drill or abandon a well. Landowners, or their designated representative, must authorize the well to be drilled or abandoned with their signature on the Notice of Intent or on this form, to be attached to the Notice of Intent form.

PARCEL ADDRESS _____

COUNTY PARCEL ID 0 - 0 - 0 COUNTY COCONINO
 BOOK MAP PARCEL

In accordance with A.R.S. § 45-496 and A.A.C. R12-15-809, I certify that:

- I am the owner of the parcel on which I am giving permission for a well to be drilled or abandoned.
- I am an authorized representative of the owner of the parcel on which I am giving permission for a well to be drilled or abandoned.

SIGNATURE

TYPE OR PRINT NAME OF LANDOWNER / REPRESENTATIVE	TITLE
SIGNATURE	DATE SIGNED



Arizona Department of Water Resources
 Information Management Unit
 PO Box 36020 • Phoenix, Arizona
 (602) 771-8527 • 602-771-8500

Well Driller Report and Well Log

WELL REGISTRATION NUMBER 55- 924771	FILE NUMBER A(29-3) 20 CAB
---	--------------------------------------

SECTION 1. DRILLING AUTHORIZATION

Drilling Firm

Mail To:	NAME DRILL-TECH, INC.	DWR LICENSE NUMBER 239
	ADDRESS 3320 N. HIGHWAY 89	TELEPHONE NUMBER 928-636-8006
	CITY / STATE / ZIP CHINO VALLEY, AZ 86323-3568	FAX

SECTION 2. REGISTRY INFORMATION

Well Owner

Location of Well

FULL NAME OF COMPANY, ORGANIZATION, OR INDIVIDUAL EFR ARIZONA STRIP LLC		WELL LOCATION ADDRESS (IF ANY) KAIBAB NATIONAL FOREST					
MAILING ADDRESS 225 UNION BLVD. STE 600		TOWNSHIP (N/S) 29N	RANGE (E/W) 3E	SECTION 20	160 ACRE SW 1/4	40 ACRE NE 1/4	10 ACRE NW 1/4
CITY / STATE / ZIP LAKEWOOD, CO 80228		LATITUDE		*N	LONGITUDE		*W
CONTACT PERSON NAME AND TITLE		METHOD OF LATITUDE/LONGITUDE (CHECK ONE) <input type="checkbox"/> *GPS: Hand-Held <input type="checkbox"/> *GPS: Survey Grade <input type="checkbox"/> TOPO <input type="checkbox"/> Website Map					
TELEPHONE NUMBER 303-974-2140	FAX	*LATITUDE/LONGITUDE DATUM, GPS <input type="checkbox"/> NAVD83 <input type="checkbox"/> NGVD27 <input type="checkbox"/> WGS84 <input type="checkbox"/> Other					
WELL NAME (e.g., MW-1, PZ-3, lot 25 Well, Smith Well, etc.)		METHOD OF ELEVATION (CHECK ONE) <input type="checkbox"/> *GPS: Hand-Held <input type="checkbox"/> *GPS: Survey Grade <input type="checkbox"/> TOPO <input type="checkbox"/> Website Map					
COUNTY COCONINO	ASSESSOR'S PARCEL ID NUMBER (MOST RECENT)		LAND SURFACE ELEVATION AT WELL				
	BOOK 0	MAP 0	PARCEL 0	ELEVATION FEET ABOVE SEA LEVEL			
			*Elevation Datum <input type="checkbox"/> NAVD88 <input type="checkbox"/> NGVD29 <input type="checkbox"/> Other				

SECTION 3. WELL CONSTRUCTION DETAILS

Drilling Method	Method of Well Development	Method of Sealing at Reduction Points
<input checked="" type="checkbox"/> Air Rotary <input type="checkbox"/> Bored or Augered <input type="checkbox"/> Cable Tool <input type="checkbox"/> Dual Rotary <input type="checkbox"/> Mud Rotary <input type="checkbox"/> Rotary <input type="checkbox"/> Reverse Circulation <input type="checkbox"/> Driven <input type="checkbox"/> Jetted <input type="checkbox"/> Air Percussion/Odex Tubing <input type="checkbox"/> Other	<input checked="" type="checkbox"/> Airlift <input type="checkbox"/> Bail <input type="checkbox"/> Surge Block <input type="checkbox"/> Surge Pump <input type="checkbox"/> Other	CHECK ONE <input type="checkbox"/> None <input type="checkbox"/> Packed <input type="checkbox"/> Swedged <input checked="" type="checkbox"/> Welded <input type="checkbox"/> Other (please specify)
	Condition of Well	Construction Dates
	CHECK ONE <input type="checkbox"/> Capped <input checked="" type="checkbox"/> Pump Installed <input type="checkbox"/> Abandoned	DATE WELL CONSTRUCTION STARTED 10/5/2020 DATE WELL CONSTRUCTION COMPLETED 10/13/2020

SECTION 4. WELL CONSTRUCTION DESIGN (AS BUILT)

Depth			
DEPTH OF BORING	1145	Feet Below Land Surface	DEPTH OF COMPLETED WELL
			920
			Feet Below Land Surface

Water Level Information			
STATIC WATER LEVEL	DATE MEASURED	TIME MEASURED	IF FLOWING WELL, METHOD OF FLOW REGULATION
980	11/30/2020		<input type="checkbox"/> Valve <input type="checkbox"/> Other:
Feet Below Land Surface			

Borehole			Installed Casing													
DEPTH FROM SURFACE		BOREHOLE DIAMETER (inches)	DEPTH FROM SURFACE		OUTER (inches)	MATERIAL TYPE (T)				PERFORATION TYPE (T)					SLOT SIZE (inches) Width x Length	
FROM (feet)	TO (feet)		FROM (feet)	TO (feet)		STEEL	PVC	ABS	IF OTHER TYPE, DESCRIBE	BLANK OR NONE	WIRE WRAP	SHUTTER SCREEN	MILLS KNIFE	SLOTTED		IF OTHER TYPE, DESCRIBE
0	20	15	0	920	6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
20	920	8.75	0	20	10	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
920	1145	6														

Installed Annular Material												
DEPTH FROM SURFACE		ANNULAR MATERIAL TYPE (T)									FILTER PACK	
FROM (feet)	TO (feet)	NONE	CONCRETE	NEAT CEMENT OR CEMENT GROUT	CEMENT-BENTONITE GROUT	BENTONITE			IF OTHER TYPE OF ANNULAR MATERIAL, DESCRIBE	SAND	GRAVEL	SIZE (Inches) Width x Length
						GROUT	CHIPS	PELLETS				
0	20	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	

SECTION 5. GEOLOGIC LOG OF WELL			
DEPTH FROM SURFACE		Description Describe material, grain size, color, etc.	Check (Y) every interval where water was encountered (if known)
FROM (feet)	TO (feet)		
0	40	RED SHALE	N
40	360	KIABAB LIMESTONE / 80' 1/2 GPM	Y
360	560	TOOROWEAP LIMESTONE / 550' 2 GPM	Y
560	1128	COCONINO LIMESTONE / 920' 3 GPM	Y
1128	1145	HERMIT SHALE	N

DRILLER'S NOTES
920' - 1145' OPEN HOLE

I state that this notice is filed in compliance with A.R.S. § 45-596 and is complete and correct to the best of my knowledge and belief.

Prepared By: KIMBERLY HORNE **Date: 4/26/2022 11:20:28 AM**



Arizona Department of Water Resources
 Groundwater Permitting and Wells Section
 P.O. Box 36020, Phoenix, AZ 85067-6020
 (602) 771-8527 • Fax (602) 771-8689
 www.azwater.gov

Pump Installation Completion Report

- ❖ Review instructions prior to completing form in black or blue ink.
- ❖ The registered well owner should file this report with the Department within 30 days following installation of pump equipment.

FILE NUMBER

WELL REGISTRATION NUMBER

55 - 924771

** PLEASE PRINT CLEARLY **

MAR 09 2021

SECTION 1. REGISTRY INFORMATION

Well Owner		Location of Well					
FULL NAME OF COMPANY, ORGANIZATION, OR INDIVIDUAL EFR Arizona Strip LLC		WELL LOCATION ADDRESS (IF ANY) Kaibab National Forest, South Well					
MAILING ADDRESS 225 Union Blvd, Suite 600		TOWNSHIP (N/S) 29N	RANGE (E/W) 03E	SECTION 20	160 ACRE NW ¼	40 ACRE NE ¼	10 ACRE SW ¼
CITY / STATE / ZIP CODE Lakewood, CO 80228		COUNTY ASSESSOR'S PARCEL ID NUMBER (MOST RECENT)					
CONTACT PERSON NAME AND TITLE Scott Bakken, VP Regulatory Affairs		BOOK 0	MAP	0	PARCEL 0	COUNTY WHERE WELL IS LOCATED COCONINO	
TELEPHONE NUMBER 303-389-4132	FAX						

SECTION 2. EQUIPMENT INSTALLED

DATE PUMP INSTALLED 12/21/2020	Pitless Adaptor	
Pump Type	CHECK ONE (SEE INSTRUCTIONS FOR DEFINITION)	
CHECK ONE	Was a pitless adaptor installed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
<input type="checkbox"/> Air Lift	<input type="checkbox"/> Rotary	IF YES, DEPTH BELOW GROUND LEVEL THE DEVICE WAS INSTALLED
<input type="checkbox"/> Bucket	<input checked="" type="checkbox"/> Submersible	Feet
<input type="checkbox"/> Centrifugal	<input type="checkbox"/> Turbine	Power Type
<input type="checkbox"/> Jet	<input type="checkbox"/> Other (please specify):	CHECK ONE
<input type="checkbox"/> Piston		<input type="checkbox"/> Diesel Engine
RATED PUMP CAPACITY 7 GPM	Gallons Per Minute	<input checked="" type="checkbox"/> Electric Motor
		<input type="checkbox"/> Gasoline Engine
		<input type="checkbox"/> Hand
		<input type="checkbox"/> Natural Gas
		<input type="checkbox"/> Windmill
		<input type="checkbox"/> Other (please specify):
		HORSE POWER RATING OF MOTOR 5 HP

SECTION 3. PUMP TEST

Pump Test Data	Method of Discharge Measurement	Method of Measuring Water Level
DATE WELL TESTED N/A	CHECK ONE	CHECK ONE
STATIC WATER LEVEL (A) 955 Feet Below Land Surface	<input type="checkbox"/> Bailer	<input type="checkbox"/> Air Line
PUMPING WATER LEVEL (B) N/A Feet Below Land Surface	<input type="checkbox"/> Bucket - Barrel - Stopwatch	<input checked="" type="checkbox"/> Electric Measuring Line (Sonder)
DRAWDOWN [(B) - (A)] N/A Feet Below Land Surface	<input type="checkbox"/> Current	<input type="checkbox"/> Steel Tape
TEST PUMPING RATE 5 GPM Gallons Per Minute	<input type="checkbox"/> Estimated - Air Lift	<input type="checkbox"/> Other (please specify):
DURATION OF PUMP TEST (Minimum 4 Hours) 5 MINUTES Hours	<input type="checkbox"/> Gauge	
TOTAL PUMPING LIFT 955 Feet	<input type="checkbox"/> Meter	
FOR FLOWING WELL, MEASURED SHUT IN HEAD N/A	<input type="checkbox"/> Orifice	
	<input type="checkbox"/> Volume	
	<input type="checkbox"/> Weir - Flume	
	<input checked="" type="checkbox"/> Other (please specify): No Pump Test, Pump was operated by Drill-Tech but no drawdown data was recorded	

I HEREBY CERTIFY that the above statements are true to the best of my knowledge and belief according to A.R.S. § 45-600(B).

SIGNATURE OF WELL OWNER

[Signature]

DATE

3/2/21



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

March 2, 2021

Via Express Delivery

Arizona Department of Water Resources
Groundwater Permitting and Wells Section
P.O. Box 36020
Phoenix, AZ 85067-6020

MAR 09 2021
RECEIVED

**RE: Well Registration Numbers 55-924769, 55-924770, and 55-924771
Pump Installation Completion Reports**

Dear Sir or Madam:

Attached please find copies of the Pump Installation Completion Reports for Well Registration Numbers 55-924769, 55-924770, and 55-924771.

Please contact me at 303-389-4132 or sbakken@energyfuels.com if you have any questions or need additional information.

Sincerely,

A handwritten signature in blue ink, appearing to read 'SBakken'.

ENERGY FUELS RESOURCES (USA) INC.
Scott A. Bakken
Vice President, Regulatory Affairs

cc: M. Germansen, K. Weinel, D. Kolkman (EFRI)



Arizona Department of Water Resources
Groundwater Permitting and Wells
PO Box 36020 • Phoenix, Arizona 85067-6020
(602) 771-8527 • 602-771-8500
www.azwater.gov

NOV 21 2020

Arizona Department of Water Resources

**Well Driller Report
and
Well Log**

MR

**THIS REPORT MUST BE FILED WITHIN 30 DAYS OF COMPLETING THE WELL.
PURSUANT TO ARIZONA REVISED STATUTE 45-600 AND A.A.C. RULE R12-15-808.**

WELL DRILLER LOGS AND REPORTS CAN ALSO BE DONE ONLINE AT:
http://www.azwater.gov/eForms/Forms/DL/DWR_DL.aspx

FILE NUMBER	A(29-3) 20 CAB
WELL REGISTRATION NUMBER	55 - 924771
PERMIT NUMBER (IF ISSUED)	

SECTION 1. DRILLING AUTHORIZATION

Drilling Firm		
Mail To:	NAME DRILL-TECH, INC.	DWR LICENSE NUMBER 239
	ADDRESS 3320 N. HIGHWAY 89	TELEPHONE NUMBER 928-636-8006
	CITY / STATE / ZIP CHINO VALLEY, AZ, 86323-3568	FAX

SECTION 2. REGISTRY INFORMATION

Well Owner				Location of Well			
FULL NAME OF COMPANY, ORGANIZATION, OR INDIVIDUAL EFR ARIZONA STRIP LLC				WELL LOCATION ADDRESS (IF ANY) SOUTH WELL			
MAILING ADDRESS 225 UNION BLVD. STE 600		TOWNSHIP (N/S) 29N	RANGE (E/W) 03E	SECTION 20	160 ACRE NW 1/4	40 ACRE NE 1/4	10 ACRE SW 1/4
CITY / STATE / ZIP LAKEWOOD, CO, 80228		LATITUDE		LONGITUDE			
		DEGREES	MINUTES	SECONDS	DEGREES	MINUTES	SECONDS
CONTACT PERSON NAME AND TITLE		METHOD OF LATITUDE/LONGITUDE (CHECK ONE) <input type="checkbox"/> *GPS: Hand-Held <input type="checkbox"/> *GPS: Survey-Grade <input type="checkbox"/> TOPO					
TELEPHONE NUMBER 303 974-2140	FAX	*LATITUDE/LONGITUDE DATUM, GPS (CHECK ONE) <input type="checkbox"/> NAD83 <input type="checkbox"/> NAD27 <input type="checkbox"/> WGS84 <input type="checkbox"/> Other _____					
WELL NAME (e.g., MW-1, PZ-3, lot 25 Well, Smith Well, etc.)		METHOD OF ELEVATION (CHECK ONE) <input type="checkbox"/> *GPS: Hand-Held <input type="checkbox"/> *GPS: Survey-Grade <input type="checkbox"/> TOPO					
COUNTY COCONINO	ASSESSOR'S PARCEL ID NUMBER (MOST RECENT)			LAND SURFACE ELEVATION AT WELL			
	BOOK 0	MAP 0	PARCEL 0	ELEVATION _____ Feet Above Sea Level			
				*ELEVATION DATUM (CHECK ONE) <input type="checkbox"/> NAVD88 <input type="checkbox"/> NGVD29 <input type="checkbox"/> OTHER _____			

SECTION 3. WELL CONSTRUCTION DETAILS

Drilling Method	Method of Well Development	Method of Sealing at Reduction Points
CHECK ONE <input checked="" type="checkbox"/> Air Rotary <input type="checkbox"/> Bored or Augered <input type="checkbox"/> Cable Tool <input type="checkbox"/> Dual Rotary <input type="checkbox"/> Mud Rotary <input type="checkbox"/> Reverse Circulation <input type="checkbox"/> Driven <input type="checkbox"/> Jetted <input type="checkbox"/> Air Percussion / Odex Tubing <input type="checkbox"/> Other (please specify)	CHECK ONE <input checked="" type="checkbox"/> Airlift <input type="checkbox"/> Bail <input type="checkbox"/> Surge Block <input type="checkbox"/> Surge Pump <input type="checkbox"/> Other (please specify)	CHECK ONE <input type="checkbox"/> None <input type="checkbox"/> Packed <input type="checkbox"/> Swedged <input checked="" type="checkbox"/> Welded <input type="checkbox"/> Other (please specify)
	Condition of Well	Construction Dates
	CHECK ONE <input checked="" type="checkbox"/> Capped <input type="checkbox"/> Abandoned <input type="checkbox"/> Pump Installed <input type="checkbox"/> Not Drilled	DATE WELL CONSTRUCTION STARTED 10/05/2020
		DATE WELL CONSTRUCTION COMPLETED 10/13/2020

I state that this notice is filed in compliance with A.R.S. § 45-596 and is complete and correct to the best of my knowledge and belief.

SIGNATURE OF QUALIFYING PARTY 	DATE 11/03/2020
-----------------------------------	---------------------------

SECTION 6. WELL SITE PLAN			
NAME OF WELL OWNER	COUNTY ASSESSOR'S PARCEL ID NUMBER (MOST RECENT)		
EFR ARIZONA STRIP LLC	BOOK 0	MAP 0	PARCEL 0

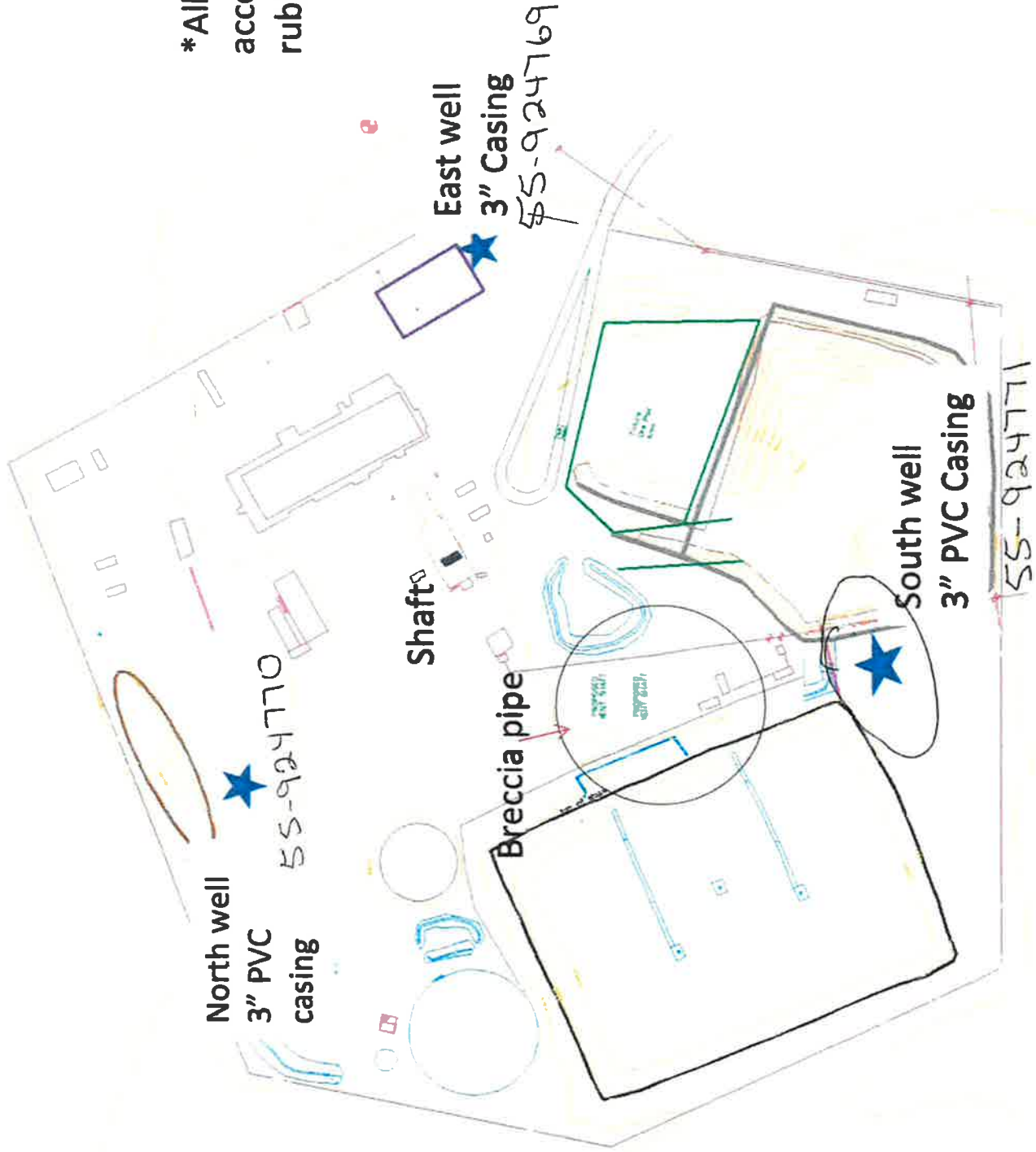
- ◆ Required for all wells, please draw the following: (1) the boundaries of property on which the well was located; (2) the well location; (3) the locations of all septic tank systems and sewer systems on the property or within 100 feet of the well location, even if on neighboring properties; and (4) any permanent structures on the property that may aid in locating the well.
- ◆ Please indicate the distance between the well location and any septic tank system or sewer system.



1" = _____ ft

SEE ATTACHED

*All 3 locations are accessible with rubber tire drill rigs.



USGS well ★

ARIZONA DEPARTMENT OF WATER RESOURCES

Phoenix, Arizona 85007

DRILLING CARD

ANY DEVIATION IN WELL LOCATION FROM THE PLOT PLAN APPROVED FROM THE COUNTY OR LOCAL HEALTH AUTHORITY MUST BE RE-SUBMITTED FOR APPROVAL

THIS AUTHORIZATION SHALL BE IN POSSESSION OF THE DRILLER DURING ALL DRILLING OPERATIONS

WELL REGISTRATION NO: **55-924771**

AUTHORIZED DRILLER: **DRILL-TECH, INC.**

LICENSE NO: **239**

NOTICE OF INTENT TO **DRILL A ENV - MONITOR WELL** HAS BEEN FILED WITH THE DEPARTMENT BY:

WELL OWNER: **EFR ARIZONA STRIP LLC**

ADDRESS: **225 UNION BLVD. STE 600, LAKEWOOD, CO, 80228**

THE WELL(S) IS/ARE TO BE LOCATED IN THE:

NW 1/4 of the NE 1/4 of the SW 1/4 Section 20 Township 29 N Range 03 E

NO. OF WELLS IN THIS PROJECT: **1**

THIS AUTHORIZATION EXPIRES AT MIDNIGHT ON THE DAY OF **8/21/2021**

THE DRILLER MUST FILE A WELL DRILLER REPORT AND WELL LOG WITHIN 30 DAYS OF COMPLETION OF DRILLING



This drilling or abandonment authority was granted based upon the certifications made by the above-named Driller in the notice of intent to drill or abandon. Those certifications, along with any variances granted, are listed below. By drilling or abandoning the well pursuant to this authorization, the above-named driller acknowledges the accuracy of the driller certifications. If the certifications are in error, this authorization is invalid and driller must contact the Department of Water Resource's NOI Section in writing at the address above to correct.

Variance(s) Granted To Driller: **None**

Certification(s) Made By Driller:

- By checking this box, I certify that I have all necessary Registrar of Contractor (ROC) licenses in all necessary license categories for this drilling or abandonment project and that those licenses are current.
- By checking this box, I certify that I have been authorized by the above-named well owner to submit this Notice of Intent on the well owner's behalf.
- By checking this box, I certify that the information above is complete and correct, and that the well shall be drilled or abandoned in compliance with all pertinent statutes and rules, including any special standards that may be required to protect the aquifer or other water sources.
- By checking this box, I certify that this NOI application is not an application to replace, deepen, or modify an existing well.
- By checking this box, I understand that the Authorization to drill this well DOES NOT constitute or guarantee an approval to use the well for the purpose of withdrawing groundwater for transportation to an Active Management Area (AMA) pursuant to A.R.S. § 45-552, 45-553, 45-554 or 45-555(A) without official prior approval from the

Department.



If the landowner and the well owner are not the same, by checking this box, I certify that I have obtained written approval from the landowner in order to conduct this drilling or abandonment project. A copy of the written approval shall be submitted to ADWR with the Well Driller Report and Well Log or Well Abandonment Completion Report within 30 days of completion of drilling or abandonment.

ARIZONA DEPARTMENT OF WATER RESOURCES

Electronic Filing - NOI Report

Phoenix, Arizona

NOI Type: Notice of Intent to Drill, Deepen, Modify a Monitor/Piezometer/Environmental Well

Well Type: ENV - MONITOR

Date Received at ADWR Website: 8/21/2020

Fee Paid: \$150.00

Order Number: -13131

Well Registration Number: 55 - 924771

Number of Wells/Holes: 1

Drilling Authority Expires On: 8/21/2021

Driller's ADWR License Number: 239

Authorized Driller: DRILL-TECH, INC.

ROC License Number Entered By Driller: 120370, 277443

Qualifying Party License Categories: A-4, R-53

Well Owner Name: EFR ARIZONA STRIP LLC

Well Owner Address: 225 UNION BLVD. STE 600

Well Owner City, State - Zip: LAKEWOOD, CO - 80228

Well Owner Phone: 303 974-2140

Date Construction is Scheduled to Begin: 8/28/2020

Book: 0

Map: 0

Parcel: 0

Is the Land Owner the same as the Well Owner?: No

Land Owner Name: KAIBAB NATIONAL FOREST

Land Owner Address: 800 S. 6TH ST

Land Owner City, State - Zip: WILLIAMS, AZ - 86046

Land Owner Phone: 928 635-8367

Well Location: **NW** 1/4 of the **NE** 1/4 of the **SW** 1/4 Section **20** Township **29 N** Range **3 E**

AMA: NOT WITHIN ANY AMA OR INA

County: COCONINO

Contamination Site: NOT IN A REMEDIAL ACTION SITE

Depth: 1160

Diameter: 6

Type of Casing of Proposed Well: Steel

Primary Water Use: **MONITORING**

Secondary Water Use(s): **N/A**

Is any portion of the land, on which the well is to be located, within 100 feet of a designated municipal provider's operating water distribution system as shown on the municipal provider's most recent digitized service area map filed by the municipal provider with the director of ADWR. **N/A**

Will you be installing a dedicated pump?: **N/A**

Will the installed pump have a pumping capacity of greater than 35 GPM, or will the well will be used to withdraw greater than 10 Acre Feet per year?: **N/A**

Variance(s) Granted To Driller: **None**

Certification(s) Made By Driller:

- By checking this box, I certify that I have all necessary Registrar of Contractor (ROC) licenses in all necessary license categories for this drilling or abandonment project and that those licenses are current.
- By checking this box, I certify that I have been authorized by the above-named well owner to submit this Notice of Intent on the well owner's behalf.
- By checking this box, I certify that the information above is complete and correct, and that the well shall be drilled or abandoned in compliance with all pertinent statutes and rules, including any special standards that may be required to protect the aquifer or other water sources.
- By checking this box, I certify that this NOI application is not an application to replace, deepen, or modify an existing well.
- By checking this box, I understand that the Authorization to drill this well DOES NOT constitute or guarantee an approval to use the well for the purpose of withdrawing groundwater for transportation to an Active Management Area (AMA) pursuant to A.R.S. § 45-552, 45-553, 45-554 or 45-555(A) without official prior approval from the Department.
- If the landowner and the well owner are not the same, by checking this box, I certify that I have obtained written approval from the landowner in order to conduct this drilling or abandonment project. A copy of the written approval shall be submitted to ADWR with the Well Driller Report and Well Log or Well Abandonment Completion Report within 30 days of completion of drilling or abandonment.

NOTICE

A.R.S. § 41-1030(B), (D), (E) and (F) provide as follows:

- B. An agency shall not base a licensing decision in whole or in part on a licensing requirement or condition that is not specifically authorized by statute, rule or state tribal gaming compact. A general grant of authority in statute does not constitute a basis for imposing a licensing requirement or condition unless a rule is made pursuant to that general grant of authority that specifically authorizes the requirement or condition.
- D. This section may be enforced in a private civil action and relief may be awarded against the state. The court may award reasonable attorney fees, damages and all fees associated with the license application to a party that prevails in an action against the state for a violation of this section.
- E. A state employee may not intentionally or knowingly violate this section. A violation of this section is cause for disciplinary action or dismissal pursuant to the agency's adopted personnel policy.
- F. This section does not abrogate the immunity provided by section 12-820.01 or 12-820.02.



Arizona Department of Water Resources
 Groundwater Permitting and Wells
 PO Box 36020 • Phoenix, Arizona 85067-6020
 (602) 771-8527 • 602-771-8500
www.azwater.gov

Well Driller Report and Well Log

**THIS REPORT MUST BE FILED WITHIN 30 DAYS OF COMPLETING THE WELL.
PURSUANT TO ARIZONA REVISED STATUTE 45-600 AND A.A.C. RULE R12-15-808.**

FILE NUMBER A(29-3) 20 CAB
WELL REGISTRATION NUMBER 55 - 924771
PERMIT NUMBER (IF ISSUED)

WELL DRILLER LOGS AND REPORTS CAN ALSO BE DONE ONLINE AT:
http://www.azwater.gov/eForms/Forms/DL/DWR_DL.aspx

SECTION 1. DRILLING AUTHORIZATION

Drilling Firm							
Mail To:	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 2px;">NAME DRILL-TECH, INC.</td> <td style="width: 50%; padding: 2px;">DWR LICENSE NUMBER 239</td> </tr> <tr> <td style="padding: 2px;">ADDRESS 3320 N. HIGHWAY 89</td> <td style="padding: 2px;">TELEPHONE NUMBER 928-636-8006</td> </tr> <tr> <td style="padding: 2px;">CITY / STATE / ZIP CHINO VALLEY, AZ, 86323-3568</td> <td style="padding: 2px;">FAX</td> </tr> </table>	NAME DRILL-TECH, INC.	DWR LICENSE NUMBER 239	ADDRESS 3320 N. HIGHWAY 89	TELEPHONE NUMBER 928-636-8006	CITY / STATE / ZIP CHINO VALLEY, AZ, 86323-3568	FAX
NAME DRILL-TECH, INC.	DWR LICENSE NUMBER 239						
ADDRESS 3320 N. HIGHWAY 89	TELEPHONE NUMBER 928-636-8006						
CITY / STATE / ZIP CHINO VALLEY, AZ, 86323-3568	FAX						

SECTION 2. REGISTRY INFORMATION

Well Owner		Location of Well					
FULL NAME OF COMPANY, ORGANIZATION, OR INDIVIDUAL EFR ARIZONA STRIP LLC		WELL LOCATION ADDRESS (IF ANY)					
MAILING ADDRESS 225 UNION BLVD. STE 600		TOWNSHIP (N/S)	RANGE (E/W)	SECTION	160 ACRE 1/4	40 ACRE 1/4	10 ACRE 1/4
CITY / STATE / ZIP LAKEWOOD, CO, 80228		LATITUDE		LONGITUDE			
CONTACT PERSON NAME AND TITLE		DEGREES		MINUTES		SECONDS	
TELEPHONE NUMBER 303 974-2140		FAX		METHOD OF LATITUDE/LONGITUDE (CHECK ONE)			
WELL NAME (e.g., MW-1, PZ-3, lot 25 Well, Smith Well, etc.)		*LATITUDE/LONGITUDE DATUM, GPS (CHECK ONE)					
COUNTY COCONINO		ASSESSOR'S PARCEL ID NUMBER (MOST RECENT)		METHOD OF ELEVATION (CHECK ONE)			
BOOK 0		MAP 0		*GPS: Hand-Held <input type="checkbox"/> *GPS: Survey-Grade <input type="checkbox"/> TOPO <input type="checkbox"/>			
PARCEL 0		LAND SURFACE ELEVATION AT WELL					
		ELEVATION _____ Feet Above Sea Level					
		*ELEVATION DATUM (CHECK ONE)					
		<input type="checkbox"/> NAVD88 <input type="checkbox"/> NGVD29 <input type="checkbox"/> OTHER _____					

SECTION 3. WELL CONSTRUCTION DETAILS


Drilling Method	Method of Well Development	Method of Sealing at Reduction Points
CHECK ONE <input type="checkbox"/> Air Rotary <input type="checkbox"/> Bored or Augered <input type="checkbox"/> Cable Tool <input type="checkbox"/> Dual Rotary <input type="checkbox"/> Mud Rotary <input type="checkbox"/> Reverse Circulation <input type="checkbox"/> Driven <input type="checkbox"/> Jetted <input type="checkbox"/> Air Percussion / Odex Tubing <input type="checkbox"/> Other (please specify)	CHECK ONE <input type="checkbox"/> Airlift <input type="checkbox"/> Bail <input type="checkbox"/> Surge Block <input type="checkbox"/> Surge Pump <input type="checkbox"/> Other (please specify)	CHECK ONE <input type="checkbox"/> None <input type="checkbox"/> Packed <input type="checkbox"/> Swedged <input type="checkbox"/> Welded <input type="checkbox"/> Other (please specify)
	Condition of Well	Construction Dates
	CHECK ONE <input type="checkbox"/> Capped <input type="checkbox"/> Abandoned <input type="checkbox"/> Pump Installed <input type="checkbox"/> Not Drilled	DATE WELL CONSTRUCTION STARTED
		DATE WELL CONSTRUCTION COMPLETED

I state that this notice is filed in compliance with A.R.S. § 45-596 and is complete and correct to the best of my knowledge and belief.

SIGNATURE OF QUALIFYING PARTY	DATE
-------------------------------	------

SECTION 6. WELL SITE PLAN			
NAME OF WELL OWNER		COUNTY ASSESSOR'S PARCEL ID NUMBER (MOST RECENT)	
EFR ARIZONA STRIP LLC		BOOK 0	MAP 0
			PARCEL 0

- ❖ Required for all wells, please draw the following: (1) the boundaries of property on which the well was located; (2) the well location; (3) the locations of all septic tank systems and sewer systems on the property or within 100 feet of the well location, even if on neighboring properties; and (4) any permanent structures on the property that may aid in locating the well.
- ❖ Please indicate the distance between the well location and any septic tank system or sewer system.

						
						1" = _____ ft



Well Driller Report and Well Log

Introduction

These instructions are a guide to filling out Form DWR 55-55 (Rev. 06/15/2010), entitled "Well Driller Report and Well Log." Please review the instructions prior to completing the form in black or blue ink. Forms may be obtained at any Arizona Department of Water Resources (ADWR) office and at ADWR's web site, <http://www.azwater.gov>. For information about the form or these instructions, contact Groundwater Permitting & Wells at (602) 771-8500. There is no fee for filing this form.

When Form DWR 55-55 Must be Filed

Within 30 days after completion of the drilling, deepening or modification of a well, the licensed well driller who performed the work must file a Well Driller Report and Log with ADWR. Because the information in the report describes the well as it was actually constructed, and comes from the person who constructed the well, the information is very valuable to ADWR. For that reason, it is very important to fill out the report with the most accurate information possible.

Instructions for Filling out the Form

Well Registration and Permit Numbers

Fill in the registration number of the well and any ADWR permit number associated with the well in the upper right-hand corner of the first page. Also fill in the well registration number in the upper right-hand corner of all other pages so that the well information on those pages can be identified when the pages are separated during computer imaging.

Section 1 - Drilling Authorization

Fill in the name, address, DWR license number and telephone and fax numbers of the drilling firm filing the report.

Section 2 - Registry Information

Well Owner

Fill in the name, mailing address, telephone number and fax number (if available) of the well owner. If the well owner is a corporation, governmental unit or other entity, provide the name of a contact person.

Location of Well

Fill in the following information relating to the location of the well:

- The street address of the property where the well is located. For monitor wells or other wells associated with contaminant investigations or remedial projects, this will usually be the same as the facility address.
- The legal description of the well site. The legal description is the township, range, section, and in decreasing order, the quarters of that section so that the well location falls in a 10-acre block within that section. Normally, the legal description will be the same as that given in the original Notice of Intent to drill the well, but occasionally a more accurate description is discovered after the Notice is filed.
- The latitude and longitude (in degrees-minutes-seconds format) and land surface elevation at the well, and the method used to determine these data. **Please note this information is mandatory.** Use of a Global Positioning System (GPS) receiver is the only method accepted by the Department. The GPS unit should be adjusted to use the NAD-83 datum. Please indicate if the geographic coordinate datum used was NAD-83, and if not, which datum was used.
- The name of the county and the tax assessor's parcel identification number for the land where the well is located. This information can normally be taken from the original Notice of Intent to drill the well, and may also be obtained from the county tax assessor's office. Federal or State land will not have a parcel identification number.

Section 3 - Well Construction Details

Section 3 requires details on the construction of the well. Indicate the drill method by checking the appropriate box. If the drill method is not listed, check the "Other" box and describe the method. To the right of that, indicate the method of well development by checking the

appropriate box. Next, indicate the method of sealing at reduction points. If the method used is not listed, check "Other" and provide a brief explanation. Under *Well Driller Completion Report and Well Log* Form 55-55 Instructions (Rev. 06/2010) Page 2

Condition of Well, indicate whether the well was capped, or a pump was installed, when you left it. Then fill in the date when well construction started, and the date when well construction was completed.

Signature Block

The form must be signed and dated by the qualifying party of the drilling firm.

Section 4 - Well Construction Design (As Built)

Section 4 contains tables to fill in information on the existing borehole, the installed casing and the installed annular material. The tables are broken down by depth interval.

In the first set of boxes, fill in the depth of the boring and the depth of the completed well, as measured in feet below the land surface.

Under **Water Level Information** please indicate the static water level in the well, as measured in feet below the land surface, and the date and time the water level was measured. If the well is a flowing well, include the method by which the artesian flow is regulated.

In the **Borehole** table, fill in the diameter of the borehole in inches, and indicate the depth interval for each change in diameter. In the **Installed Casing** table, fill in the outer diameter of the casing in inches, check the appropriate boxes indicating the type of casing material and the type of perforations, and fill in the slot size of any perforations. Fill in the depth interval for each change in information. Please note that not every interval will be perforated. Check the "Blank or None" box for non-perforated depth intervals. If the type of casing material or perforations is not listed, describe the type in the appropriate box.

In the **Installed Annular Material** table, check the appropriate boxes indicating the type of annular material or filter pack installed at each depth interval. Fill in the size of the filter pack used. Provide the depth interval for each change in information. If the type of annular material is not listed, describe the material in the appropriate box.

Section 5 - Geologic Log of Well

Section 5 requires the geologic or lithologic log of the well. Describe the various units encountered during drilling. Provide as much description as possible. The

log description must be broken down by depth intervals below ground surface, and every interval where groundwater, including perched groundwater, was encountered must be checked. If a consulting firm was involved with the well construction, the consultant's lithologic log may be submitted in lieu of completing Section 5.

Section 6 - Well Site Plan

In the boxes at the top of Section 6, fill in the name of the well owner and the county tax assessor's parcel identification number for the land where the well is located. Below that, provide a scale drawing of where the well was actually constructed on the parcel, illustrating the property boundaries, the well location and any structures on the property. The drawing must also show the location of any septic tank or sewer systems on the property or within 100 feet of the well, even if on neighboring property, and the distance between the well and the septic tank or sewer system. The drawing should closely match the drawing on the original Notice of Intent to drill the well, but the purpose of this drawing is to show where the well was actually drilled, especially if the location is different than originally planned. This information will be shared with the county.

Where to File Form

Completed forms may be mailed to ADWR at the following address:

Arizona Department of Water Resources
Groundwater Permitting and Wells
PO Box 36020
Phoenix, AZ 85067-6020

Completed forms may also be submitted to ADWR's main office at 1110 W. Washington St. Suite 310., Phoenix, AZ 85007.

The completed form must be legible and of good quality when received by ADWR so that it can be scanned into ADWR's permanent records.

ARIZONA DEPARTMENT of WATER RESOURCES
1110 W. Washington St. Suite 310
Phoenix, AZ 85007
602-771-8500
azwater.gov

August 21, 2020

EFR ARIZONA STRIP LLC
225 UNION BLVD. STE 600
LAKEWOOD, CO 80228



DOUGLAS A. DUCEY
Governor

THOMAS BUSCHATZKE
Director

Registration No. 55- 924771
File Number: A(29-3) 20 CAB

Dear Well Applicant:

Enclosed is a copy of the Notice of Intention to Drill (NOI) a well which you or your driller recently filed with the Department of Water Resources. This letter is to inform you that the Department has approved the NOI and has mailed, or made available for download, a drilling authorization card to your designated well drilling contractor. The driller may not begin drilling until he/she has received the authorization, and must keep it in their possession at the well site during drilling. Although the issuance of this drill card authorizes you to drill the proposed well under state law, the drilling of the well may be subject to restrictions or regulations imposed by other entities.

Well drilling activities must be completed within one year after the date the NOI was filed with the Department. If drilling is not completed within one year, a new NOI must be filed and authorization from this Department received before proceeding with drilling. If the well cannot be successfully completed as initially intended (dry hole, cave in, lost tools, etc.), the well must be properly abandoned and a Well Abandonment Completion Report must be filed by your driller [as required by A.A.C. R12-15-816(F)].

If you change drillers, you must notify the Department of the new driller's identity on a Request to Change Well Drilling Contract (form 55-71B). Please ensure that the new driller is licensed by the Department to drill the type of well you require. A new driller may not begin drilling until he/she receives a new drilling authorization card from the Department. Forms may be obtained by contacting the Department, or online at: <https://new.azwater.gov/permitting-wells/well-forms-and-applications>.

If you find it necessary to change the location of the proposed well(s), you may not proceed with drilling until you file an amended NOI with the Department. An amended drilling authorization card will then be issued to the well drilling contractor, which must be in their possession before drilling begins.

Arizona statute [A.R.S. § 45-600] requires registered well owners to file a Pump Installation Completion Report (form 55-56) with the Department within 30 days after the installation of pumping equipment, if authorized. A blank report is enclosed for your convenience. State statute also requires the driller to file a complete and accurate Well Drillers Report and Well Log (form 55-57) within 30 days after completion of drilling. A blank report form was provided to your driller with the drilling authorization card. You should insist and ensure that all of the required reports are accurately completed and timely filed with the Department.

Please be advised that Arizona statute [A.R.S. § 45-593(C)] requires a registered well owner to notify the Department of a change in ownership of the well and/or information pertaining to the physical characteristics of the well in order to keep this well registration file current and accurate. Any change in well information must be filed on a Request to Change Well Information form (form 55-71A). Forms may be obtained by contacting the Department, or online at: <https://new.azwater.gov/permitting-wells/well-forms-and-applications>.

Sincerely,

Groundwater Permitting and Wells Section

ARIZONA DEPARTMENT of WATER RESOURCES
1110 W. Washington St. Suite 310
Engineering and Permits Division
Phoenix, AZ 85007
602-771-8500

NOTICE TO WELL DRILLERS

This is a reminder that a valid drill card must be present for the drilling of each and every well constructed on a site. During the construction of a well, if an unexpected problem occurs; the hole collapses, the hole is dry, or a drill bit is lost and can't be recovered, or any number of other situations where the driller feels they need to move over and start another well. Please be aware drillers do not have the authority to start another well without first obtaining drilling authority for the new well. Please note the following statutes and regulations pertaining to well drilling and construction:

ARIZONA REVISED STATUTE (A.R.S.)

A.R.S. § 45-592.A.

A person may construct, replace or deepen a well in this state only pursuant to this article and section 45-834.01. The drilling of a well may not begin until all requirements of this article and section 45-834.01, as applicable, are met.

A.R.S. § 594.A.

The director shall adopt rules establishing construction standards for new wells and replacement wells, the deepening and abandonment of existing wells and the capping of open wells.

A.R.S. § 600.A

A well driller shall maintain a complete and accurate log of each well drilled.

ARIZONA ADMINISTRATIVE CODE (A.A.C.)

A.A.C. R12-15-803.A.

A person shall not drill or abandon a well, or cause a well to be drilled or abandoned, in a manner which is not in compliance with A.R.S. Title 45, Chapter 2, Article 10, and the rules adopted thereunder.

A.A.C. R12-15-810.A.

A well drilling contractor or single well licensee may commence drilling a well only if the well drilling contractor or licensee has possession of a drilling card at the well site issued by the Director in the name of the well drilling contractor or licensee, authorizing the drilling of the specific well in the specific location.

A.A.C. R12-15-816.F.

In the course of drilling a new well, the well may be abandoned without first filing a notice of intent to abandon and without an abandonment card.

*** THIS REQUIREMENT DOES NOT PERTAIN TO THE DRILLING OF MINERAL EXPLORATION, GEOTECHNICAL OR HEAT PUMP BOREHOLES**



Arizona Department of Water Resources
 Groundwater Permitting and Wells Section
 PO Box 36020 , Phoenix, AZ 85067-6020
 (602) 771-8527 • 1-800-352-8488
www.azwater.gov

Landowner Authorization to Drill or Abandon a Well on Landowner's Parcel

Landowner Authorization to Drill or Abandon a Well by a Third Party on Landowner's Parcel Pursuant to A.R.S. § 45-596 and A.A.C. R12-15-809

FILE NUMBER A(29-3) 20 CAB
WELL REGISTRATION NUMBER 55 - 924771

The Arizona Department of Water Resources requires a well driller or well owner to obtain written permission from the owner of the land on which they intend to drill or abandon a well. Landowners, or their designated representative, must authorize the well to be drilled or abandoned with their signature on the Notice of Intent or on this form, to be attached to the Notice of Intent form.

PARCEL ADDRESS _____

COUNTY PARCEL ID 0 - 0 - 0 COUNTY COCONINO
 BOOK MAP PARCEL

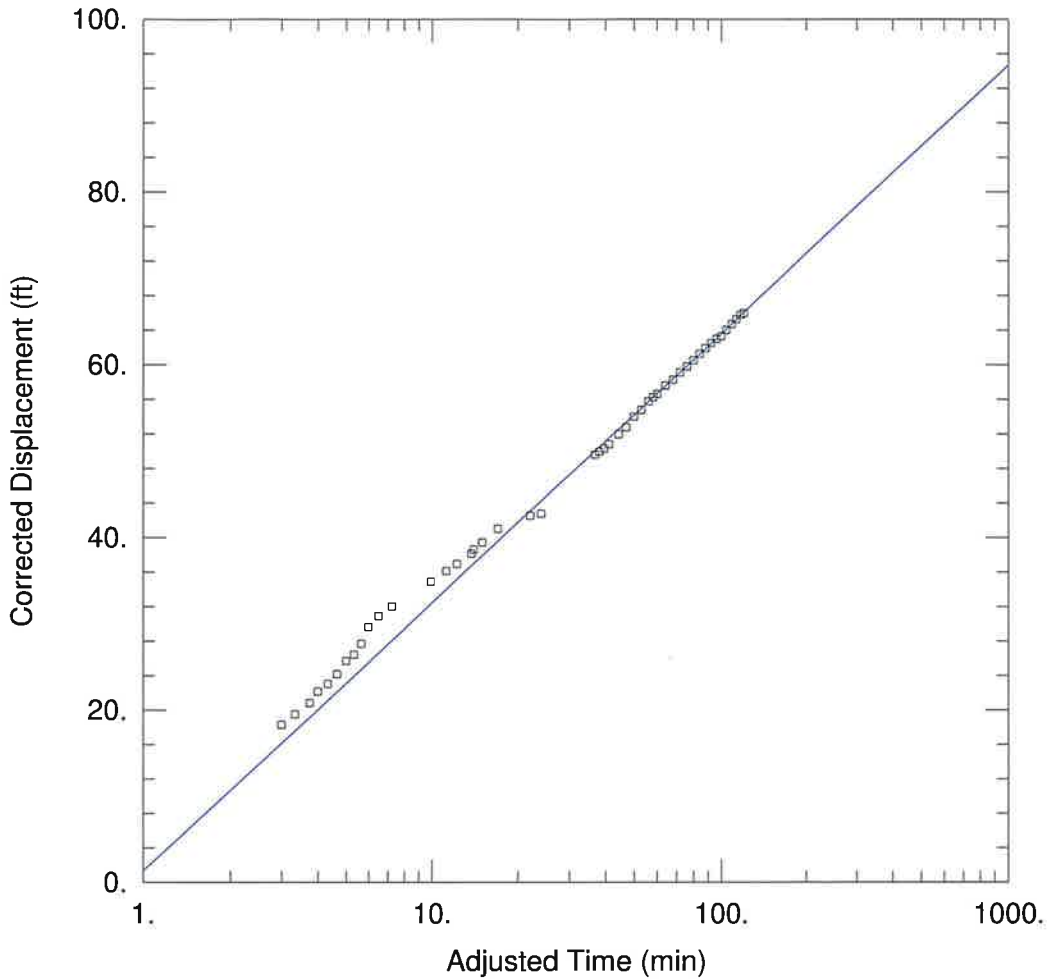
In accordance with A.R.S. § 45-496 and A.A.C. R12-15-809, I certify that:

- I am the owner of the parcel on which I am giving permission for a well to be drilled or abandoned.
- I am an authorized representative of the owner of the parcel on which I am giving permission for a well to be drilled or abandoned.

SIGNATURE

TYPE OR PRINT NAME OF LANDOWNER / REPRESENTATIVE	TITLE
SIGNATURE	DATE SIGNED

APPENDIX B
PUMP TEST PLOTS



WELL TEST ANALYSIS

Data Set: H:\...\CooperJacobSW.aqt
 Date: 03/16/21

Time: 12:55:54

PROJECT INFORMATION

Company: HGC
 Client: EFRI
 Test Well: South Well

AQUIFER DATA

Saturated Thickness: 168. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA

Pumping Wells

Observation Wells

Well Name	X (ft)	Y (ft)
SouthWell	0	0

Well Name	X (ft)	Y (ft)
□ SouthWell	0	0

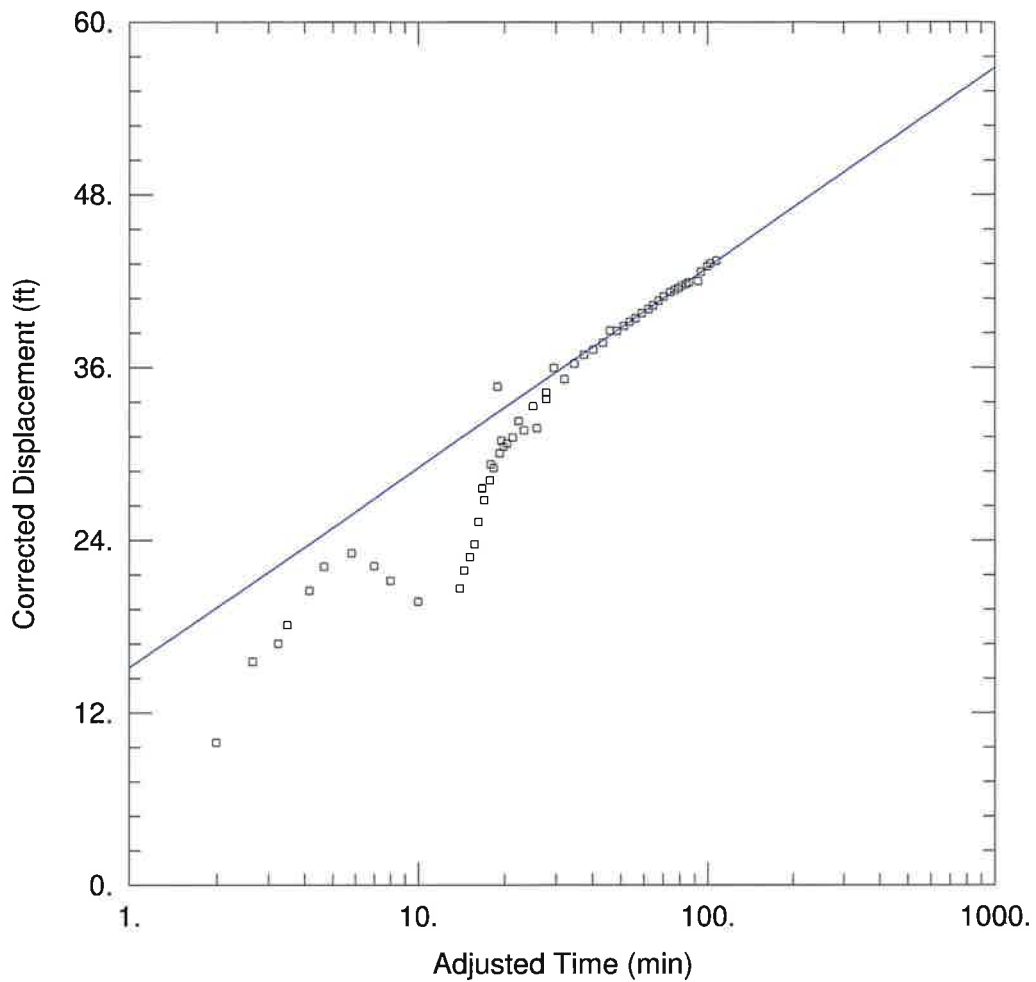
SOLUTION

Aquifer Model: Unconfined

Solution Method: Cooper-Jacob

T = 4.537 ft²/day

S = 0.1025



WELL TEST ANALYSIS

Data Set: H:\...\CooperJacobEW.aqt
 Date: 03/16/21

Time: 12:54:11

PROJECT INFORMATION

Company: HGC
 Client: EFRI
 Test Well: East Well

AQUIFER DATA

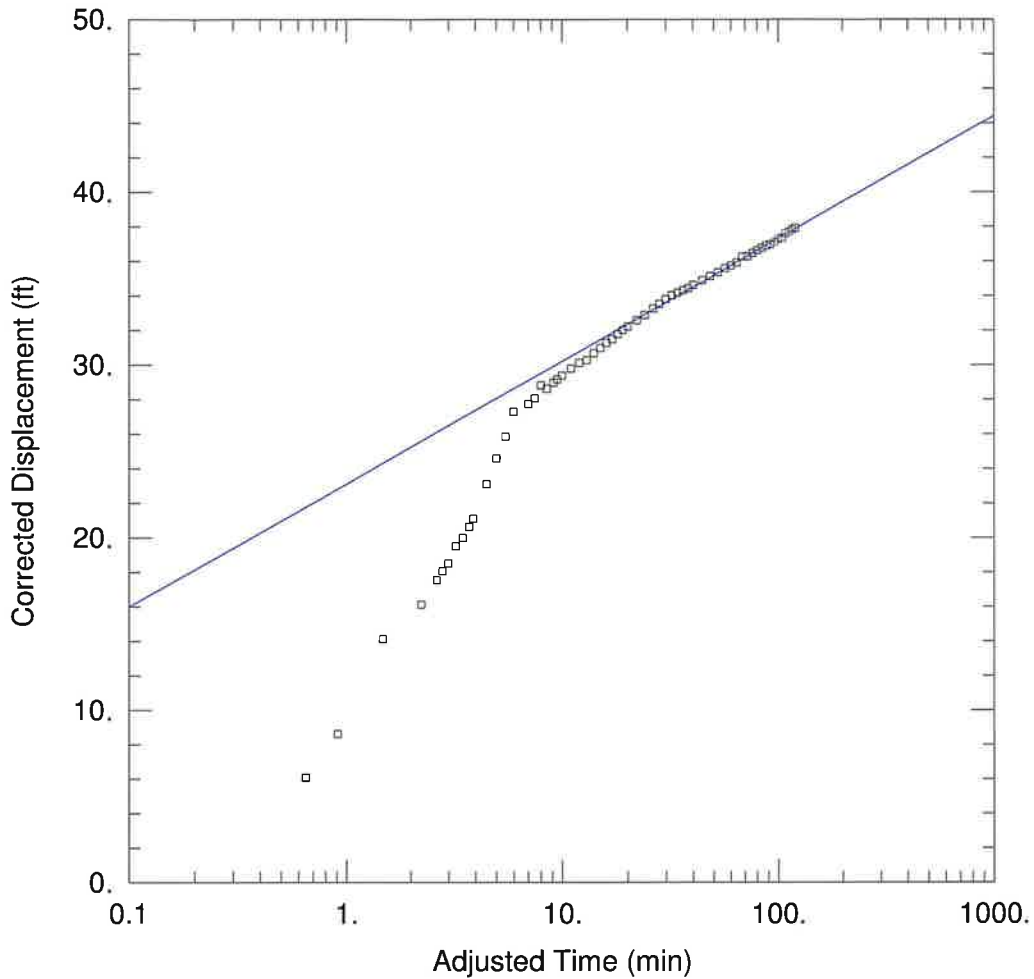
Saturated Thickness: 133. ft Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA

Pumping Wells			Observation Wells		
Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
East Well	0	0	□ East Well	0	0

SOLUTION

Aquifer Model: Unconfined Solution Method: Cooper-Jacob
 T = 10.16 ft²/day S = 0.02052



WELL TEST ANALYSIS

Data Set: H:\...\CooperJacobNW.aqt
 Date: 03/16/21

Time: 12:55:07

PROJECT INFORMATION

Company: HGC
 Client: EFR
 Test Well: North Well

AQUIFER DATA

Saturated Thickness: 138. ft

Anisotropy Ratio (Kz/Kr): 0.03876

WELL DATA

Pumping Wells			Observation Wells		
Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
NorthWell	0	0	NorthWell	0	0

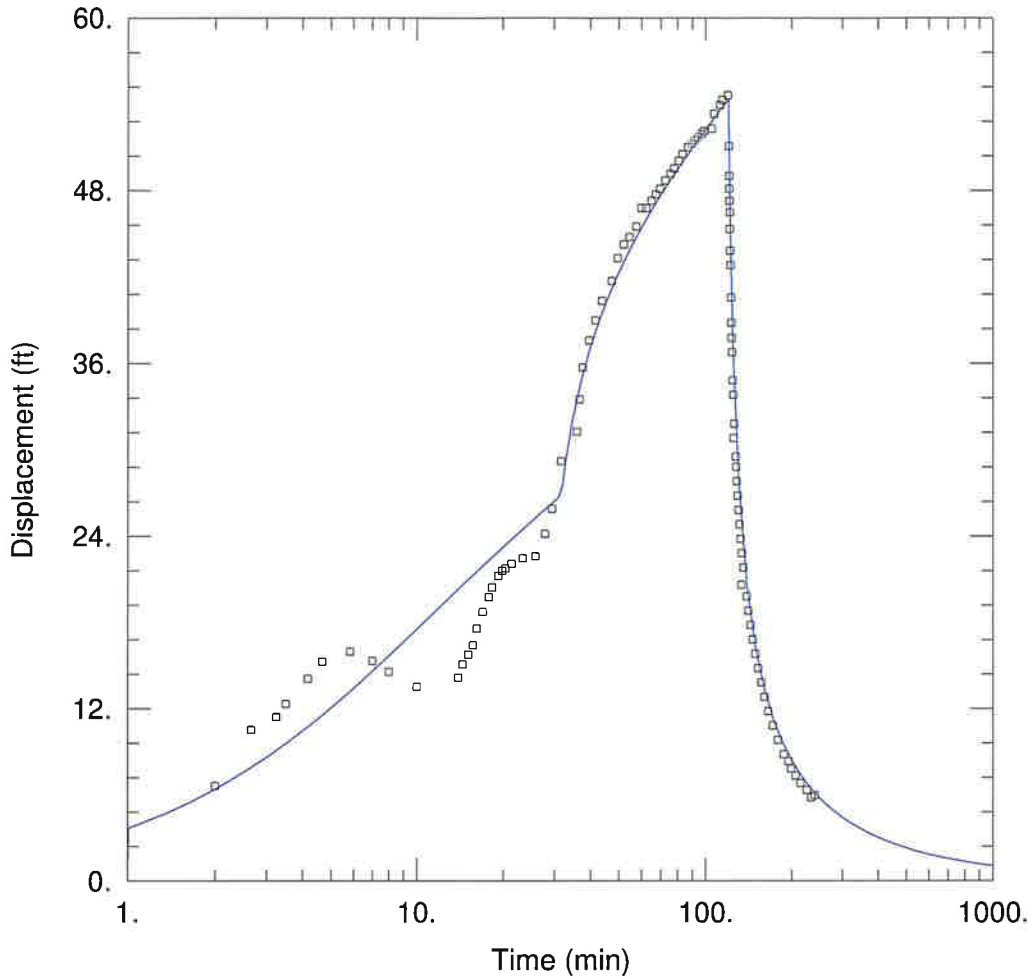
SOLUTION

Aquifer Model: Unconfined

Solution Method: Cooper-Jacob

T = 19.87 ft²/day

S = 0.0002767



WELL TEST ANALYSIS

Data Set: H:\...\MoenchEW.aqt
 Date: 03/16/21

Time: 12:53:11

PROJECT INFORMATION

Company: HGC
 Client: EFRI
 Test Well: East Well

AQUIFER DATA

Saturated Thickness: 133. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA

Pumping Wells

Observation Wells

Well Name	X (ft)	Y (ft)
East Well	0	0

Well Name	X (ft)	Y (ft)
□ East Well	0	0

SOLUTION

Aquifer Model: Unconfined

Solution Method: Moench

T = 6.832 ft²/day

S = 0.0373

Sy = 0.1091

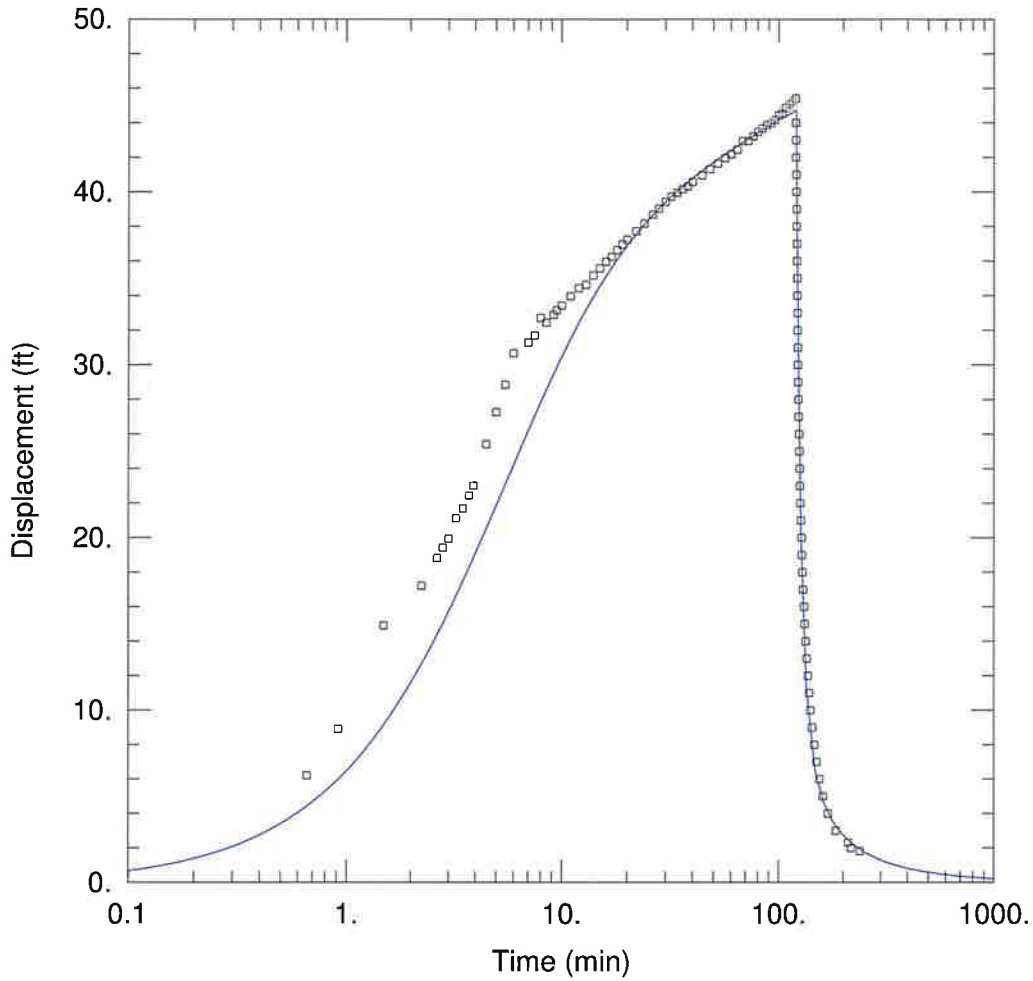
β = 3.533E-7

Sw = 0.

r(w) = 0.25 ft

r(c) = 0.25 ft

alpha = 1.0E+30 min⁻¹



WELL TEST ANALYSIS

Data Set: H:\...\MoenchNW.aqt
 Date: 03/16/21

Time: 12:54:39

PROJECT INFORMATION

Company: HGC
 Client: EFRI
 Test Well: North Well

AQUIFER DATA

Saturated Thickness: 138. ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA

Pumping Wells

Observation Wells

Well Name	X (ft)	Y (ft)
NorthWell	0	0

Well Name	X (ft)	Y (ft)
□ NorthWell	0	0

SOLUTION

Aquifer Model: Unconfined

Solution Method: Moench

T = 17.15 ft²/day

S = 0.0001

Sy = 0.001

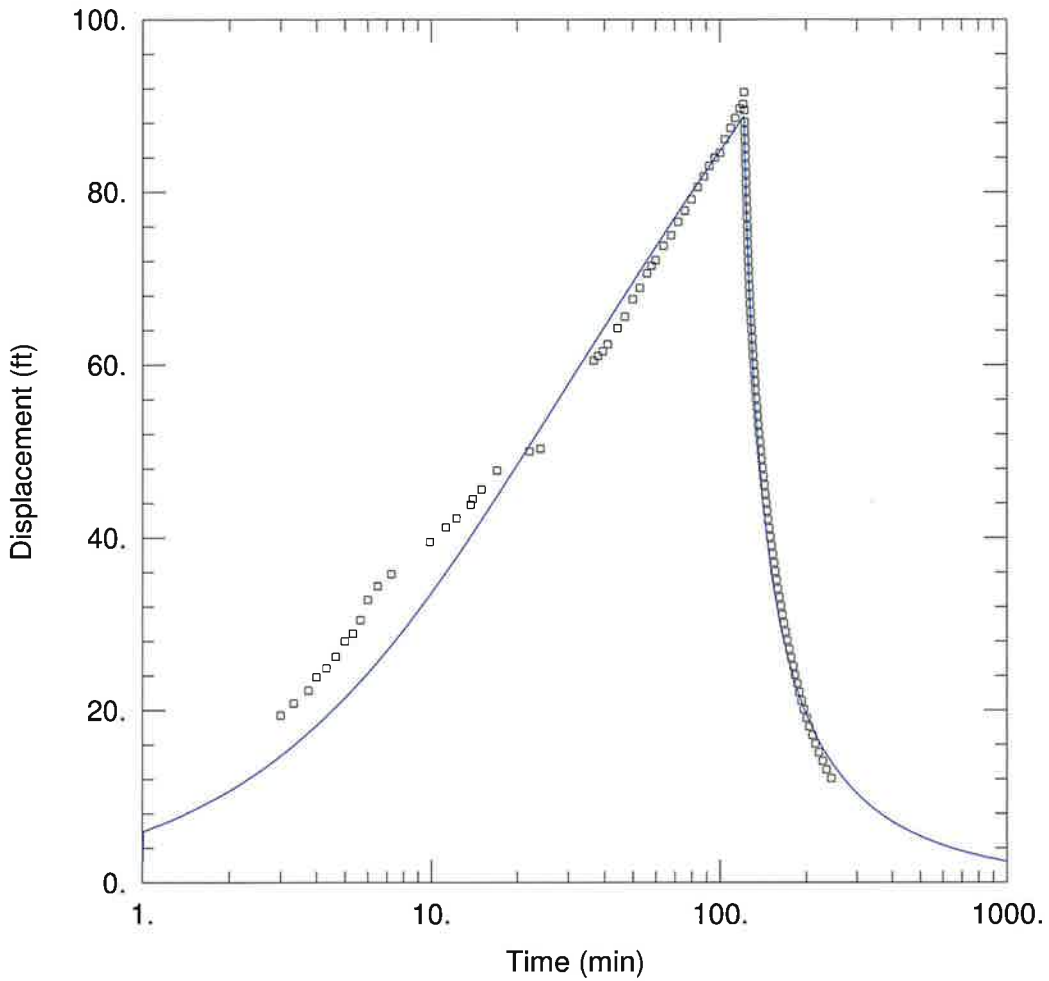
β = 3.282E-7

Sw = 0.

r(w) = 0.25 ft

r(c) = 0.25 ft

alpha = 1.0E+30 min⁻¹



WELL TEST ANALYSIS

Data Set: H:\...\MoenchSW.aqt
 Date: 03/16/21

Time: 12:55:30

PROJECT INFORMATION

Company: HGC
 Client: EFRI
 Test Well: South Well

AQUIFER DATA

Saturated Thickness: 168. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA

Pumping Wells

Observation Wells

Well Name	X (ft)	Y (ft)
SouthWell	0	0

Well Name	X (ft)	Y (ft)
□ SouthWell	0	0

SOLUTION

Aquifer Model: Unconfined

Solution Method: Moench

T = 3.294 ft²/day

S = 0.07121

Sy = 0.1091

β = 2.214E-7

Sw = 0.

r(w) = 0.25 ft

r(c) = 0.25 ft

alpha = 1.0E+30 min⁻¹

APPENDIX C
DRAWDOWN DATA

1	East Well	
2	ET (min)	DD (ft)
3	0	0
4	2	6.62
5	2.66	10.52
6	3.25	11.42
7	3.5	12.32
8	4.167	14.07
9	4.67	15.28
10	5.83	15.97
11	7	15.32
12	8	14.57
13	10	13.52
14	14	14.17
15	14.5	15.08
16	15.167	15.76
17	15.75	16.42
18	16.25	17.57
19	17	18.72
20	17.83	19.77
21	18.33	20.44
22	19.25	21.23
23	19.83	21.58
24	20.33	21.74
25	21.33	22.07
26	23.33	22.46
27	25.83	22.58
28	27.83	24.16
29	29.5	25.9
30	31.66	29.22
31	35.83	31.26
32	36.5	33.49
33	37.5	35.73
34	39.5	37.59
35	41.5	38.99
36	43.67	40.34
37	47.33	41.73
38	49.5	43.29
39	52	44.25
40	54.5	44.77
41	57.5	45.5
42	59.83	46.79
43	62.17	46.76
44	64.83	47.27
45	67.17	47.72
46	69.5	48.1
47	72.33	48.67
48	75.5	49.14
49	77.67	49.52
50	80.5	50.06
51	83.17	50.52
52	86.75	51
53	89.5	51.24
54	91.83	51.47
55	93.83	51.71
56	96.67	51.92
57	98.67	52.12
58	104.83	52.27
59	107	53.32
60	112	53.94
61	114.5	54.3
62	119.5	54.62
63	120.333	51.07
64	120.66	49.02
65	120.83	48.12
66	121	47.27
67	121.16	46.47

68	121.33	45.32
69	121.66	43.82
70	121.92	42.82
71	122.42	40.57
72	122.83	38.82
73	123.08	37.77
74	123.5	36.77
75	124.17	34.82
76	124.66	33.82
77	125.25	32.82
78	125.66	31.82
79	125.25	30.82
80	127.25	29.52
81	127.66	28.82
82	128.42	27.82
83	129.33	26.82
84	130.17	25.82
85	131.33	24.82
86	132.5	23.82
87	133.83	22.82
88	135.5	21.82
89	133.33	20.62
90	139.17	19.82
91	141	18.82
92	143.5	17.82
93	146.33	16.82
94	149.17	15.82
95	152.66	14.82
96	156.5	13.82
97	160.83	12.82
98	165.83	11.82
99	171.75	10.82
100	179	9.82
101	187.5	8.82
102	194.5	8.32
103	198.66	7.82
104	206	7.32
105	214.66	6.82
106	225.5	6.32
107	233.5	5.82
108	239.5	5.96
109		

1	North Well	
2	ET (min)	DD (ft)
3	0	0
4	0.66	6.2
5	0.92	8.9
6	1.5	14.9
7	2.25	17.2
8	2.66	18.78
9	2.83	19.4
10	3	19.92
11	3.25	21.08
12	3.5	21.66
13	3.75	22.42
14	3.92	22.98
15	4.5	25.4
16	5	27.25
17	5.5	28.84
18	6	30.66
19	7	31.25
20	7.5	31.66
21	8	32.7
22	8.5	32.42
23	9.16	32.88
24	9.5	33.13
25	10	33.42
26	11	33.96
27	12	34.42
28	13	34.62
29	14	35.15
30	15	35.56
31	16	35.95
32	17	36.23
33	18	36.62
34	19	36.96
35	20	37.23
36	22	37.72
37	24	38.16
38	26.25	38.68
39	28	39.03
40	30	39.42
41	32	39.72
42	34	39.94
43	36	40.14
44	38	40.31
45	40	40.56
46	44.25	40.96
47	48	41.31
48	52.25	41.63
49	56.5	41.96
50	60	42.18
51	64	42.44
52	68	42.93
53	72	42.94
54	76	43.21
55	80	43.46
56	84	43.66
57	88	43.84
58	92	43.98
59	96	44.16
60	100	44.41
61	104	44.52
62	108	44.87
63	112	45.06
64	116	45.23
65	120	45.39
66	120.33	44
67	120.42	43

68	120.58	42
69	120.66	41
70	120.95	40
71	121.16	39
72	121.33	38
73	121.52	37
74	121.73	36
75	121.93	35
76	122.15	34
77	122.35	33
78	122.58	32
79	122.82	31
80	123.05	30
81	123.33	29
82	123.63	28
83	124	27
84	124.42	26
85	124.86	25
86	125.42	24
87	125.93	23
88	126.52	22
89	127.18	21
90	127.86	20
91	128.66	19
92	129.5	18
93	130.47	17
94	131.5	16
95	132.66	15
96	133.92	14
97	135.33	13
98	137	12
99	138.83	11
100	141	10
101	143.5	9
102	146.53	8
103	150.16	7
104	155.25	6
105	161	5
106	170.16	4
107	185.25	3
108	211.5	2.3
109	218	2
110	240	1.81
111		

1	South Well	
2	ET (min)	DD (ft)
3	0	0
4	3	19.39
5	3.33	20.78
6	3.75	22.26
7	4	23.83
8	4.33	24.86
9	4.66	26.19
10	5	28.01
11	5.33	28.9
12	5.66	30.46
13	6	32.8
14	6.5	34.4
15	7.25	35.78
16	9.92	39.54
17	11.25	41.2
18	12.25	42.25
19	13.75	43.83
20	14	44.5
21	15	45.6
22	17	47.81
23	22	49.99
24	24	50.31
25	36.75	60.49
26	38	61.01
27	39.42	61.59
28	41	62.39
29	44.25	64.24
30	47	65.57
31	50	67.56
32	53	68.89
33	56	70.58
34	58	71.45
35	60	72.08
36	64	73.75
37	68	74.99
38	72	76.55
39	76	77.83
40	80	79.13
41	84	80.56
42	88	81.81
43	92	83.03
44	96	83.98
45	100	84.53
46	104	86.09
47	109	87.44
48	113	88.59
49	117	89.69
50	120	90.15
51	121	91.59
52	121.33	89.49
53	121.58	88.09
54	121.75	87.09
55	122	86.09
56	122.16	85.09
57	122.33	84.09
58	122.58	83.09
59	122.83	82.09
60	123.01	81.09
61	123.28	80.09
62	123.49	79.09
63	123.66	78.09
64	123.88	77.09
65	124.1	76.09
66	124.33	75.09
67	124.58	74.09

68	124.83	73.09
69	125.16	72.09
70	125.42	71.09
71	125.7	70.09
72	126.01	69.09
73	126.42	68.09
74	126.83	67.09
75	127.33	66.09
76	127.83	65.09
77	128.33	64.09
78	128.92	63.09
79	129.42	62.09
80	130	61.09
81	130.58	60.09
82	131.16	59.09
83	131.83	58.09
84	132.5	57.09
85	133.16	56.09
86	133.92	55.09
87	134.66	54.09
88	135.42	53.09
89	136.25	52.09
90	137.16	51.09
91	138.08	50.09
92	139	49.09
93	140	48.09
94	141	47.09
95	142.08	46.09
96	143.16	45.09
97	144.33	44.09
98	145.5	43.09
99	146.75	42.09
100	148	41.09
101	149.33	40.09
102	150.75	39.09
103	152.25	38.09
104	153.75	37.09
105	155.33	36.09
106	157.03	35.09
107	158.83	34.09
108	160.75	33.09
109	162.66	32.09
110	164.66	31.09
111	166.75	30.09
112	169	29.09
113	171.42	28.09
114	173.83	27.09
115	176.5	26.09
116	179.75	25.09
117	182.25	24.09
118	185.33	23.09
119	188.75	22.09
120	192.16	21.09
121	195.92	20.09
122	200.05	19.09
123	204.66	18.09
124	209.5	17.09
125	214.75	16.09
126	220.8	15.09
127	227.35	14.09
128	234.92	13.09
129	243.75	12.09
130		

APPENDIX D

**FIELD SHEETS FOR
WATER LEVEL MONITORING**

ENERGY FUELS

Duplicate well

GROUNDWATER SAMPLING FORM

Project Name: Pinyon Plain Mine

Date: 3/16/2021

Sampler(s): M. O'Boyle / M. Germanesh

Well No.: CYN-MON-01

WELL INFORMATION

Total Well Depth (ft.): 1148
Casing Diameter (in.): 6

Screened Interval (ft.): N/A to N/A
Static Depth to Water (ft.): 990.85

PURGE INFORMATION AND FIELD MEASUREMENTS

Time Started: 1130 Time Completed: 1237 Total Purge Time: 67 min

Purge Method: Dedicated pump Pump Placement: 1120'

Pump Type: Franklin Total Purge Volume: 191 x 3 = 573 gal

Pump Rate: ~108 (gpm) Calculated Time to Purge 3 Volumes: 72 (mins.)

Depth to Water after Purging (if not dry): _____ (ft.)

→ Depth to Water After Recovery (if well purged dry): 1023.90 (ft.) 1310

Time	Volume Purged (gals)	Temp (°C/°F)	Conductivity (µs/cm)	pH (SU)	ORP (mV)	D.O. (mg/L) (%)	Turbidity (NTU)	Water Level (ft. below TOC)
1130	0						cloudy red	
1135	40	13.52	1071	5.64	28.1	21.0	cloudy	1034.29
1145	180	15.14	1094	6.96	63.4	21.0	clear	1058.16
1155	200	15.15	1089	6.93	70.4	1.91	tan	1072.20
1205	280	15.38	1007	6.96	95.6	2.92	tan	1090.45
1215	360	15.41	1023	7.03	101.7	37.1	tan	NM
1225	440	15.16	1012	7.06	109.7	9.96	reddish	NM
1235	520	15.26	1022	7.08	117.4	12.25	almost clear	NM
1237	Well dry turned off pump for 30 min recharge							
1310		14.09	1026	6.89	155.4	15.92	slight pink tint	1023.90
1320		15.14	1054	7.08	116.5	5.12		

casin vol
*
*
*

SAMPLE INFORMATION

Sample Name	Date	Time	Notes
<u>CYN-MON-01 2021 Q1</u>	<u>3/16/21</u>	<u>1320</u>	
<u>CYN-MON-01 2021 Q1 Dup</u>	<u>3/16/21</u>	<u>1320</u>	

Water column height = total depth of the well - measured depth to water

Coconino Bore Volume Calculation = 1.47 gallons per foot X height of water column (ft.)

Redwall Volume Calculation = 1.5 gallons per foot X 561 ft. (based on a TD of 3086-2525 historic water level)

Duplicate well

* tape not displaying below 1108 ft

**ENERGY FUELS
GROUNDWATER SAMPLING FORM**

Project Name: Pinyon Plain Mine
 Sampler(s): M. O'Boyle / M. Gormanash

Date: 3/16/2021
 Well No.: CYN-MON-02

1120 WELL INFORMATION

Total Well Depth (ft.): ~~1130~~ 1120 Screened Interval (ft.): N/A to N/A
 Casing Diameter (in.): 6" Static Depth to Water (ft.): 987.15
 11 depth 920

PURGE INFORMATION AND FIELD MEASUREMENTS

Time Started: ~~1420~~ 1435 Time Completed: 1940 Total Purge Time: 65 min
 Purge Method: pump Pump Placement: 1120'
 Pump Type: Franklin Total Purge Volume: 520 gal
 Pump Rate: 8-10 (gpm) Calculated Time to Purge 3 Volumes: 73 (mins.)
 Depth to Water after Purging (if not dry): _____ (ft.)
 → Depth to Water After Recovery (if well purged dry): 1013.49 (ft.)

Time	Volume Purged (gals)	Temp (°C/°F)	Conductivity (µs/cm)	pH (SU)	ORP (mV)	D.O. (mg/L or %)	Turbidity (NTU)	Water Level (ft. below TOC)
1435	Start pump							
1440	40	13.70	717	7.06	-108.7	1.73	Clear	1018.39
1445	80	15.41	716	7.09	-8.6	.41	Clear	1034.70
1455	160	15.42	712	7.06	65.2	.71	Clear	1057.02
1505	240	15.60	716	7.35	119.7	3.74	Clear	1069.79
1515	320	15.68	709	7.29	134.3	4.94	Clear	1080.45
1525	400	15.76	711	7.25	140.3	5.02	Clear	1089.31
1535	480	15.86	708	7.26	141.2	5.21	12	1096.45
1540	well dry will allow 30 min with recovery							
1610	recovery complete							
1615		14.63	708	7.16	210.2	4.78	Clear	

SAMPLE INFORMATION

Sample Name	Date	Time	Notes
<u>CYN-MON-02 2021 Q1</u>	<u>3/16/21</u>	<u>1615</u>	

Water column height = total depth of the well - measured depth to water

Coconino Bore Volume Calculation = 1.47 gallons per foot X height of water column (ft.)

Redwall Volume Calculation = 1.5 gallons per foot X 561 ft. (based on a TD of 3086-2525 historic water level)

**ENERGY FUELS
GROUNDWATER SAMPLING FORM**

Project Name: Pingon Plain Mine
 Sampler(s): M. O'Byrne / M. Germanesh

Date: 3/17/2021
 Well No.: CYN-MON-φ3

WELL INFORMATION

Total Well Depth (ft.): 1145 Screened Interval (ft.): N/A to N/A
 Casing Diameter (in.): 6 Static Depth to Water (ft.): 956.35

PURGE INFORMATION AND FIELD MEASUREMENTS

Time Started: 0930 Time Completed: 1325 Total Purge Time: 3:55
 Purge Method: Dedicated pump Pump Placement: 1120
 Pump Type: Franklin Total Purge Volume: 723 gal
 Pump Rate: 8-10 (gpm) Calculated Time to Purge 3 Volumes: 90 (mins.) @ 8 gpm
 → Depth to Water after Purging (if not dry): 1042.67 (ft.) 120 6 gpm
 Depth to Water After Recovery (if well purged dry): _____ (ft.)

Time	Volume Purged (gals)	Temp (°C/°F)	Conductivity (µs/cm)	pH (SU)	ORP (mV)	D.O. (mg/L or %)	Turbidity (NTU)	Water Level (ft. below TOC)	
0930	0								6.1
0935	30	13.18	1499	7.93	-487.1	0.35	clear	996.00	240
1010	240	15.34	1603	6.45	-37.1	0.47	clear fuzzy	1048 150.22	
1050		15.32	1612	6.66	-35.6	5.36	grayish	1046.95	160
1100		15.58	1615	6.64	-42.5	5.94	grayish	1042.81	
1110							clear		
1125		15.64	1616	6.50	-36.3	6.29	clear	1041.50	70
1325		15.66	1619	6.47	-32.9	10.48	clear	1042.67	470
1326		15.67	1619	6.47	-32.5	10.44	"		253
1327		15.66	1619	6.47	-32.6	10.47			
1330		Collect Sample							

SAMPLE INFORMATION

Sample Name	Date	Time	Notes
<u>CYN-MON-φ3 2021 Q1</u>	<u>3/17/21</u>	<u>1330</u>	
<u>CYN</u>			

Water column height = total depth of the well - measured depth to water

Coconino Bore Volume Calculation = 1.47 gallons per foot X height of water column (ft.)

Redwall Volume Calculation = 1.5 gallons per foot X 561 ft. (based on a TD of 3086-2525 historic water level)

ENERGY FUELS
GROUNDWATER SAMPLING FORM

Project Name: Pinyan Plain Mine
 Sampler(s): M. Gorman

Date: 5/10/2021
 Well No.: CYN-MON-01

WELL INFORMATION

Total Well Depth (ft.): 1148 Screened Interval (ft.): N/A to N/A
 Casing Diameter (in.): 6 Static Depth to Water (ft.): 992.00

PURGE INFORMATION AND FIELD MEASUREMENTS

Time Started: 217 Time Completed: 1615 Total Purge Time: 1:58
 Purge Method: Dedicated Pump Pump Placement: 120
 Pump Type: Franklin Total Purge Volume: 191 x 3 = 573 gallons
 Pump Rate: 8-7 (gpm) Calculated Time to Purge 3 Volumes: 72 (mins.)
 Depth to Water after Purging (if not dry): 1085 (ft.)
 Depth to Water After Recovery (if well purged dry): N/A (ft.)

Time	Volume Purged (gals)	Temp (°C/°F)	Conductivity (µs/cm)	pH (SU)	ORP (mV)	D.O. (mg/L or %)	Turbidity (NTU)	Water Level (ft. below TOC)
217	0	12.03	923	8.18	-400.4	27.12%	clr	992.00
220		12.33	943	7.17	-410.7	3.62%	clr	1010.00
225	69	14.05	1090	6.38	-171.3	4.02%	clr	1036.38
230		14.93	1113	6.94	-159.8	2.62%	clr	1056.80
235	144	15.01	1107	6.98	-152.2	1.79%	Clr	1062.60
240	184	15.06	1103	7.00	-146.1	1.52%	clr	1071.20
245		15.18	995	7.00	-57.6	4.12%	clr	1081.25
255	304	15.34	1030	7.10	-22.0	8.62%	clr	1095.80
255-308 - Rest								
307	304	14.98						
315	336	14.87	1044	7.42	-4.5	14.02%	lt Br/Rd	1086.1
325	386	15.62	1008	7.37	14.8	24.08%	lt Br/Rd	1087.86
350	511	15.06	1034	7.49	-6.6	66.09%	vy lt Br/Rd	1085.90
407	596	15.07	1038	7.43	-10.0	14.49%	vy lt Br/Rd	1085.90
408	601	14.91	1036	7.36	-8.2	14.32%	"	"
409	606	14.80	1038	7.32	-7.9	14.18%	"	"
410	611	14.77	1040	7.28	-9.6	13.92%	"	"
412	621	14.75	1043	7.27	-11.1	13.72%	"	"
413		14.77	1049	7.26	-12.8	13.82%	"	"

8 gpm
"
"
"
"
"
"
"
"
"
"
4 gpm
"
5 gpm
5 gpm

SAMPLE INFORMATION

Sample Name	Date	Time	Notes
CYN-MON-01 2021 02	5/10/21	415	

Water column height = total depth of the well - measured depth to water
 Coconino Bore Volume Calculation = 1.47 gallons per foot X height of water column (ft.)
 Redwall Volume Calculation = 1.5 gallons per foot X 561 ft. (based on a TD of 3086-2525 historic water level)

414 14.80 1044 7.26 -12.4 14.02%
 415 14.82 1042 7.27 -11.2 14.12%
 ↳ sampled

**ENERGY FUELS
GROUNDWATER SAMPLING FORM**

* Duplicate
Sample

Project Name: Pinyon Plaza Mine
Sampler(s): M. Germansen

Date: 5/10/2021
Well No.: CYN-MON-02

WELL INFORMATION

Total Well Depth (ft.): 1120 Screened Interval (ft.): N/A to N/A
Casing Diameter (in.): 6" Static Depth to Water (ft.): 987.2 ft
 " Depth (ft) 920

PURGE INFORMATION AND FIELD MEASUREMENTS

Time Started: 10:26 Time Completed: 11:59 Total Purge Time: 1:33
Purge Method: Dedicated Pump Pump Placement: 1120'
Pump Type: Franklin Total Purge Volume: 520 gal
Pump Rate: 8- (gpm) Calculated Time to Purge 3 Volumes: 73 (mins.)
Depth to Water after Purging (if not dry): >1100 (ft.)
Depth to Water After Recovery (if well purged dry): N/A (ft.)

W20
1.22

Time	Volume Purged (gals)	Temp (C/F)	Conductivity (µs/cm)	pH (SU)	ORP (mV)	D.O. (mg/L or %)	Turbidity (NTU)	Water Level (ft. below TOC)
10:26	0	12.03	687	7.85	-357	5.1%	lt tan	
10:28								1090
10:30								1010.2
10:35		14.76	727	6.57	-87	2.0%		1035.9
10:40	105	15.34	726	7.20	-50.8	2.0%	clr	1043.4
10:50	180	15.34	721	7.20	3.9	7.8%	clr	1059.7
11:05	285	15.58	721	7.49	123.4	44.3%	clr	1075.8
11:20	390	15.70	724	7.50	138.3	49.5%	clr	1089.7
11:35	495	15.80	722	7.50	138.6	53.3%	clr	1109.9
11:40	530	15.80	721	7.49	130.1	54.4	clr	"
11:42	545	15.79	721	7.49	126.8	93.1	clr	"
11:44	560	15.80	721	7.47	134.4	117.2	clr	"
11:46		15.62	720	7.27	162.5	108.0	clr	"
11:55		15.49	720	7.39	149.2	61.4	lt tan	"
11:57		15.48	720	7.43	147.1	59.1	lt tan	"
11:58		15.48	720	7.44	146.7	58.3		
11:59		15.52	720	7.46	146.2	58.2		

89pm
"
"
"
7.5gpm
"
7.0gpm
7.0gpm
7.0gpm

SAMPLE INFORMATION

Sample Name	Date	Time	Notes
CYN-MON-02-2021 02	5/10/21	1159	
CYN-MON-02-2021 02 Dup	5/10/21	1159	

Water column height = total depth of the well - measured depth to water

Coconino Bore Volume Calculation = 1.47 gallons per foot X height of water column (ft.)

Redwall Volume Calculation = 1.5 gallons per foot X 561 ft. (based on a TD of 3086-2525 historic water level)

**ENERGY FUELS
GROUNDWATER SAMPLING FORM**

Project Name: Pinyon Plain Mine
 Sampler(s): M. Gormansen

Date: 5/11/2021
 Well No.: CYN-MON-03

WELL INFORMATION

Total Well Depth (ft.): 1145 Screened Interval (ft.): N/A to N/A
 Casing Diameter (in.): 6 Static Depth to Water (ft.): 956.57

PURGE INFORMATION AND FIELD MEASUREMENTS

Time Started: 800 Time Completed: 1050 Total Purge Time: 2:52
 Purge Method: Dedicated Pump Pump Placement: 1120
 Pump Type: Franklin Total Purge Volume: 723 gallons
 Pump Rate: 8 (gpm) Calculated Time to Purge 3 Volumes: 90/8 gpm (mins.)
 Depth to Water after Purging (if not dry): 1095' (ft.) 120/6 gpm
 Depth to Water After Recovery (if well purged dry): - (ft.) 4 gpm

Time	Volume Purged (gals)	Temp (°F)	Conductivity (µs/cm)	pH (SU)	ORP (mV)	D.O. (mg/L or %)	Turbidity (NTU)	Water Level (ft. below TOC)
800	-	-	-	-	-	-	-	956.57
802	8	12.25	1242	7.01	-317.6	11.52%	lt Br.	970.10
805		13.02	1416	7.00	-300.6	1.3%	clr	987.05
810		14.22	1423	6.73	-180.2	1.9%	clr	1003.30
820		14.66	1414	6.80	-89.9	0.8%	clr	1024.43
830	148	14.69	1436	6.84	-135.7	1.9%	clr	1033.20
850	248	14.90	1370	7.01	-117.8	3.8%	clr	1054.50
920	398	15.02	1370	7.06	-109.1	6.8%	gy	1095
945	523				-100		gy	
1000	568	14.92	1373	7.04	-80.6	20.7%	gy/BK	1095
1030	658	15.13	1377	7.10	-78.5	19.1%	lyt/gy	1095
1040	688	14.88	1373	7.09	-81.6	16.6%	lyt/gy	1095
1042	694	14.96	1373	7.09	-81.9	16.6%	"	"
1044	700	15.07	1373	7.09	-83.0	16.4%	"	"
1046	706	15.17	1375	7.10	-85.0	16.6%	"	"
1048	712	15.21	1375	7.10	-85.1	16.6%	"	"
1050	718	15.21	1376	7.10	-85.4	16.6%	"	"
1052	724	15.20	1376	7.12	-85.4	16.6%	Very light gray	1095

300

4 gpm
5 gpm
"
"
5
"
5 gpm
3 gpm
"
"
"
"
"
"
5 gpm

SAMPLE INFORMATION

Sample Name	Date	Time	Notes
<u>CYN-MON-03-2021-Q2</u>	<u>5/11/21</u>	<u>1052</u>	

Water column height = total depth of the well - measured depth to water
 Coconino Bore Volume Calculation = 1.47 gallons per foot X height of water column (ft.)
 Redwall Volume Calculation = 1.5 gallons per foot X 561 ft. (based on a TD of 3086-2525 historic water level)

**ENERGY FUELS
GROUNDWATER SAMPLING FORM**

Project Name: Pinon Plain
 Sampler(s): Math Germaisen

Date: 9/1/2021
 Well No.: CYN-MON-02

WELL INFORMATION

Total Well Depth (ft.): 1135 Screened Interval (ft.): N/A to N/A
 Casing Diameter (in.): 6" Static Depth to Water (ft.): 988
 " Depth : 920' 147' head x 1.47 = 216 x 3 = 648

PURGE INFORMATION AND FIELD MEASUREMENTS

Time Started: 1330 Time Completed: 1542 Total Purge Time: 2:12 min
 Purge Method: Dedicated Pump Pump Placement: 1120
 Pump Type: Franklin Total Purge Volume: ~~194 x 3 = 582~~ 648
 Pump Rate: 7-8 (gpm) Calculated Time to Purge 3 Volumes: 129 min. (mins.)
 Depth to Water after Purging (if not dry): 1074 (ft.)
 Depth to Water After Recovery (if well purged dry): N/A (ft.)

310
1488
1606
1725
1884
1938
1964
1972

Time	Volume Purged (gals)	Temp (°/°F)	Conductivity (µs/cm)	pH (SU)	ORP (mV)	D.O. (mg/L or %)	Turbidity (NTU)	Water Level (ft. below TOC)
1330	0	14.92	498.6	7.55	170	4.0	clr	988
1356	178	15.12	513.7	7.88	283	47.8	clr	1053
1415	296	15.34	504.7	7.91	301	64.8	clr	1068
1437	415	15.40	503.1	7.93	302	66.0	clr	1078.5
1505	574	15.49	503.0	7.97	300	66.8	clr	1090
1535	628	15.03	497.2	7.96	293	65.8	clr	1074
1540 1540		15.08	498.9	8.03	293	66.3	clr	1074
1542		15.19	500.2	8.02	293	66.6	clr	1074

SAMPLE INFORMATION

Sample Name	Date	Time	Notes
CYN-MON-02-2021-Q3	9/1/21	1542	

Water column height = total depth of the well - measured depth to water
 Coconino Bore Volume Calculation = 1.47 gallons per foot X height of water column (ft.)
 Redwall Volume Calculation = 1.5 gallons per foot X 561 ft. (based on a TD of 3086-2525 historic water level)

**ENERGY FUELS
GROUNDWATER SAMPLING FORM**

* Duplicate Sample

Project Name: Pinyon Plain
 Sampler(s): Matt Germansen

Date: 9/2/2021
 Well No.: CYN-MON-03

WELL INFORMATION

Total Well Depth (ft.): 1145 Screened Interval (ft.): N/A to N/A
 Casing Diameter (in.): 6" Static Depth to Water (ft.): 956.8

PURGE INFORMATION AND FIELD MEASUREMENTS

Time Started: 7:42 Time Completed: 1223 Total Purge Time: 4:41 min
 Purge Method: Franklin Dedicated Pump Pump Placement: 1120
 Pump Type: Franklin Total Purge Volume: 1894.47 = 277 x 3 = 833 gallons
 Pump Rate: 5 (gpm) Calculated Time to Purge 3 Volumes: _____ (mins.)
 Depth to Water after Purging (if not dry): _____ (ft.)
 Depth to Water After Recovery (if well purged dry): N/A (ft.)

1:87
069
115
217
372
548
594
738
826
831
836

Time	Volume Purged (gals)	Temp (°C/°F)	Conductivity (µs/cm)	pH (SU)	ORP (mV)	D.O. (mg/L or %)	Turbidity (NTU)	Water Level (ft. below TOC)
7:42	0	11.75	984.2	7.98	-75	7.6	clr	956.8
7:55	82	14.39	1050.8	7.52	-15	2.7	clr	1018
8:12	128	14.26	1075.0	7.52	+75	5.2	clr	1020
8:47	230	14.64	1007.2	7.82	88	19.4	clr	1030
9:48	385	14.83	1025.8	7.86	54	12.7	clr	1047
10:20	561	15.17	1041.4	7.90	44	13.1	clr	1087
10:40	607	14.92	1037.9	7.87	46	16.0	clr	1091
11:48	751	14.95	1042.6	7.88	34	11.3	clr	1064
12:19	839	15.04	1045.9	7.91	25	9.6	clr	1064
12:21	844	15.04	1046.1	7.91	25	9.6	clr	1064
12:23	849	15.04	1046.4	7.91	25	9.6	clr	1064
Total	2820							

SAMPLE INFORMATION

Sample Name	Date	Time	Notes
CYN-MON-03-2021-Q3	9/2/21	1223	
CYN-MON-03-2021-Q3 Dup	9/2/21	1223	Dup sample

Water column height = total depth of the well - measured depth to water

Coconino Bore Volume Calculation = 1.47 gallons per foot X height of water column (ft.)

Redwall Volume Calculation = 1.5 gallons per foot X 561 ft. (based on a TD of 3086-2525 historic water level)

**ENERGY FUELS
GROUNDWATER SAMPLING FORM**

Project Name: Pinyon Plain Groundwater Monitoring Date: 12/7/2021
 Sampler(s): Matt Germansen Well No.: CYN-MON-01

WELL INFORMATION

Total Well Depth (ft.): 1148 Screened Interval (ft.): N/A to N/A
 Casing Diameter (in.): 6 Static Depth to Water (ft.): 994

PURGE INFORMATION AND FIELD MEASUREMENTS

Time Started: 1256 Time Completed: 1532 Total Purge Time: _____
 Purge Method: Dedicated Pump Pump Placement: 1120
 Pump Type: Franklin Total Purge Volume: 1148-994 = 154 x 3 = 462 x 1.47 = 679 gal
 Pump Rate: 4-8 (gpm) Calculated Time to Purge 3 Volumes: N/A (mins.)
 Depth to Water after Purging (if not dry): 1120 (ft.)
 Depth to Water After Recovery (if well purged dry): — (ft.)

841
948
091
276
370
543
543
555

Time	Volume Purged (gals)	Temp (°F)	Conductivity (us/cm)	pH (SU)	ORP (mV)	D.O. (mg/L or %)	Turbidity (NTU)	Water Level (ft. below TOC)
1256	—	11.81	484.0	10.10	-242	2.4%	clr	996.5
1307	107	14.39	734.0	8.62	76	22.5%	clr	1049.1
1346	435	14.77	668.5	8.96	149	42.0%	clr/Br	1069.1
1433	435	14.58	692.0	9.12	142	52.0%	clr/Br	1072.0
1447	529	14.99	702.9	9.15	146	56.4%	clr/Br	1083.0
1527		15.10	709.7	9.65	170	232%	clr/Br	1120
1529		15.06	708.8	9.57	171	226.9%	clr/Br	1120
1532	714	14.97	706.4	9.558	172	226.7%	clr/Br	1120
HydroLab was giving strange pH values. probe was repaired and recalibrated after sample								

520

SAMPLE INFORMATION

Sample Name	Date	Time	Notes
<u>MW-01-12072021</u>	<u>12/7/21</u>	<u>1532</u>	

Water column height = total depth of the well - measured depth to water

Coconino Bore Volume Calculation = 1.47 gallons per foot X height of water column (ft.)

Redwall Volume Calculation = 1.5 gallons per foot X 561 ft. (based on a TD of 3086-2525 historic water level)

**ENERGY FUELS
GROUNDWATER SAMPLING FORM**

Project Name: Pinyan Plain Groundwater Monitoring Date: 12/9/2021
 Sampler(s): Mutt Germansen Well No.: CYN-MON-02

WELL INFORMATION

Total Well Depth (ft.): 1135' Screened Interval (ft.): N/A to N/A
 Casing Diameter (in.): 6" Static Depth to Water (ft.): 988'

PURGE INFORMATION AND FIELD MEASUREMENTS

Time Started: 0811 Time Completed: 1205 Total Purge Time: 3:54
 Purge Method: Dedicated Pump Pump Placement: 1120
 Pump Type: Franklin Total Purge Volume: 246, 432, 648
 Pump Rate: 3-6 (gpm) Calculated Time to Purge 3 Volumes: _____ (mins.)
 Depth to Water after Purging (if not dry): N/A (ft.)
 Depth to Water After Recovery (if well purged dry): N/A (ft.)

411
.76
679
1839
251
055
5059

Time	Volume Purged (gals)	Temp (°C/°F)	Conductivity (µs/cm)	pH (SU)	ORP (mV)	D.O. (mg/L or %)	Turbidity (NTU)	Water Level (ft. below TOC)
0811	—	11.91	407.3	8.85	-168	2.820	clr	—
0932	268	14.83	498.5	10.03	86	63.8%	clr	—
1035	429	14.75	498.6	10.28	81	66.4%	clr	—
1200	640	14.86	498.7	10.43	81	67.1%	clr	—
1202	644	14.86	498.7	10.43	81	66.7%	clr	—
1205	648	14.86	498.3	10.93	81	67.0%	clr	—
↓ → pH sensor acting up as well during operation note jump in pH * issues calibrating conductivity sensor - still w/ 7% accuracy * Water level indicator failed prior to start of Purge								

SAMPLE INFORMATION

Sample Name	Date	Time	Notes
MW-02-12092021	12/9/21	1205	See above

Water column height = total depth of the well - measured depth to water
 Coconino Bore Volume Calculation = 1.47 gallons per foot X height of water column (ft.)
 Redwall Volume Calculation = 1.5 gallons per foot X 561 ft. (based on a TD of 3086-2525 historic water level)

**ENERGY FUELS
GROUNDWATER SAMPLING FORM**

Project Name: Piavon Plain Ground Water
 Sampler(s): Math Germainen

Date: 12/8/2021
 Well No.: CYN-MON-03

WELL INFORMATION

Total Well Depth (ft.): 1145 Screened Interval (ft.): N/A to N/A
 Casing Diameter (in.): 6" Static Depth to Water (ft.): 956.70

PURGE INFORMATION AND FIELD MEASUREMENTS

Time Started: 9:31 a.m Time Completed: 1454 Total Purge Time: _____
 Purge Method: Dedicated Pump Pump Placement: 1120
 Pump Type: Franklin Total Purge Volume: 833 (277/Borehole)
 Pump Rate: 2-5 (gpm) Calculated Time to Purge 3 Volumes: _____ (mins.)
 Depth to Water after Purging (if not dry): _____ (ft.)
 Depth to Water After Recovery (if well purged dry): N/A (ft.)

3568
3757
3858
4120
.26PM
2.76PM
*
15 1st
122 2nd
1401 3rd

Time	Volume Purged (gals)	Temp (°C/°F)	Conductivity (µs/cm)	pH (SU)	ORP (mV)	D.O. (mg/L or %)	Turbidity (NTU)	Water Level (ft. below TOC)
0931	0	11.75	693.2	8.59	-298	2.47%	clr	956.70
1105	189	14.92	1037	8.37	-103	2.2%	clr	1035.00
1130	290	15.73	1064.7	8.51	-94	2.2%	clr	1059.50
1255	552	14.79	1065.1	8.78	-80	2.7%	clr	1085.00
1422	743	14.87	1071.1	8.93	-96	2.0%	clr	1085.00
1450	845	14.93	1072.5	9.00	-90	3.2%	clr	1085
1452	847	14.94	1072.2	9.00	-88	3.4%	clr	"
1454	850	14.94	1072.2	9.01	-82	3.7%	clr	"
samples were stable but off calibration pH slightly								
PH probe was repaired after 1st strange samples observed on 12/7 sampling ↳ elevated pH prior to sampling may be additional issues arising ✓								

SAMPLE INFORMATION

Sample Name	Date	Time	Notes
MW-03-12082021	12/8/2021	1454	

Water column height = total depth of the well - measured depth to water
 Coconino Bore Volume Calculation = 1.47 gallons per foot X height of water column (ft.)
 Redwall Volume Calculation = 1.5 gallons per foot X 561 ft. (based on a TD of 3086-2525 historic water level)

ENERGY FUELS * Includes Dup samples
GROUNDWATER SAMPLING FORM

Project Name: Pinyon Plain Groundwater Monitoring Date: 3/3/2022
 Sampler(s): Matt Germansen Well No.: CYN-MON-01

WELL INFORMATION

Total Well Depth (ft.): 1148 Screened Interval (ft.): N/A to N/A
 Casing Diameter (in.): 6" Static Depth to Water (ft.): 994.80

PURGE INFORMATION AND FIELD MEASUREMENTS

Time Started: 0837 Time Completed: 1137 Total Purge Time: 3:00
 Purge Method: Dedicated Pump Pump Placement: 1120
 Pump Type: Franklin Total Purge Volume: 1148-994 = 154 x 3 = 462 x 1.47 = 679
 Pump Rate: 4-8 (gpm) Calculated Time to Purge 3 Volumes: N/A (mins.) gallons
 Depth to Water after Purging (if not dry): _____ (ft.)
 Depth to Water After Recovery (if well purged dry): _____ (ft.)

283
285
217
135
661
668
674

Time	Volume Purged (gals)	Temp (°C/°F)	Conductivity (µs/cm)	pH (SU)	ORP (mV)	D.O. (mg/L or %)	Turbidity (NTU)	Water Level (ft. below TOC)
837	-	-	-	-	-	-	-	994.80
0859	102	14.70	759.5	6.65	150	2.82%	Bur/d	1052.00
0935	* 234	14.49	700.2	6.93	139	7.82%	H rd	1055
1029	* 452	14.99	719.2	7.04	145	12.62%	clr	1074
1133	* 679	14.93	726.5	7.03	148	15.1%	clr	1080
1135	686	14.94	727.6	7.02	149	15.2%	"	
1137	692	14.96	725.8	7.04	150	15.3%	"	
* Hydrolab was repaired at factory after issues w/ 2021 Q4 sampling								
1st Purge =	7209							
2nd Purge =	7435							
3rd Purge =	7661							

SAMPLE INFORMATION

Sample Name	Date	Time	Notes
MW01-03032022	3/3/22	1137	
MW01-03032022 Dup	3/3/22	1137	

Water column height = total depth of the well - measured depth to water
 Coconino Bore Volume Calculation = 1.47 gallons per foot X height of water column (ft.)
 Redwall Volume Calculation = 1.5 gallons per foot X 561 ft. (based on a TD of 3086-2525 historic water level)

**ENERGY FUELS
GROUNDWATER SAMPLING FORM**

Project Name: Pinyon Plain Groundwater Monitoring Date: 2/28/2022
 Sampler(s): Matt Germanesen Well No.: CYN-MON-02

WELL INFORMATION

Total Well Depth (ft.): 1135' Screened Interval (ft.): N/A to N/A
 Casing Diameter (in.): 6" Static Depth to Water (ft.): 988.35

PURGE INFORMATION AND FIELD MEASUREMENTS

Time Started: 915 Time Completed: 1158 Total Purge Time: 2:43
 Purge Method: Dedicated Pump Pump Placement: 1120
 Pump Type: Franklin Total Purge Volume: 216,432, 648
 Pump Rate: 3-6 (gpm) Calculated Time to Purge 3 Volumes: _____ (mins.)
 Depth to Water after Purging (if not dry): N/A (ft.)
 Depth to Water After Recovery (if well purged dry): N/A (ft.) ~~Static water~~

191
192
193
194
195
196
197
198
199
200

Time	Volume Purged (gals)	Temp (°C/°F)	Conductivity (µs/cm)	pH (SU)	ORP (mV)	D.O. (mg/L or %)	Turbidity (NTU)	Water Level (ft. below TOC)
915	0	-	-	-	-	-	-	988.35
930		12.65	402	7.92	-166	2.4%	Br/Rd	1015.00
0945	121	15.05	522	6.98	53	4.7%	lt. rd	1059.30
1015	331	15.24	528	7.14	168	61.7%	lt. RD	1091.40
1039	382	14.37	518.7	7.09	200	64.4%	clr	1068.21
1119	530	14.90	525.4	7.17	209	62.6%	clr	N/A
1158	679	14.89	525.5	7.18	227	62.3%	clr	N/A
1st Purge =	407388	5287						
2nd Purge =	407602	5503						
3rd Purge =	407818	5719						

SAMPLE INFORMATION

Sample Name	Date	Time	Notes
<u>MW02-02282022</u>	<u>2/28/22</u>		
<u>MW02-02282022</u>	<u>2/28/22</u>	<u>1158</u>	

Water column height = total depth of the well - measured depth to water
 Coconino Bore Volume Calculation = 1.47 gallons per foot X height of water column (ft.)
 Redwall Volume Calculation = 1.5 gallons per foot X 561 ft. (based on a TD of 3086-2525 historic water level)

**ENERGY FUELS
GROUNDWATER SAMPLING FORM**

Project Name: Monsoon Pinyon Plain
 Sampler(s): Matt Germansen

Date: 3/2/22
 Well No.: CYN-MON-03

WELL INFORMATION

Total Well Depth (ft.): 1145 Screened Interval (ft.): N/A to N/A
 Casing Diameter (in.): 6" Static Depth to Water (ft.): 958.40

PURGE INFORMATION AND FIELD MEASUREMENTS

Time Started: 1044 Time Completed: 1519 Total Purge Time: 4:35
 Purge Method: Dedicated pump Pump Placement: 1120
 Pump Type: Franklin Total Purge Volume: 247/Borehole = 833 total
 Pump Rate: 2-5 (gpm) Calculated Time to Purge 3 Volumes: _____ (mins.)
 Depth to Water after Purging (if not dry): N/A (ft.)
 Depth to Water After Recovery (if well purged dry): N/A (ft.)

	Time	Volume Purged (gals)	Temp (°C/°F)	Conductivity (µs/cm)	pH (SU)	ORP (mV)	D.O. (mg/L or %)	Turbidity (NTU)	Water Level (ft. below TOC)
33	1044	-	-	-	-	-	-	-	958.4
201	1102	68	14.53	1088.3	6.72	65	0	CLR	-
422	1200	289	14.81	1090.5	6.70	99	0	CLR	-
700	1340	567	14.77	1111.8	6.76	83	14.9	CLR	-
951	1514	818	14.91	1123.0	6.74	76	13.3	CLR	-
5965	1517	834	14.97	1122.5	6.72	77	13.4	CLR	-
971	1519	840	14.98	1122.6	6.71	77	13.5	CLR	-
* Generator Failed when attempting to sample on 3/1/22									
↳ well was Pumped ~ 1.5 hrs on 3/1/22									
↳ Generator was Repaired 3/1/22 and full Purge + sample on 3/2/22									
		6133							
	1st Purge	6410							
	2nd Purge	6687							
	3rd Purge	6964							

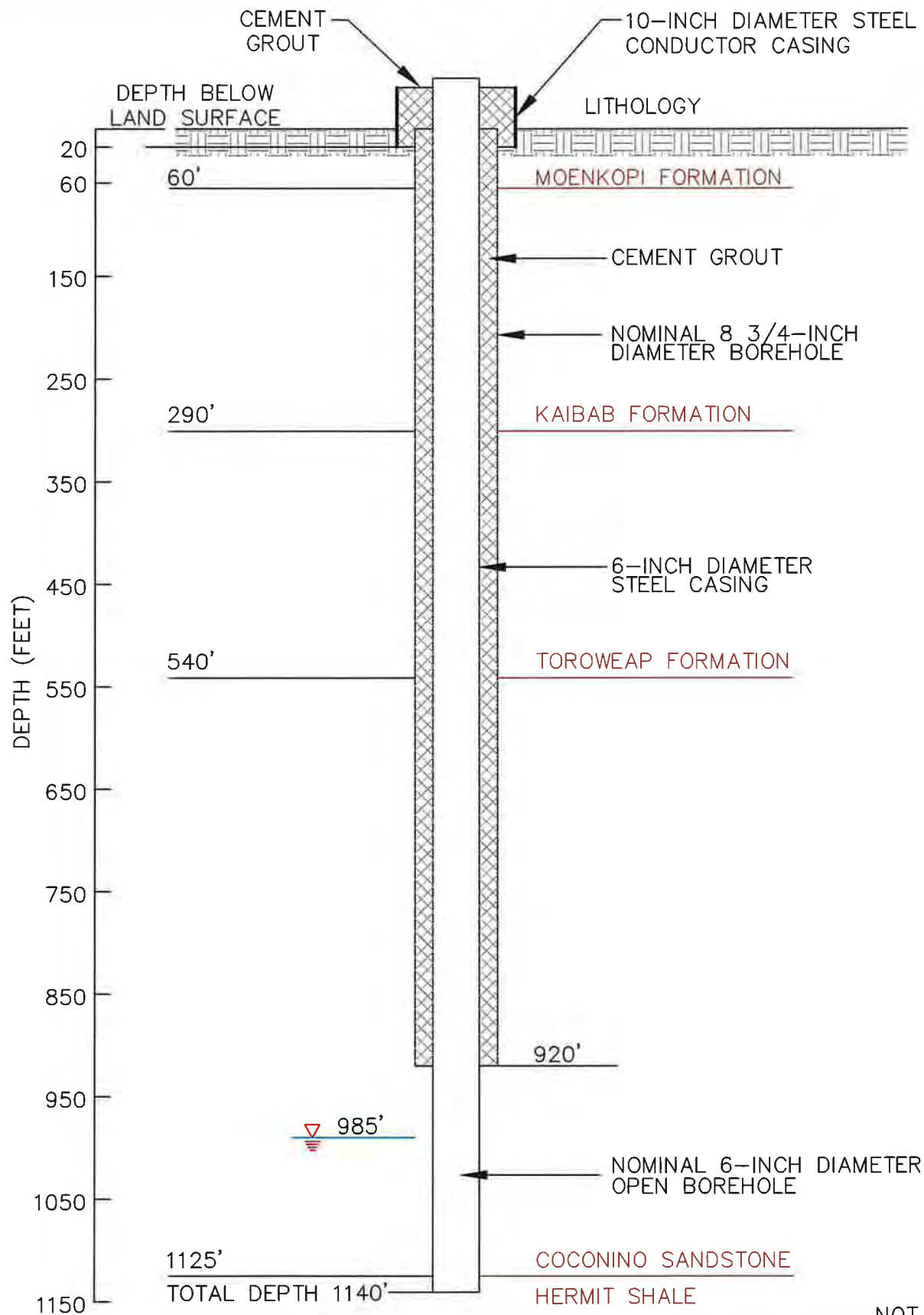
SAMPLE INFORMATION

Sample Name	Date	Time	Notes
MW03-03022022	3/2/22	1519	

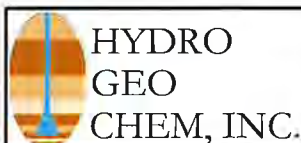
Water column height = total depth of the well - measured depth to water

Coconino Bore Volume Calculation = 1.47 gallons per foot X height of water column (ft.)

Redwall Volume Calculation = 1.5 gallons per foot X 561 ft. (based on a TD of 3086-2525 historic water level)

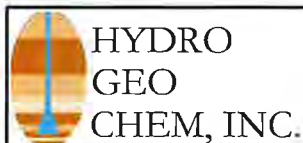
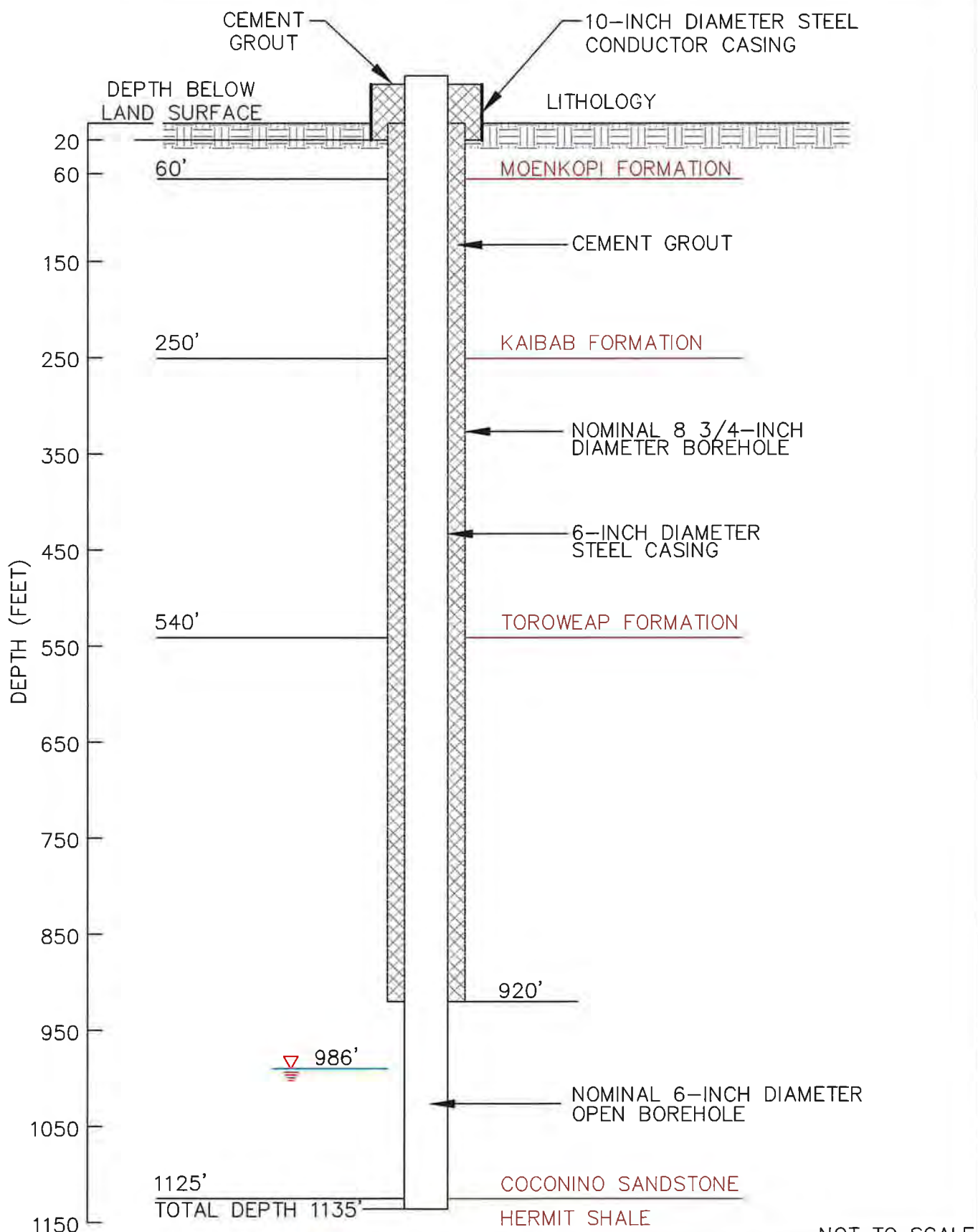


NOT TO SCALE



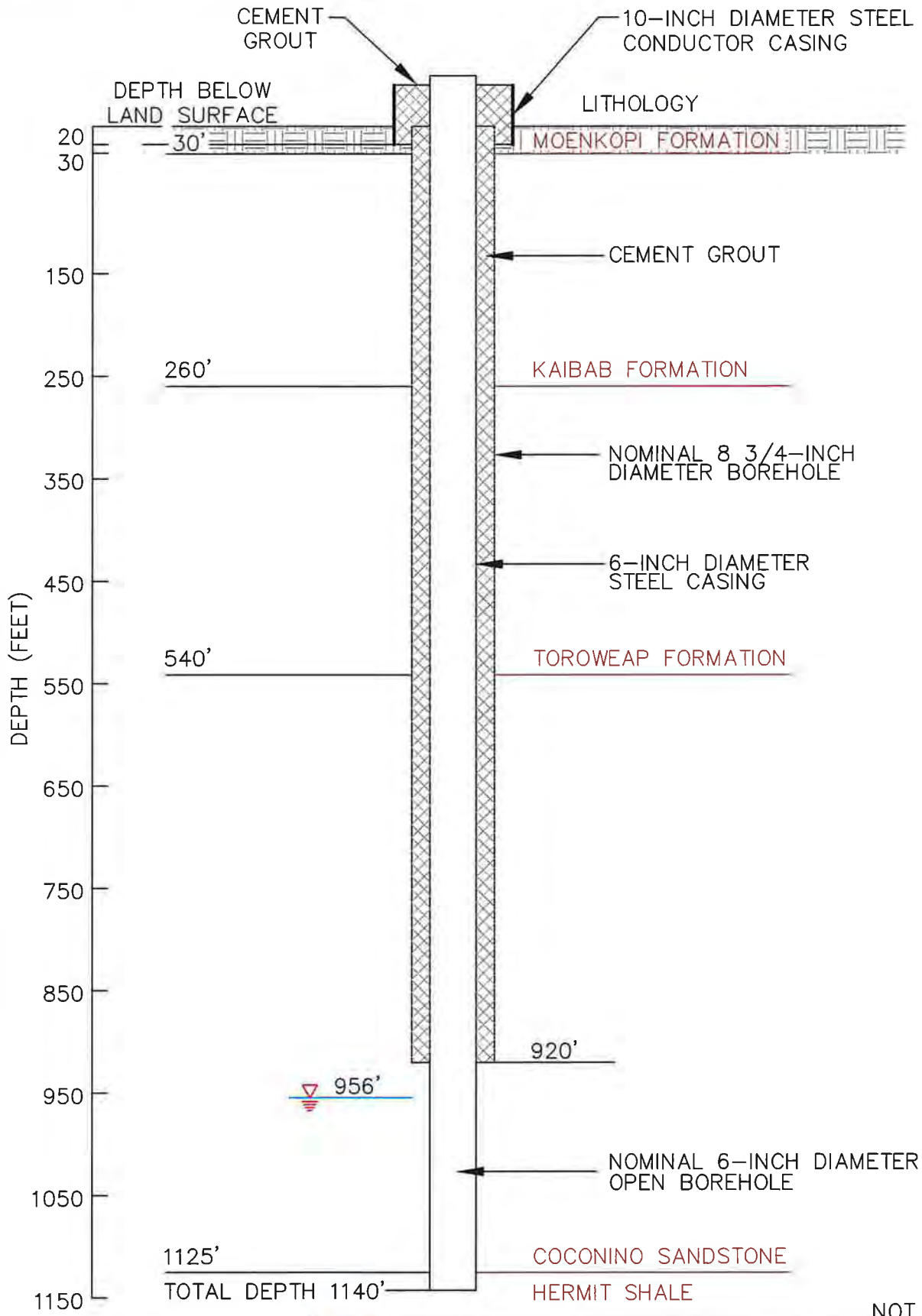
**EAST COCONINO WELL CONSTRUCTION DIAGRAM
PINYON PLAIN MINE SITE**

Approved	Date	Author	Date	File Name	Figure
SJS	03/05/21	JAA	03/05/21	7180295A	2

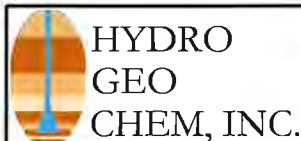


**NORTH COCONINO WELL CONSTRUCTION DIAGRAM
PINYON PLAIN MINE SITE**

Approved	Date	Author	Date	File Name	Figure
SJS	03/05/21	JAA	03/05/21	7180295A	3



NOT TO SCALE



**SOUTH COCONINO WELL CONSTRUCTION DIAGRAM
PINYON PLAIN MINE SITE**

Approved	Date	Author	Date	File Name	Figure
SJS	03/05/21	JAA	03/05/21	7180295A	4

**PINYON PLAIN MINE HYDROGEOLOGIC REPORT
KAIBAB NATIONAL FOREST
COCONINO COUNTY, ARIZONA**

November 11, 2020

Prepared for:

ENERGY FUELS RESOURCES (USA) INC
225 Union Blvd., Suite 600
Lakewood, Colorado 80228

Prepared by:

HYDRO GEO CHEM, INC.
51 West Wetmore Road, Suite 101
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Project Number 7181000.00

HYDRO GEO CHEM, INC.
Environmental Science & Technology

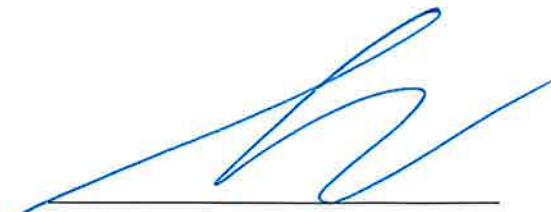


**PINYON PLAIN MINE HYDROGEOLOGIC REPORT
KAIBAB NATIONAL FOREST
COCONINO COUNTY, ARIZONA**

Prepared for:

ENERGY FUELS RESOURCES (USA) INC
225 Union Blvd., Suite 600
Lakewood, Colorado 80228

Prepared by:



Stewart J. Smith
Associate Hydrogeologist



Expires 3 / 31 / 2022

Abra J. Bentley, R.G.
Senior Scientist

November 11, 2020

9. MINE WATER SUPPLY/MONITOR WELL

As discussed in ELMA (1993), the Mine “water supply/monitor well (A-29-3)20bcd is located about 475 feet northwest from the location of the mine access shaft” (Figure 3A). Well construction and pumping test procedures and results are discussed below.

9.1 Well Construction

As discussed in ELMA (1993), the Mine “water supply/monitor well (A-29-3)20bcd was completed in April 1987” and the well “was designed and constructed to yield groundwater from the Redwall-Muav aquifer. Well construction details were obtained by inspection of drillers' logs, borehole geophysical logs, and EFN reports”. These details are provided in Figure 8; and a summary of groundwater level measurements is provided in Table 4.

“Well construction began by drilling a 17-¹/₂-inch diameter borehole to a depth of 20 feet, and setting and cementing 13-³/₈-inch blank steel casing” as shown in Figure 8. “A 10-⁵/₈-inch diameter borehole was then drilled to a depth of 2,281 feet to the upper part of the Redwall limestone, and centralized 8-⁵/₈-inch diameter blank steel casing was set and cemented to total depth of the borehole. Inspection of a cement bond log obtained on April 23, 1987, indicates that cement occurs from the base of the 10-³/₈-inch casing up to a depth of about 204 feet in the annulus between the 8-⁵/₈-inch casing and the 10-⁵/₈-inch borehole wall. The annulus is open from the top of the cement to land surface”.

“Drilling operations were completed by drilling a 7-⁷/₈-inch diameter borehole to a depth of 3,086 feet. Perforated and blank 5-¹/₂-inch diameter steel casing was installed from total depth of the well to land surface. Approximately 209 feet of perforated casing were installed in the Redwall-Muav aquifer in the depth interval from 2,584 to 2,960” “Perforations are ³/₁₆-inch by 3-inch vertical machine cut slots; eight slots per round, two rounds per foot.”

9.2 Pumping Test Procedures and Analysis of Pumping Test Results

As discussed in ELMA (1993), pumping tests for the Mine “water supply/monitor well were conducted by ELMA in cooperation with EFN personnel during the period from September 9 through 11, 1987. Pumping test operations consisted of a 1-hour preliminary test, a 3-hour step-discharge test, and a 24-hour constant-yield test.” Table 5 summarizes pumping test operational data and details of the pumping test procedures and data analysis are provided in Appendix E.

With regard to pumping test analysis, ELMA noted that “Aquifer transmissivity was estimated using water level drawdown data from the constant yield pumping test; results indicate transmissivity of about 240 gallons per day per foot width of aquifer at 1:1 hydraulic gradient (“gpd/ft”). Aquifer transmissivity was also estimated using water level recovery data from the constant yield pumping test; results indicate a transmissivity of about 900 gpd/ft. Aquifer

transmissivity estimated using drawdown data is in the same order of magnitude as transmissivity estimated using recovery data. However, drawdown data for pumping tests are commonly influenced by small fluctuations in pumping rate, by well losses, and by borehole head loss associated with non-laminar flow of groundwater in the aquifer adjacent to the borehole” ELMA believed these effects “to have influenced drawdown data”; considered the transmissivity estimate using the recovery data “to be more representative for aquifer conditions than transmissivity estimated using the drawdown data”; and assigned “a transmissivity of 900 gpd/ft” to the Redwall--Muav aquifer” at the wellsite.

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TABLE 4. SUMMARY OF GROUNDWATER LEVEL ALTITUDES
 PINYON PLAIN MINE WATER SUPPLY
 MONITOR WELL (A-29-3)20bcd

<u>DATE MEASURED</u>	<u>METHOD OF MEASUREMENT</u>	<u>DEPTH TO NON-PUMPING WATER LEVEL (feet)^a</u>
04-22-87	Air line	2,561
09-09-87	Transducer	2,564.2 ^b , 2,532.9 ^c
	Air line	2,564.2
04-29-88	Air line	2,559.6
06-28-88	Air line	2,559.6
09-20-88	Air line	2,563.1
12-27-88	Air line	2,563.1
04-17-89	Air line	2,704 ^d
05-30-89	Air line	2,700 ^d
08-21-89	Transducer	2,558.8 ^b , 2,527.5 ^c
	Air line	2,700 ^d
09-04-89	Air line	--- ^d
12-30-89	Transducer	--- ^e
	Air line	--- ^d
03-30-90	Transducer	2,534 ^c
	Air line	--- ^d
06-29-90	Transducer	2,535 ^c
09-19-90	Transducer	2,534 ^c
12-26-90	Transducer	2,534 ^c
03-22-91	Transducer	2,534 ^c
06-11-91	Transducer	2,534 ^c
08-20-91	Transducer	2,534 ^c
12-24-91	Transducer	2,534 ^c
01-15-92	Transducer	2,534 ^c
05-01-92	Transducer	2,534 ^c
07-16-92	Transducer	2,534 ^c
11-16-92	Transducer	2,534 ^c
01-21-93	Transducer	2,534 ^c
05-14-93	Transducer	2,534 ^c
07-29-93	Transducer	2,534 ^c 2,567.7 ^b , 2,536.4 ^c

^a Depth below land surface; altitude of land surface at Canyon Mine supply/monitor well is 6,507 feet above mean sea level.

^b Water level calculated using airline non-pumping water level measured 09-09-87.

^c Water level calculated using factory calibration for pressure transducer.

^d Air line system malfunctioned; depth to non-pumping water level was not reported or is inaccurate.

^e Transducer system display unit malfunctioned; depth to non-pumping water level was not reported.



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 TUCSON, ARIZONA

TABLE 5. HYDROLOGIC DATA OBTAINED FROM STEP-DISCHARGE AND
 CONSTANT YIELD PUMPING TEST CONDUCTED AT THE
 PINYON PLAIN MINE WATER SUPPLY MONITOR WELL
 SEPTEMBER 9 THROUGH 11, 1987

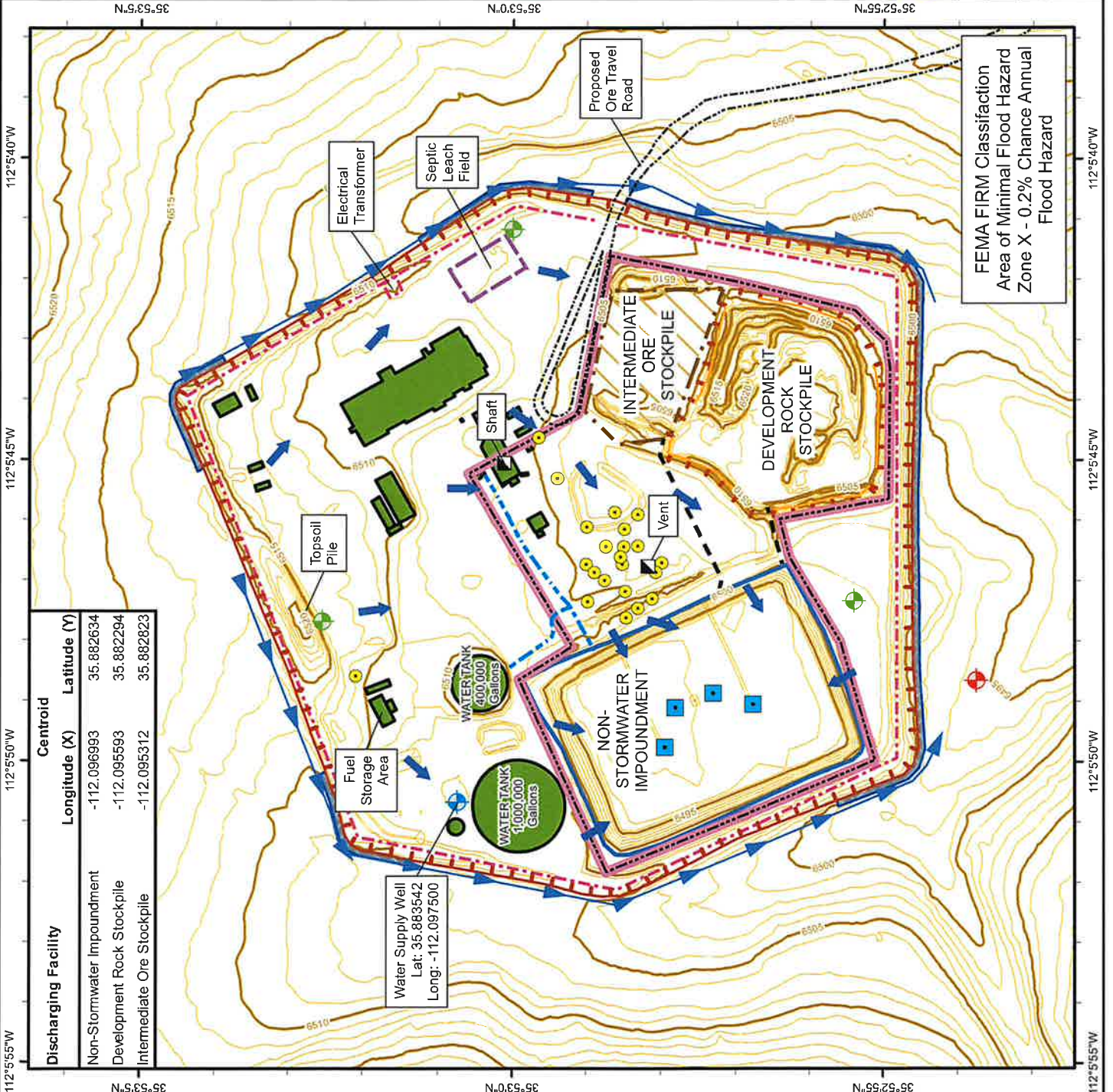
<u>PUMPING RATE (gpm)^a</u>	<u>DURATION OF PUMPING STEP (minutes)</u>	<u>DRAWDOWN 60 MINUTES AFTER STEP STARTED (feet)</u>	<u>MAXIMUM DRAWDOWN DURING PUMPING STEP (feet)</u>	<u>SPECIFIC CAPACITY^b (gpm/ft)</u>	<u>WELL EFFICIENCY (percent)</u>
20	60	55.10	55.10	0.4	54
28	120	98.26	103.65	0.3	42
35	1,440	151.27	187.34	0.2	34

^a gallons per minute

^b Specific capacity of a well is computed by dividing the pumping rate by the maximum drawdown at that rate, and has units of gallons per minute per foot of drawdown.

NOTE: The weighted average pumping rate for the combined pumping period of 27 hours for the step-discharge and constant yield pumping test was about 34 gpm.



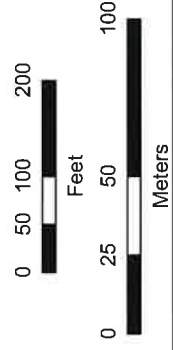


FEMA FIRM Classification
 Area of Minimal Flood Hazard
 Zone X - 0.2% Chance Annual
 Flood Hazard

Discharging Facility	Centroid	
	Longitude (X)	Latitude (Y)
Non-Stormwater Impoundment	-112.096993	35.882634
Development Rock Stockpile	-112.095593	35.882294
Intermediate Ore Stockpile	-112.095312	35.882823

Water Supply Well
 Lat: 35.883542
 Long: -112.097500

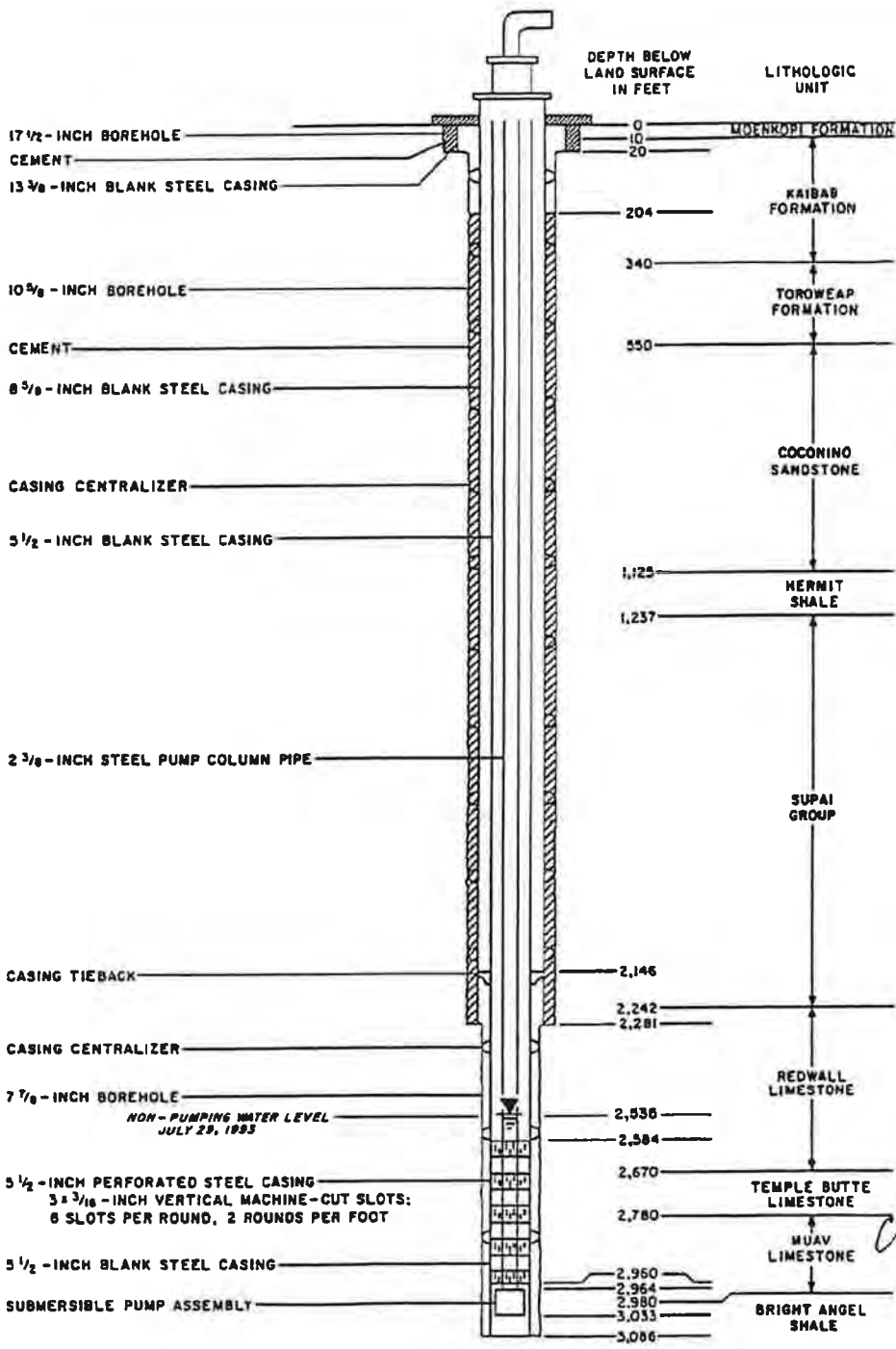
- Legend**
- Evaporative Water System
 - Coconino Monitoring Well (potential POC)
 - USGS Coconino Well
 - Redwall-Muav Water Supply/Monitoring Well (POC)
 - Surface Boring
 - Surface Water Flow Direction
 - Surface Water Diversion
 - Berm
 - 16" HDPE Pipe
 - 4" PVC Discharge
 - Fence Line
 - Pollutant Management Area & Discharge Impact Area
 - Rip Rap
 - Building/Structure
 - Major Contour - 5 ft
 - Minor Contour - 1 ft



Energy Fuels Resources (USA) Inc

Pinyon Plain Mine
 T29N, R03E, Section 20, Coconino County, AZ
 11/09/2020 - APP Permit Application

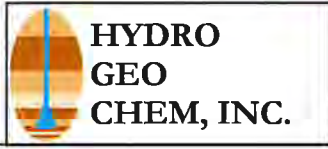
Figure 3-A
Site Plan



ALTITUDE OF LAND SURFACE
APPROXIMATELY 8,507 FEET MSL



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TUCSON, ARIZONA



SCHEMATIC DIAGRAM OF CONSTRUCTION FOR PINYON PLAIN MINE WATER SUPPLY/ MONITORING WELL (A-29-3)20bcd (From ELMA, 1993)					
Approved	Date	Author	Date	File Name	Figure
SJS	9/10/20	SJS	9/10/20	Figure 8	8

APPENDIX C

AMBIENT GROUNDWATER DATA

APPENDIX A
Groundwater Monitoring Results for POC #1, POC #2, POC #3, and POC #4
EFRI - Pinyon Plain Mine

Well	Date	Parameter	Units	Result	PQL	MDL	Extreme Outlier?
POC #1	3/16/2021	Antimony	ug/L	7.18	2	0.4	no
POC #1	5/10/2021	Antimony	ug/L	4.4	2	0.4	no
POC #1	9/1/2021	Antimony	ug/L	4.5	2	0.4	no
POC #1	12/7/2021	Antimony	ug/L	10.9	2	0.4	no
POC #1	3/3/2022	Antimony	ug/L	6.33	2	0.4	no
POC #1	5/25/2022	Antimony	ug/L	3.43	2	0.4	no
POC #1	9/18/2022	Antimony	ug/L	<4.3	10	4.3	no
POC #1	11/12/2022	Antimony	ug/L	10.7	10	4.3	no
POC #1	2/11/2023	Antimony	ug/L	<4.3	10	4.3	no
POC #1	5/8/2023	Antimony	ug/L	3.73	4	1.03	no
POC #1	7/31/2023	Antimony	ug/L	3.88	4	1.03	no
POC #1	12/11/2023	Antimony	ug/L	3.79	4	1.03	no
POC #1	3/16/2021	Arsenic	ug/L	126	1	0.2	no
POC #1	5/10/2021	Arsenic	ug/L	76.5	1	0.2	no
POC #1	9/1/2021	Arsenic	ug/L	70	1	0.2	no
POC #1	12/7/2021	Arsenic	ug/L	158	1	0.2	no
POC #1	3/3/2022	Arsenic	ug/L	178	1	0.2	no
POC #1	5/25/2022	Arsenic	ug/L	42.2	1	0.2	no
POC #1	9/18/2022	Arsenic	ug/L	43.5	10	4.4	no
POC #1	11/12/2022	Arsenic	ug/L	42.7	10	4.4	no
POC #1	2/11/2023	Arsenic	ug/L	31	10	4.4	no
POC #1	5/8/2023	Arsenic	ug/L	27.7	10	4.4	no
POC #1	7/31/2023	Arsenic	ug/L	30.2	10	4.4	no
POC #1	12/11/2023	Arsenic	ug/L	24.3	10	4.4	no
POC #1	3/16/2021	Barium	ug/L	21.5	35	7	no
POC #1	5/10/2021	Barium	ug/L	23.3	35	7	no
POC #1	9/1/2021	Barium	ug/L	29.5	35	7	no
POC #1	12/7/2021	Barium	ug/L	25.3	35	7	no
POC #1	3/3/2022	Barium	ug/L	27.5	35	7	no
POC #1	5/25/2022	Barium	ug/L	26.1	35	9	no
POC #1	9/18/2022	Barium	ug/L	25.2	5	0.736	no
POC #1	11/12/2022	Barium	ug/L	27.9	5	0.736	no
POC #1	2/11/2023	Barium	ug/L	27	5	0.736	no
POC #1	5/8/2023	Barium	ug/L	29.3	5	0.736	no
POC #1	7/31/2023	Barium	ug/L	32.9	5	0.736	no
POC #1	12/11/2023	Barium	ug/L	31.2	5	0.736	no
POC #1	3/16/2021	Beryllium	ug/L	<0.08	0.25	0.08	NA
POC #1	5/10/2021	Beryllium	ug/L	<0.08	0.25	0.08	NA
POC #1	9/1/2021	Beryllium	ug/L	<0.08	0.25	0.08	NA

APPENDIX A
Groundwater Monitoring Results for POC #1, POC #2, POC #3, and POC #4
EFRI - Pinyon Plain Mine

Well	Date	Parameter	Units	Result	PQL	MDL	Extreme Outlier?
POC #1	12/7/2021	Beryllium	ug/L	<0.08	0.25	0.08	NA
POC #1	3/3/2022	Beryllium	ug/L	<0.08	0.25	0.08	NA
POC #1	5/25/2022	Beryllium	ug/L	<0.08	0.25	0.08	NA
POC #1	9/18/2022	Beryllium	ug/L	<0.33	2	0.33	NA
POC #1	11/12/2022	Beryllium	ug/L	<0.33	2	0.33	NA
POC #1	2/11/2023	Beryllium	ug/L	<0.33	2	0.33	NA
POC #1	5/8/2023	Beryllium	ug/L	<0.33	2	0.33	NA
POC #1	7/31/2023	Beryllium	ug/L	<0.33	2	0.33	NA
POC #1	12/11/2023	Beryllium	ug/L	<0.33	2	0.33	NA
POC #1	3/16/2021	Cadmium	ug/L	<0.05	0.25	0.05	NA
POC #1	5/10/2021	Cadmium	ug/L	<0.05	0.25	0.05	NA
POC #1	9/1/2021	Cadmium	ug/L	<0.05	0.25	0.05	NA
POC #1	12/7/2021	Cadmium	ug/L	<0.05	0.25	0.05	NA
POC #1	3/3/2022	Cadmium	ug/L	<0.05	0.25	0.05	NA
POC #1	5/25/2022	Cadmium	ug/L	<0.05	0.25	0.05	NA
POC #1	9/18/2022	Cadmium	ug/L	<0.479	2	0.479	NA
POC #1	11/12/2022	Cadmium	ug/L	<0.479	2	0.479	NA
POC #1	2/11/2023	Cadmium	ug/L	<0.479	2	0.479	NA
POC #1	5/8/2023	Cadmium	ug/L	<0.479	2	0.479	NA
POC #1	7/31/2023	Cadmium	ug/L	<0.479	2	0.479	NA
POC #1	12/11/2023	Cadmium	ug/L	<0.479	2	0.479	NA
POC #1	3/16/2021	Chromium	ug/L	<10	50	10	NA
POC #1	5/10/2021	Chromium	ug/L	<20	50	20	NA
POC #1	9/1/2021	Chromium	ug/L	<20	50	20	NA
POC #1	12/7/2021	Chromium	ug/L	<20	50	20	NA
POC #1	3/3/2022	Chromium	ug/L	<20	50	20	NA
POC #1	5/25/2022	Chromium	ug/L	<20	50	20	NA
POC #1	9/18/2022	Chromium	ug/L	<1.4	10	1.4	NA
POC #1	11/12/2022	Chromium	ug/L	1.55	10	1.4	NA
POC #1	2/11/2023	Chromium	ug/L	<1.4	10	1.4	NA
POC #1	5/8/2023	Chromium	ug/L	<1.4	10	1.4	NA
POC #1	7/31/2023	Chromium	ug/L	<1.4	10	1.4	NA
POC #1	12/11/2023	Chromium	ug/L	<1.4	10	1.4	NA
POC #1	3/16/2021	Field pH	s.u.	7.08			no
POC #1	5/10/2021	Field pH	s.u.	7.27			no
POC #1	9/1/2021	Field pH	s.u.	7.54			no
POC #1	12/7/2021	Field pH	s.u.	9.558			yes
POC #1	3/3/2022	Field pH	s.u.	7.04			no
POC #1	5/25/2022	Field pH	s.u.	7.15			no

APPENDIX A
Groundwater Monitoring Results for POC #1, POC #2, POC #3, and POC #4
EFRI - Pinyon Plain Mine

Well	Date	Parameter	Units	Result	PQL	MDL	Extreme Outlier?
POC #1	9/18/2022	Field pH	s.u.	7.7			no
POC #1	11/15/2022	Field pH	s.u.	7.44			no
POC #1	2/11/2023	Field pH	s.u.	7.55			no
POC #1	5/8/2023	Field pH	s.u.	7.12			no
POC #1	7/31/2023	Field pH	s.u.	7			no
POC #1	12/11/2023	Field pH	s.u.	7.4			no
POC #1	3/16/2021	Fluoride	mg/L	<0.25	1.25	0.25	no
POC #1	5/10/2021	Fluoride	mg/L	<0.25	1.25	0.25	no
POC #1	9/1/2021	Fluoride	mg/L	0.28	0.35	0.15	no
POC #1	12/7/2021	Fluoride	mg/L	0.15	0.35	0.15	no
POC #1	3/3/2022	Fluoride	mg/L	0.17	0.35	0.15	no
POC #1	5/25/2022	Fluoride	mg/L	0.23	0.35	0.15	no
POC #1	9/18/2022	Fluoride	mg/L	0.148	0.15	0.064	no
POC #1	11/12/2022	Fluoride	mg/L	0.274	0.15	0.064	no
POC #1	2/11/2023	Fluoride	mg/L	0.146	0.15	0.064	no
POC #1	5/8/2023	Fluoride	mg/L	0.251	0.5	0.198	no
POC #1	7/31/2023	Fluoride	mg/L	0.132	0.15	0.064	no
POC #1	12/11/2023	Fluoride	mg/L	0.0858	0.15	0.064	no
POC #1	3/16/2021	Gross Alpha minus Rn and U	pCi/L	-7.7			no
POC #1	5/10/2021	Gross Alpha minus Rn and U	pCi/L	3.8			no
POC #1	9/1/2021	Gross Alpha minus Rn and U	pCi/L	-5.1			no
POC #1	12/7/2021	Gross Alpha minus Rn and U	pCi/L	27.1			no
POC #1	5/25/2022	Gross Alpha minus Rn and U	pCi/L	20.7			no
POC #1	9/18/2022	Gross Alpha minus Rn and U	pCi/L	12.8			no
POC #1	11/12/2022	Gross Alpha minus Rn and U	pCi/L	4.31			no
POC #1	2/11/2023	Gross Alpha minus Rn and U	pCi/L	18.3			no
POC #1	5/8/2023	Gross Alpha minus Rn and U	pCi/L	20.3			no
POC #1	7/31/2023	Gross Alpha minus Rn and U	pCi/L	47			no
POC #1	12/11/2023	Gross Alpha minus Rn and U	pCi/L	20.1			no
POC #1	3/16/2021	Lead	ug/L	<0.1	0.5	0.1	NA
POC #1	5/10/2021	Lead	ug/L	<0.1	0.5	0.1	NA
POC #1	9/1/2021	Lead	ug/L	1.42	0.5	0.1	NA
POC #1	12/7/2021	Lead	ug/L	0.25	0.5	0.1	NA
POC #1	3/3/2022	Lead	ug/L	4.37	0.5	0.1	NA
POC #1	5/25/2022	Lead	ug/L	<0.1	0.5	0.1	NA
POC #1	9/18/2022	Lead	ug/L	<2.99	6	2.99	NA
POC #1	11/12/2022	Lead	ug/L	<2.99	6	2.99	NA
POC #1	2/11/2023	Lead	ug/L	4.56	6	2.99	NA
POC #1	5/8/2023	Lead	ug/L	<2.99	6	2.99	NA

APPENDIX A
Groundwater Monitoring Results for POC #1, POC #2, POC #3, and POC #4
EFRI - Pinyon Plain Mine

Well	Date	Parameter	Units	Result	PQL	MDL	Extreme Outlier?
POC #1	7/31/2023	Lead	ug/L	<2.99	6	2.99	NA
POC #1	12/11/2023	Lead	ug/L	<2.99	6	2.99	NA
POC #1	3/16/2021	Mercury	ug/L	<0.2	1	0.2	NA
POC #1	5/10/2021	Mercury	ug/L	<0.2	1	0.2	NA
POC #1	9/1/2021	Mercury	ug/L	<0.2	1	0.2	NA
POC #1	12/7/2021	Mercury	ug/L	<0.2	1	0.2	NA
POC #1	3/3/2022	Mercury	ug/L	<0.2	1	0.2	NA
POC #1	5/25/2022	Mercury	ug/L	<0.2	1	0.2	NA
POC #1	9/18/2022	Mercury	ug/L	<0.1	0.2	0.1	NA
POC #1	11/12/2022	Mercury	ug/L	<0.1	0.2	0.1	NA
POC #1	2/11/2023	Mercury	ug/L	<0.1	0.2	0.1	NA
POC #1	5/8/2023	Mercury	ug/L	<0.1	0.2	0.1	NA
POC #1	7/31/2023	Mercury	ug/L	<0.1	0.2	0.1	NA
POC #1	12/11/2023	Mercury	ug/L	<0.1	0.2	0.1	NA
POC #1	3/16/2021	Nickel	ug/L	276	40	8	no
POC #1	5/10/2021	Nickel	ug/L	158	40	8	no
POC #1	9/1/2021	Nickel	ug/L	109	40	8	no
POC #1	12/7/2021	Nickel	ug/L	206	40	8	no
POC #1	3/3/2022	Nickel	ug/L	83	40	8	no
POC #1	5/25/2022	Nickel	ug/L	70.2	40	8	no
POC #1	9/18/2022	Nickel	ug/L	53.4	10	1.61	no
POC #1	11/12/2022	Nickel	ug/L	95.3	10	1.61	no
POC #1	2/11/2023	Nickel	ug/L	74.3	10	1.61	no
POC #1	5/8/2023	Nickel	ug/L	62.8	10	1.61	no
POC #1	7/31/2023	Nickel	ug/L	61.4	10	1.61	no
POC #1	12/11/2023	Nickel	ug/L	53.7	10	1.61	no
POC #1	3/16/2021	Nitrate + Nitrite as N	mg/L	0.02	0.1	0.02	NA
POC #1	5/10/2021	Nitrate + Nitrite as N	mg/L	0.02	0.1	0.02	NA
POC #1	9/1/2021	Nitrate + Nitrite as N	mg/L	<0.02	0.1	0.02	NA
POC #1	12/7/2021	Nitrate + Nitrite as N	mg/L	<0.02	0.1	0.02	NA
POC #1	3/3/2022	Nitrate + Nitrite as N	mg/L	<0.02	0.1	0.02	NA
POC #1	5/25/2022	Nitrate + Nitrite as N	mg/L	<0.02	0.1	0.02	NA
POC #1	9/18/2022	Nitrate + Nitrite as N	mg/L	<0.05	0.1	0.05	NA
POC #1	11/12/2022	Nitrate + Nitrite as N	mg/L	<0.05	0.1	0.05	NA
POC #1	2/11/2023	Nitrate + Nitrite as N	mg/L	0.0948	0.1	0.05	NA
POC #1	5/8/2023	Nitrate + Nitrite as N	mg/L	<0.05	0.1	0.05	NA
POC #1	7/31/2023	Nitrate + Nitrite as N	mg/L	<0.05	0.1	0.05	NA
POC #1	12/11/2023	Nitrate + Nitrite as N	mg/L	<0.05	0.1	0.05	NA
POC #1	3/16/2021	Radium-226+228	pCi/L	3.97			no

APPENDIX A
Groundwater Monitoring Results for POC #1, POC #2, POC #3, and POC #4
EFRI - Pinyon Plain Mine

Well	Date	Parameter	Units	Result	PQL	MDL	Extreme Outlier?
POC #1	5/10/2021	Radium-226+228	pCi/L	1.98			no
POC #1	9/1/2021	Radium-226+228	pCi/L	4.1			no
POC #1	12/7/2021	Radium-226+228	pCi/L	4.68			no
POC #1	3/3/2022	Radium-226+228	pCi/L	3.21			no
POC #1	5/25/2022	Radium-226+228	pCi/L	2.849			no
POC #1	9/18/2022	Radium-226+228	pCi/L	2.8218			no
POC #1	11/12/2022	Radium-226+228	pCi/L	3.715			no
POC #1	2/11/2023	Radium-226+228	pCi/L	4.715			no
POC #1	5/8/2023	Radium-226+228	pCi/L	5.62			no
POC #1	7/31/2023	Radium-226+228	pCi/L	4.786			no
POC #1	12/11/2023	Radium-226+228	pCi/L	4.613			no
POC #1	3/16/2021	Selenium	ug/L	0.12	0.25	0.1	NA
POC #1	5/10/2021	Selenium	ug/L	<0.1	0.25	0.1	NA
POC #1	9/1/2021	Selenium	ug/L	0.12	0.25	0.1	NA
POC #1	12/7/2021	Selenium	ug/L	<0.1	0.25	0.1	NA
POC #1	3/3/2022	Selenium	ug/L	<0.1	0.25	0.1	NA
POC #1	5/25/2022	Selenium	ug/L	<0.1	0.25	0.1	NA
POC #1	9/18/2022	Selenium	ug/L	<7.35	10	7.35	NA
POC #1	11/12/2022	Selenium	ug/L	<7.35	10	7.35	NA
POC #1	2/11/2023	Selenium	ug/L	10.1	10	7.35	NA
POC #1	5/8/2023	Selenium	ug/L	<7.35	10	7.35	NA
POC #1	7/31/2023	Selenium	ug/L	<7.35	10	7.35	NA
POC #1	12/11/2023	Selenium	ug/L	<7.35	10	7.35	NA
POC #1	3/16/2021	Thallium	ug/L	1.85	0.5	0.1	no
POC #1	5/10/2021	Thallium	ug/L	1.73	0.5	0.1	no
POC #1	9/1/2021	Thallium	ug/L	1.23	0.5	0.1	no
POC #1	12/7/2021	Thallium	ug/L	2.15	0.5	0.1	no
POC #1	3/3/2022	Thallium	ug/L	1.39	0.5	0.1	no
POC #1	5/25/2022	Thallium	ug/L	1.19	0.5	0.1	no
POC #1	5/8/2023	Thallium	ug/L	0.977	2	0.121	no
POC #1	7/31/2023	Thallium	ug/L	1.02	2	0.121	no
POC #1	12/11/2023	Thallium	ug/L	0.893	2	0.121	no
POC #1	3/16/2021	Uranium	ug/L	43.7	0.5	0.1	no
POC #1	5/10/2021	Uranium	ug/L	25.9	0.5	0.1	no
POC #1	9/1/2021	Uranium	ug/L	13.8	0.5	0.1	no
POC #1	12/7/2021	Uranium	ug/L	19.8	0.5	0.1	no
POC #1	3/3/2022	Uranium	ug/L	14.7	0.5	0.1	no
POC #1	5/25/2022	Uranium	ug/L	10.8	0.5	0.1	no
POC #1	9/18/2022	Uranium	ug/L	10.3	1	0.0789	no

APPENDIX A
Groundwater Monitoring Results for POC #1, POC #2, POC #3, and POC #4
EFRI - Pinyon Plain Mine

Well	Date	Parameter	Units	Result	PQL	MDL	Extreme Outlier?
POC #1	11/12/2022	Uranium	ug/L	11.4	1	0.0789	no
POC #1	2/11/2023	Uranium	ug/L	8.42	1	0.0789	no
POC #1	5/8/2023	Uranium	ug/L	7.22	1	0.0789	no
POC #1	7/31/2023	Uranium	ug/L	7.12	1	0.0789	no
POC #1	12/11/2023	Uranium	ug/L	7.64	1	0.0789	no
POC #2	3/16/2021	Antimony	ug/L	0.72	2	0.4	NA
POC #2	5/10/2021	Antimony	ug/L	0.54	2	0.4	NA
POC #2	9/1/2021	Antimony	ug/L	0.44	2	0.4	NA
POC #2	12/9/2021	Antimony	ug/L	<0.4	2	0.4	NA
POC #2	2/28/2022	Antimony	ug/L	<0.4	2	0.4	NA
POC #2	5/26/2022	Antimony	ug/L	<0.4	2	0.4	NA
POC #2	9/18/2022	Antimony	ug/L	<4.3	10	4.3	NA
POC #2	11/12/2022	Antimony	ug/L	4.91	10	4.3	NA
POC #2	2/13/2023	Antimony	ug/L	<4.3	10	4.3	NA
POC #2	5/7/2023	Antimony	ug/L	<4.3	4	1.03	NA
POC #2	8/3/2023	Antimony	ug/L	<4.3	4	1.03	NA
POC #2	12/10/2023	Antimony	ug/L	<4.3	4	1.03	NA
POC #2	3/16/2021	Arsenic	ug/L	5.27	1	0.2	no
POC #2	5/10/2021	Arsenic	ug/L	6.39	1	0.2	no
POC #2	9/1/2021	Arsenic	ug/L	6.3	1	0.2	no
POC #2	12/9/2021	Arsenic	ug/L	2.54	1	0.2	no
POC #2	2/28/2022	Arsenic	ug/L	3.67	1	0.2	no
POC #2	5/26/2022	Arsenic	ug/L	3.28	1	0.2	no
POC #2	9/18/2022	Arsenic	ug/L	5.84	10	4.4	no
POC #2	11/12/2022	Arsenic	ug/L	6.63	10	4.4	no
POC #2	2/13/2023	Arsenic	ug/L	<4.4	10	4.4	no
POC #2	5/7/2023	Arsenic	ug/L	27.5	10	4.4	yes
POC #2	8/3/2023	Arsenic	ug/L	<4.4	10	4.4	no
POC #2	12/10/2023	Arsenic	ug/L	<4.4	10	4.4	no
POC #2	3/16/2021	Barium	ug/L	53.2	35	7	no
POC #2	5/10/2021	Barium	ug/L	53.1	35	7	no
POC #2	9/1/2021	Barium	ug/L	54	35	7	no
POC #2	12/9/2021	Barium	ug/L	45.9	35	7	no
POC #2	2/28/2022	Barium	ug/L	48.2	35	7	no
POC #2	5/26/2022	Barium	ug/L	49.5	35	9	no
POC #2	9/18/2022	Barium	ug/L	49.6	5	0.736	no
POC #2	11/12/2022	Barium	ug/L	51.7	5	0.736	no
POC #2	2/13/2023	Barium	ug/L	47.7	5	0.736	no
POC #2	5/7/2023	Barium	ug/L	7.08	5	0.736	yes

APPENDIX A
Groundwater Monitoring Results for POC #1, POC #2, POC #3, and POC #4
EFRI - Pinyon Plain Mine

Well	Date	Parameter	Units	Result	PQL	MDL	Extreme Outlier?
POC #2	8/3/2023	Barium	ug/L	51.7	5	0.736	no
POC #2	12/10/2023	Barium	ug/L	49.1	5	0.736	no
POC #2	3/16/2021	Beryllium	ug/L	<0.08	0.25	0.08	NA
POC #2	5/10/2021	Beryllium	ug/L	<0.08	0.25	0.08	NA
POC #2	9/1/2021	Beryllium	ug/L	<0.08	0.25	0.08	NA
POC #2	12/9/2021	Beryllium	ug/L	<0.08	0.25	0.08	NA
POC #2	2/28/2022	Beryllium	ug/L	<0.08	0.25	0.08	NA
POC #2	5/26/2022	Beryllium	ug/L	<0.08	0.25	0.08	NA
POC #2	9/18/2022	Beryllium	ug/L	<0.33	2	0.33	NA
POC #2	11/12/2022	Beryllium	ug/L	<0.33	2	0.33	NA
POC #2	2/13/2023	Beryllium	ug/L	<0.33	2	0.33	NA
POC #2	5/7/2023	Beryllium	ug/L	<0.33	2	0.33	NA
POC #2	8/3/2023	Beryllium	ug/L	<0.33	2	0.33	NA
POC #2	12/10/2023	Beryllium	ug/L	<0.33	2	0.33	NA
POC #2	3/16/2021	Cadmium	ug/L	<0.05	0.25	0.05	NA
POC #2	5/10/2021	Cadmium	ug/L	<0.05	0.25	0.05	NA
POC #2	9/1/2021	Cadmium	ug/L	<0.05	0.25	0.05	NA
POC #2	12/9/2021	Cadmium	ug/L	<0.05	0.25	0.05	NA
POC #2	2/28/2022	Cadmium	ug/L	<0.05	0.25	0.05	NA
POC #2	5/26/2022	Cadmium	ug/L	<0.05	0.25	0.05	NA
POC #2	9/18/2022	Cadmium	ug/L	<0.479	2	0.479	NA
POC #2	11/12/2022	Cadmium	ug/L	0.541	2	0.479	NA
POC #2	2/13/2023	Cadmium	ug/L	0.72	2	0.479	NA
POC #2	5/7/2023	Cadmium	ug/L	0.908	2	0.479	NA
POC #2	8/3/2023	Cadmium	ug/L	<0.479	2	0.479	NA
POC #2	12/10/2023	Cadmium	ug/L	<0.479	2	0.479	NA
POC #2	3/16/2021	Chromium	ug/L	<10	50	10	NA
POC #2	5/10/2021	Chromium	ug/L	<20	50	20	NA
POC #2	9/1/2021	Chromium	ug/L	<20	50	20	NA
POC #2	12/9/2021	Chromium	ug/L	<20	50	20	NA
POC #2	2/28/2022	Chromium	ug/L	<20	50	20	NA
POC #2	5/26/2022	Chromium	ug/L	<20	50	20	NA
POC #2	9/18/2022	Chromium	ug/L	<1.4	10	1.4	NA
POC #2	11/12/2022	Chromium	ug/L	1.76	10	1.4	NA
POC #2	2/13/2023	Chromium	ug/L	1.8	10	1.4	NA
POC #2	5/7/2023	Chromium	ug/L	<1.4	10	1.4	NA
POC #2	8/3/2023	Chromium	ug/L	<1.4	10	1.4	NA
POC #2	12/10/2023	Chromium	ug/L	<1.4	10	1.4	NA
POC #2	3/16/2021	Field pH	s.u.	7.16			no

APPENDIX A
Groundwater Monitoring Results for POC #1, POC #2, POC #3, and POC #4
EFRI - Pinyon Plain Mine

Well	Date	Parameter	Units	Result	PQL	MDL	Extreme Outlier?
POC #2	5/10/2021	Field pH	s.u.	7.46			no
POC #2	9/1/2021	Field pH	s.u.	8.02			no
POC #2	12/9/2021	Field pH	s.u.	10.43			yes
POC #2	2/28/2022	Field pH	s.u.	7.18			no
POC #2	5/26/2022	Field pH	s.u.	7.38			no
POC #2	9/17/2022	Field pH	s.u.	7.4			no
POC #2	11/12/2022	Field pH	s.u.	7.54			no
POC #2	2/13/2023	Field pH	s.u.	7.64			no
POC #2	5/6/2023	Field pH	s.u.	7.29			no
POC #2	8/3/2023	Field pH	s.u.	6.94			no
POC #2	12/10/2023	Field pH	s.u.	7.08			no
POC #2	3/16/2021	Fluoride	mg/L	<0.1	0.5	0.1	no
POC #2	5/10/2021	Fluoride	mg/L	<0.1	0.5	0.1	no
POC #2	9/1/2021	Fluoride	mg/L	0.17	0.35	0.15	no
POC #2	12/9/2021	Fluoride	mg/L	<0.15	0.35	0.15	no
POC #2	2/28/2022	Fluoride	mg/L	<0.15	0.35	0.15	no
POC #2	5/26/2022	Fluoride	mg/L	0.17	0.35	0.15	no
POC #2	9/18/2022	Fluoride	mg/L	0.132	0.15	0.064	no
POC #2	11/12/2022	Fluoride	mg/L	0.284	0.15	0.064	no
POC #2	2/13/2023	Fluoride	mg/L	0.121	0.15	0.064	no
POC #2	5/7/2023	Fluoride	mg/L	0.493	0.5	0.198	yes
POC #2	8/3/2023	Fluoride	mg/L	0.12	0.15	0.064	no
POC #2	12/10/2023	Fluoride	mg/L	0.0712	0.15	0.064	no
POC #2	3/16/2021	Gross Alpha minus Rn and U	pCi/L	6.8			no
POC #2	5/10/2021	Gross Alpha minus Rn and U	pCi/L	-110			yes
POC #2	9/1/2021	Gross Alpha minus Rn and U	pCi/L	4.1			no
POC #2	12/9/2021	Gross Alpha minus Rn and U	pCi/L	9.85			no
POC #2	5/26/2022	Gross Alpha minus Rn and U	pCi/L	6.3			no
POC #2	9/17/2022	Gross Alpha minus Rn and U	pCi/L	7.53			no
POC #2	11/12/2022	Gross Alpha minus Rn and U	pCi/L	4.11			no
POC #2	2/13/2023	Gross Alpha minus Rn and U	pCi/L	5.64			no
POC #2	5/7/2023	Gross Alpha minus Rn and U	pCi/L	5.14			no
POC #2	8/3/2023	Gross Alpha minus Rn and U	pCi/L	13.3			no
POC #2	12/10/2023	Gross Alpha minus Rn and U	pCi/L	17.3			no
POC #2	3/16/2021	Lead	ug/L	<0.1	0.5	0.1	NA
POC #2	5/10/2021	Lead	ug/L	<0.1	0.5	0.1	NA
POC #2	9/1/2021	Lead	ug/L	0.38	0.5	0.1	NA
POC #2	12/9/2021	Lead	ug/L	<0.1	0.5	0.1	NA
POC #2	2/28/2022	Lead	ug/L	<0.1	0.5	0.1	NA

APPENDIX A
Groundwater Monitoring Results for POC #1, POC #2, POC #3, and POC #4
 EFRI - Pinyon Plain Mine

Well	Date	Parameter	Units	Result	PQL	MDL	Extreme Outlier?
POC #2	5/26/2022	Lead	ug/L	<0.1	0.5	0.1	NA
POC #2	9/18/2022	Lead	ug/L	<2.99	6	2.99	NA
POC #2	11/12/2022	Lead	ug/L	<2.99	6	2.99	NA
POC #2	2/13/2023	Lead	ug/L	<2.99	6	2.99	NA
POC #2	5/7/2023	Lead	ug/L	3.54	6	2.99	NA
POC #2	8/3/2023	Lead	ug/L	<2.99	6	2.99	NA
POC #2	12/10/2023	Lead	ug/L	<2.99	6	2.99	NA
POC #2	3/16/2021	Mercury	ug/L	<0.2	1	0.2	NA
POC #2	5/10/2021	Mercury	ug/L	<0.2	1	0.2	NA
POC #2	9/1/2021	Mercury	ug/L	<0.2	1	0.2	NA
POC #2	12/9/2021	Mercury	ug/L	<0.2	1	0.2	NA
POC #2	2/28/2022	Mercury	ug/L	<0.2	1	0.2	NA
POC #2	5/26/2022	Mercury	ug/L	<0.2	1	0.2	NA
POC #2	9/18/2022	Mercury	ug/L	<0.1	0.2	0.1	NA
POC #2	11/12/2022	Mercury	ug/L	<0.1	0.2	0.1	NA
POC #2	2/13/2023	Mercury	ug/L	<0.1	0.2	0.1	NA
POC #2	5/7/2023	Mercury	ug/L	<0.1	0.2	0.1	NA
POC #2	8/3/2023	Mercury	ug/L	<0.1	0.2	0.1	NA
POC #2	12/10/2023	Mercury	ug/L	<0.1	0.2	0.1	NA
POC #2	3/16/2021	Nickel	ug/L	23.8	40	8	no
POC #2	5/10/2021	Nickel	ug/L	25.6	40	8	no
POC #2	9/1/2021	Nickel	ug/L	17.4	40	8	no
POC #2	12/9/2021	Nickel	ug/L	15.9	40	8	no
POC #2	2/28/2022	Nickel	ug/L	19.3	40	8	no
POC #2	5/26/2022	Nickel	ug/L	16.8	40	8	no
POC #2	9/18/2022	Nickel	ug/L	15.6	10	1.61	no
POC #2	11/12/2022	Nickel	ug/L	17.7	10	1.61	no
POC #2	2/13/2023	Nickel	ug/L	16.4	10	1.61	no
POC #2	5/7/2023	Nickel	ug/L	207	10	1.61	yes
POC #2	8/3/2023	Nickel	ug/L	19	10	1.61	no
POC #2	12/10/2023	Nickel	ug/L	18	10	1.61	no
POC #2	3/16/2021	Nitrate + Nitrite as N	mg/L	0.02	0.1	0.02	NA
POC #2	5/10/2021	Nitrate + Nitrite as N	mg/L	0.02	0.1	0.02	NA
POC #2	9/1/2021	Nitrate + Nitrite as N	mg/L	<0.02	0.1	0.02	NA
POC #2	12/9/2021	Nitrate + Nitrite as N	mg/L	<0.02	0.1	0.02	NA
POC #2	2/28/2022	Nitrate + Nitrite as N	mg/L	<0.02	0.1	0.02	NA
POC #2	5/26/2022	Nitrate + Nitrite as N	mg/L	<0.02	0.1	0.02	NA
POC #2	9/18/2022	Nitrate + Nitrite as N	mg/L	<0.05	0.1	0.05	NA
POC #2	9/18/2022	Nitrate + Nitrite as N	mg/L	<0.05	0.1	0.05	NA

APPENDIX A
Groundwater Monitoring Results for POC #1, POC #2, POC #3, and POC #4
EFRI - Pinyon Plain Mine

Well	Date	Parameter	Units	Result	PQL	MDL	Extreme Outlier?
POC #2	11/12/2022	Nitrate + Nitrite as N	mg/L	<0.05	0.1	0.05	NA
POC #2	2/13/2023	Nitrate + Nitrite as N	mg/L	<0.05	0.1	0.05	NA
POC #2	5/7/2023	Nitrate + Nitrite as N	mg/L	<0.05	0.1	0.05	NA
POC #2	8/3/2023	Nitrate + Nitrite as N	mg/L	<0.05	0.1	0.05	NA
POC #2	12/10/2023	Nitrate + Nitrite as N	mg/L	<0.05	0.1	0.05	NA
POC #2	3/16/2021	Radium-226+228	pCi/L	6.1			yes
POC #2	5/10/2021	Radium-226+228	pCi/L	2.68			no
POC #2	9/1/2021	Radium-226+228	pCi/L	3.44			no
POC #2	12/9/2021	Radium-226+228	pCi/L	2.466			no
POC #2	2/28/2022	Radium-226+228	pCi/L	2.787			no
POC #2	5/26/2022	Radium-226+228	pCi/L	1.372			no
POC #2	9/17/2022	Radium-226+228	pCi/L	2.479			no
POC #2	11/12/2022	Radium-226+228	pCi/L	2.578			no
POC #2	2/13/2023	Radium-226+228	pCi/L	2.641			no
POC #2	5/7/2023	Radium-226+228	pCi/L	2.905			no
POC #2	8/3/2023	Radium-226+228	pCi/L	3.701			no
POC #2	12/10/2023	Radium-226+228	pCi/L	4.936			no
POC #2	3/16/2021	Selenium	ug/L	<0.1	0.25	0.1	NA
POC #2	5/10/2021	Selenium	ug/L	<0.1	0.25	0.1	NA
POC #2	9/1/2021	Selenium	ug/L	<0.1	0.25	0.1	NA
POC #2	12/9/2021	Selenium	ug/L	<0.1	0.25	0.1	NA
POC #2	2/28/2022	Selenium	ug/L	<0.1	0.25	0.1	NA
POC #2	5/26/2022	Selenium	ug/L	<0.1	0.25	0.1	NA
POC #2	9/18/2022	Selenium	ug/L	<7.35	10	7.35	NA
POC #2	11/12/2022	Selenium	ug/L	<7.35	10	7.35	NA
POC #2	2/13/2023	Selenium	ug/L	<7.35	10	7.35	NA
POC #2	5/7/2023	Selenium	ug/L	<7.35	10	7.35	NA
POC #2	8/3/2023	Selenium	ug/L	<7.35	10	7.35	NA
POC #2	12/10/2023	Selenium	ug/L	<7.35	10	7.35	NA
POC #2	3/16/2021	Thallium	ug/L	1.52	0.5	0.1	no
POC #2	5/10/2021	Thallium	ug/L	1.11	0.5	0.1	no
POC #2	9/1/2021	Thallium	ug/L	0.76	0.5	0.1	no
POC #2	12/9/2021	Thallium	ug/L	0.74	0.5	0.1	no
POC #2	2/28/2022	Thallium	ug/L	0.77	0.5	0.1	no
POC #2	5/26/2022	Thallium	ug/L	0.72	0.5	0.1	no
POC #2	5/7/2023	Thallium	ug/L	0.168	2	0.121	no
POC #2	8/3/2023	Thallium	ug/L	0.784	2	0.121	no
POC #2	12/10/2023	Thallium	ug/L	0.655	2	0.121	no
POC #2	3/16/2021	Uranium	ug/L	9.57	0.5	0.1	no

APPENDIX A
Groundwater Monitoring Results for POC #1, POC #2, POC #3, and POC #4
EFRI - Pinyon Plain Mine

Well	Date	Parameter	Units	Result	PQL	MDL	Extreme Outlier?
POC #2	5/10/2021	Uranium	ug/L	7.65	0.5	0.1	no
POC #2	9/1/2021	Uranium	ug/L	5.72	0.5	0.1	no
POC #2	12/9/2021	Uranium	ug/L	4.76	0.5	0.1	no
POC #2	2/28/2022	Uranium	ug/L	6.17	0.5	0.1	no
POC #2	5/26/2022	Uranium	ug/L	5.46	0.5	0.1	no
POC #2	9/18/2022	Uranium	ug/L	5.04	1	0.0789	no
POC #2	11/12/2022	Uranium	ug/L	5.13	1	0.0789	no
POC #2	2/13/2023	Uranium	ug/L	4.7	1	0.0789	no
POC #2	5/7/2023	Uranium	ug/L	6.98	1	0.0789	no
POC #2	8/3/2023	Uranium	ug/L	4.19	1	0.0789	no
POC #2	12/10/2023	Uranium	ug/L	5.51	1	0.0789	no
POC #3	3/17/2021	Antimony	ug/L	<0.4	2	0.4	NA
POC #3	5/11/2021	Antimony	ug/L	<0.4	2	0.4	NA
POC #3	9/2/2021	Antimony	ug/L	<0.4	2	0.4	NA
POC #3	12/8/2021	Antimony	ug/L	<0.4	2	0.4	NA
POC #3	3/2/2022	Antimony	ug/L	<0.4	2	0.4	NA
POC #3	5/25/2022	Antimony	ug/L	<0.4	2	0.4	NA
POC #3	9/18/2022	Antimony	ug/L	<4.3	10	4.3	NA
POC #3	11/12/2022	Antimony	ug/L	7.92	10	4.3	NA
POC #3	2/12/2023	Antimony	ug/L	<4.3	10	4.3	NA
POC #3	5/7/2023	Antimony	ug/L	<1.03	4	1.03	NA
POC #3	8/2/2023	Antimony	ug/L	<1.03	4	1.03	NA
POC #3	12/12/2023	Antimony	ug/L	<1.03	4	1.03	NA
POC #3	3/17/2021	Arsenic	ug/L	28.8	1	0.2	no
POC #3	5/11/2021	Arsenic	ug/L	32	1	0.2	no
POC #3	9/2/2021	Arsenic	ug/L	6.85	1	0.2	no
POC #3	12/8/2021	Arsenic	ug/L	12	1	0.2	no
POC #3	3/2/2022	Arsenic	ug/L	12.3	1	0.2	no
POC #3	5/25/2022	Arsenic	ug/L	18.2	1	0.2	no
POC #3	9/18/2022	Arsenic	ug/L	22.1	10	4.4	no
POC #3	11/12/2022	Arsenic	ug/L	20	10	4.4	no
POC #3	2/12/2023	Arsenic	ug/L	26.7	10	4.4	no
POC #3	5/7/2023	Arsenic	ug/L	<4.4	10	4.4	no
POC #3	8/2/2023	Arsenic	ug/L	10.5	10	4.4	no
POC #3	12/12/2023	Arsenic	ug/L	22.2	10	4.4	no
POC #3	3/17/2021	Barium	ug/L	9.3	35	7	no
POC #3	5/11/2021	Barium	ug/L	13.3	35	7	no
POC #3	9/2/2021	Barium	ug/L	15.5	35	7	no
POC #3	12/8/2021	Barium	ug/L	7.2	35	7	no

APPENDIX A
Groundwater Monitoring Results for POC #1, POC #2, POC #3, and POC #4
EFRI - Pinyon Plain Mine

Well	Date	Parameter	Units	Result	PQL	MDL	Extreme Outlier?
POC #3	3/2/2022	Barium	ug/L	9	35	7	no
POC #3	5/25/2022	Barium	ug/L	9.4	35	9	no
POC #3	9/18/2022	Barium	ug/L	8.21	5	0.736	no
POC #3	11/12/2022	Barium	ug/L	1.9	5	0.736	no
POC #3	2/12/2023	Barium	ug/L	8.14	5	0.736	no
POC #3	5/7/2023	Barium	ug/L	49.2	5	0.736	yes
POC #3	8/2/2023	Barium	ug/L	6.44	5	0.736	no
POC #3	12/12/2023	Barium	ug/L	8.48	5	0.736	no
POC #3	3/17/2021	Beryllium	ug/L	<0.08	0.25	0.08	NA
POC #3	5/11/2021	Beryllium	ug/L	<0.08	0.25	0.08	NA
POC #3	9/2/2021	Beryllium	ug/L	<0.08	0.25	0.08	NA
POC #3	12/8/2021	Beryllium	ug/L	<0.08	0.25	0.08	NA
POC #3	3/2/2022	Beryllium	ug/L	<0.08	0.25	0.08	NA
POC #3	5/25/2022	Beryllium	ug/L	<0.08	0.25	0.08	NA
POC #3	9/18/2022	Beryllium	ug/L	<0.33	2	0.33	NA
POC #3	11/12/2022	Beryllium	ug/L	<0.33	2	0.33	NA
POC #3	2/12/2023	Beryllium	ug/L	<0.33	2	0.33	NA
POC #3	5/7/2023	Beryllium	ug/L	<0.33	2	0.33	NA
POC #3	8/2/2023	Beryllium	ug/L	<0.33	2	0.33	NA
POC #3	12/12/2023	Beryllium	ug/L	<0.33	2	0.33	NA
POC #3	3/17/2021	Cadmium	ug/L	<0.05	0.25	0.05	NA
POC #3	5/11/2021	Cadmium	ug/L	<0.05	0.25	0.05	NA
POC #3	9/2/2021	Cadmium	ug/L	<0.05	0.25	0.05	NA
POC #3	12/8/2021	Cadmium	ug/L	<0.05	0.25	0.05	NA
POC #3	3/2/2022	Cadmium	ug/L	<0.05	0.25	0.05	NA
POC #3	5/25/2022	Cadmium	ug/L	<0.05	0.25	0.05	NA
POC #3	9/18/2022	Cadmium	ug/L	<0.479	2	0.479	NA
POC #3	11/12/2022	Cadmium	ug/L	0.563	2	0.479	NA
POC #3	2/12/2023	Cadmium	ug/L	<0.479	2	0.479	NA
POC #3	5/7/2023	Cadmium	ug/L	<0.479	2	0.479	NA
POC #3	8/2/2023	Cadmium	ug/L	<0.479	2	0.479	NA
POC #3	12/12/2023	Cadmium	ug/L	<0.479	2	0.479	NA
POC #3	3/17/2021	Chromium	ug/L	<10	50	10	NA
POC #3	5/11/2021	Chromium	ug/L	<20	50	20	NA
POC #3	9/2/2021	Chromium	ug/L	<20	50	20	NA
POC #3	12/8/2021	Chromium	ug/L	<20	50	20	NA
POC #3	3/2/2022	Chromium	ug/L	<20	50	20	NA
POC #3	5/25/2022	Chromium	ug/L	<20	50	20	NA
POC #3	9/18/2022	Chromium	ug/L	<1.4	10	1.4	NA

APPENDIX A
Groundwater Monitoring Results for POC #1, POC #2, POC #3, and POC #4
EFRI - Pinyon Plain Mine

Well	Date	Parameter	Units	Result	PQL	MDL	Extreme Outlier?
POC #3	11/12/2022	Chromium	ug/L	<1.4	10	1.4	NA
POC #3	2/12/2023	Chromium	ug/L	<1.4	10	1.4	NA
POC #3	5/7/2023	Chromium	ug/L	<1.4	10	1.4	NA
POC #3	8/2/2023	Chromium	ug/L	<1.4	10	1.4	NA
POC #3	12/12/2023	Chromium	ug/L	<1.4	10	1.4	NA
POC #3	3/17/2021	Field pH	s.u.	6.47			no
POC #3	5/11/2021	Field pH	s.u.	7.12			no
POC #3	9/2/2021	Field pH	s.u.	7.91			no
POC #3	12/8/2021	Field pH	s.u.	9.01			no
POC #3	12/9/2021	Field pH	s.u.	10.43			yes
POC #3	3/2/2022	Field pH	s.u.	6.71			no
POC #3	5/24/2022	Field pH	s.u.	7.08			no
POC #3	9/19/2022	Field pH	s.u.	7.15			no
POC #3	11/13/2022	Field pH	s.u.	7.38			no
POC #3	2/12/2023	Field pH	s.u.	7.76			no
POC #3	5/7/2023	Field pH	s.u.	7.09			no
POC #3	8/2/2023	Field pH	s.u.	7.61			no
POC #3	12/12/2023	Field pH	s.u.	6.97			no
POC #3	3/17/2021	Fluoride	mg/L	<0.5	2.5	0.5	no
POC #3	5/11/2021	Fluoride	mg/L	<0.5	2.5	0.5	no
POC #3	9/2/2021	Fluoride	mg/L	0.15	0.35	0.15	no
POC #3	12/8/2021	Fluoride	mg/L	<0.15	0.35	0.15	no
POC #3	3/2/2022	Fluoride	mg/L	<0.15	0.35	0.15	no
POC #3	5/25/2022	Fluoride	mg/L	<0.75	1.75	0.75	no
POC #3	9/18/2022	Fluoride	mg/L	0.0694	0.15	0.064	no
POC #3	11/12/2022	Fluoride	mg/L	0.205	0.15	0.064	no
POC #3	2/12/2023	Fluoride	mg/L	0.0799	0.15	0.064	no
POC #3	5/7/2023	Fluoride	mg/L	<0.198	0.5	0.198	no
POC #3	8/2/2023	Fluoride	mg/L	0.0754	0.15	0.064	no
POC #3	12/12/2023	Fluoride	mg/L	<0.064	0.15	0.064	no
POC #3	3/17/2021	Gross Alpha minus Rn and U	pCi/L	-3.4			no
POC #3	5/11/2021	Gross Alpha minus Rn and U	pCi/L	7.9			no
POC #3	9/2/2021	Gross Alpha minus Rn and U	pCi/L	3.7			no
POC #3	12/8/2021	Gross Alpha minus Rn and U	pCi/L	8.21			no
POC #3	5/25/2022	Gross Alpha minus Rn and U	pCi/L	8.03			no
POC #3	9/19/2022	Gross Alpha minus Rn and U	pCi/L	2.08			no
POC #3	11/12/2022	Gross Alpha minus Rn and U	pCi/L	3.49			no
POC #3	2/12/2023	Gross Alpha minus Rn and U	pCi/L	13.4			no
POC #3	5/7/2023	Gross Alpha minus Rn and U	pCi/L	3.19			no

APPENDIX A
Groundwater Monitoring Results for POC #1, POC #2, POC #3, and POC #4
EFRI - Pinyon Plain Mine

Well	Date	Parameter	Units	Result	PQL	MDL	Extreme Outlier?
POC #3	8/2/2023	Gross Alpha minus Rn and U	pCi/L	-4.73			no
POC #3	12/12/2023	Gross Alpha minus Rn and U	pCi/L	17.4			no
POC #3	3/17/2021	Lead	ug/L	<0.1	0.5	0.1	NA
POC #3	5/11/2021	Lead	ug/L	<0.1	0.5	0.1	NA
POC #3	9/2/2021	Lead	ug/L	<0.1	0.5	0.1	NA
POC #3	12/8/2021	Lead	ug/L	<0.1	0.5	0.1	NA
POC #3	3/2/2022	Lead	ug/L	<0.1	0.5	0.1	NA
POC #3	5/25/2022	Lead	ug/L	<0.1	0.5	0.1	NA
POC #3	9/18/2022	Lead	ug/L	<2.99	6	2.99	NA
POC #3	11/12/2022	Lead	ug/L	<2.99	6	2.99	NA
POC #3	2/12/2023	Lead	ug/L	<2.99	6	2.99	NA
POC #3	5/7/2023	Lead	ug/L	<2.99	6	2.99	NA
POC #3	8/2/2023	Lead	ug/L	<2.99	6	2.99	NA
POC #3	12/12/2023	Lead	ug/L	3.1	6	2.99	NA
POC #3	3/17/2021	Mercury	ug/L	<0.2	1	0.2	NA
POC #3	5/11/2021	Mercury	ug/L	<0.2	1	0.2	NA
POC #3	9/2/2021	Mercury	ug/L	<0.2	1	0.2	NA
POC #3	12/8/2021	Mercury	ug/L	<0.2	1	0.2	NA
POC #3	3/2/2022	Mercury	ug/L	<0.2	1	0.2	NA
POC #3	5/25/2022	Mercury	ug/L	<0.2	1	0.2	NA
POC #3	9/18/2022	Mercury	ug/L	<0.1	0.2	0.1	NA
POC #3	11/12/2022	Mercury	ug/L	<0.1	0.2	0.1	NA
POC #3	2/12/2023	Mercury	ug/L	<0.1	0.2	0.1	NA
POC #3	5/7/2023	Mercury	ug/L	<0.1	0.2	0.1	NA
POC #3	8/2/2023	Mercury	ug/L	<0.1	0.2	0.1	NA
POC #3	12/12/2023	Mercury	ug/L	<0.1	0.2	0.1	NA
POC #3	3/17/2021	Nickel	ug/L	357	40	8	no
POC #3	5/11/2021	Nickel	ug/L	300	40	8	no
POC #3	9/2/2021	Nickel	ug/L	208	40	8	no
POC #3	12/8/2021	Nickel	ug/L	193	40	8	no
POC #3	3/2/2022	Nickel	ug/L	195	40	8	no
POC #3	5/25/2022	Nickel	ug/L	169	40	8	no
POC #3	9/18/2022	Nickel	ug/L	154	10	1.61	no
POC #3	11/12/2022	Nickel	ug/L	185	10	1.61	no
POC #3	2/12/2023	Nickel	ug/L	175	10	1.61	no
POC #3	5/7/2023	Nickel	ug/L	16.6	10	1.61	no
POC #3	8/2/2023	Nickel	ug/L	227	10	1.61	no
POC #3	12/12/2023	Nickel	ug/L	238	10	1.61	no
POC #3	3/17/2021	Nitrate + Nitrite as N	mg/L	<0.02	0.1	0.02	NA

APPENDIX A
Groundwater Monitoring Results for POC #1, POC #2, POC #3, and POC #4
 EFRI - Pinyon Plain Mine

Well	Date	Parameter	Units	Result	PQL	MDL	Extreme Outlier?
POC #3	5/11/2021	Nitrate + Nitrite as N	mg/L	<0.02	0.1	0.02	NA
POC #3	9/2/2021	Nitrate + Nitrite as N	mg/L	<0.02	0.1	0.02	NA
POC #3	12/8/2021	Nitrate + Nitrite as N	mg/L	<0.02	0.1	0.02	NA
POC #3	3/2/2022	Nitrate + Nitrite as N	mg/L	<0.02	0.1	0.02	NA
POC #3	5/25/2022	Nitrate + Nitrite as N	mg/L	<0.02	0.1	0.02	NA
POC #3	9/18/2022	Nitrate + Nitrite as N	mg/L	<0.05	0.1	0.05	NA
POC #3	11/12/2022	Nitrate + Nitrite as N	mg/L	<0.05	0.1	0.05	NA
POC #3	2/12/2023	Nitrate + Nitrite as N	mg/L	<0.05	0.1	0.05	NA
POC #3	5/7/2023	Nitrate + Nitrite as N	mg/L	<0.05	0.1	0.05	NA
POC #3	8/2/2023	Nitrate + Nitrite as N	mg/L	<0.05	0.1	0.05	NA
POC #3	12/12/2023	Nitrate + Nitrite as N	mg/L	<0.05	0.1	0.05	NA
POC #3	3/17/2021	Radium-226+228	pCi/L	1.85			no
POC #3	5/11/2021	Radium-226+228	pCi/L	1.19			no
POC #3	9/2/2021	Radium-226+228	pCi/L	3.3			no
POC #3	12/8/2021	Radium-226+228	pCi/L	1.834			no
POC #3	3/2/2022	Radium-226+228	pCi/L	2.8			no
POC #3	5/25/2022	Radium-226+228	pCi/L	1.644			no
POC #3	9/19/2022	Radium-226+228	pCi/L	2.191			no
POC #3	11/12/2022	Radium-226+228	pCi/L	2.157			no
POC #3	2/12/2023	Radium-226+228	pCi/L	1.455			no
POC #3	5/7/2023	Radium-226+228	pCi/L	2.511			no
POC #3	8/2/2023	Radium-226+228	pCi/L	3			no
POC #3	12/12/2023	Radium-226+228	pCi/L	2.265			no
POC #3	3/17/2021	Selenium	ug/L	<0.1	0.25	0.1	NA
POC #3	5/11/2021	Selenium	ug/L	<0.1	0.25	0.1	NA
POC #3	9/2/2021	Selenium	ug/L	<0.1	0.25	0.1	NA
POC #3	12/8/2021	Selenium	ug/L	<0.1	0.25	0.1	NA
POC #3	3/2/2022	Selenium	ug/L	<0.1	0.25	0.1	NA
POC #3	5/25/2022	Selenium	ug/L	<0.1	0.25	0.1	NA
POC #3	9/18/2022	Selenium	ug/L	<7.35	10	7.35	NA
POC #3	11/12/2022	Selenium	ug/L	<7.35	10	7.35	NA
POC #3	2/12/2023	Selenium	ug/L	14.8	10	7.35	NA
POC #3	5/7/2023	Selenium	ug/L	<7.35	10	7.35	NA
POC #3	8/2/2023	Selenium	ug/L	<7.35	10	7.35	NA
POC #3	12/12/2023	Selenium	ug/L	<7.35	10	7.35	NA
POC #3	3/17/2021	Thallium	ug/L	1.14	0.5	0.1	no
POC #3	5/11/2021	Thallium	ug/L	0.74	0.5	0.1	no
POC #3	9/2/2021	Thallium	ug/L	0.33	0.5	0.1	no
POC #3	12/8/2021	Thallium	ug/L	0.3	0.5	0.1	no

APPENDIX A
Groundwater Monitoring Results for POC #1, POC #2, POC #3, and POC #4
EFRI - Pinyon Plain Mine

Well	Date	Parameter	Units	Result	PQL	MDL	Extreme Outlier?
POC #3	3/2/2022	Thallium	ug/L	0.38	0.5	0.1	no
POC #3	5/25/2022	Thallium	ug/L	0.26	0.5	0.1	no
POC #3	5/7/2023	Thallium	ug/L	0.677	2	0.121	no
POC #3	8/2/2023	Thallium	ug/L	0.246	2	0.121	no
POC #3	12/12/2023	Thallium	ug/L	<0.121	2	0.121	no
POC #3	3/17/2021	Uranium	ug/L	9.01	0.5	0.1	no
POC #3	5/11/2021	Uranium	ug/L	6.82	0.5	0.1	no
POC #3	9/2/2021	Uranium	ug/L	4.1	0.5	0.1	no
POC #3	12/8/2021	Uranium	ug/L	5.22	0.5	0.1	no
POC #3	3/2/2022	Uranium	ug/L	5.4	0.5	0.1	no
POC #3	5/25/2022	Uranium	ug/L	4.9	0.5	0.1	no
POC #3	9/18/2022	Uranium	ug/L	5.38	1	0.0789	no
POC #3	11/12/2022	Uranium	ug/L	4.96	1	0.0789	no
POC #3	2/12/2023	Uranium	ug/L	4.69	1	0.0789	no
POC #3	5/7/2023	Uranium	ug/L	4.72	1	0.0789	no
POC #3	8/2/2023	Uranium	ug/L	7.77	1	0.0789	no
POC #3	12/12/2023	Uranium	ug/L	13.6	1	0.0789	no
POC #4	9/10/1987	Antimony	ug/L	<10			NA
POC #4	12/1/1987	Antimony	ug/L	<100			NA
POC #4	6/28/1988	Antimony	ug/L	<100			NA
POC #4	9/11/2018	Antimony	ug/L	<0.4	2	0.4	NA
POC #4	3/17/2021	Antimony	ug/L	<0.4	2	0.4	NA
POC #4	5/25/2021	Antimony	ug/L	<0.4	2	0.4	NA
POC #4	8/5/2021	Antimony	ug/L	<0.4	2	0.4	NA
POC #4	12/8/2021	Antimony	ug/L	<0.4	2	0.4	NA
POC #4	3/1/2022	Antimony	ug/L	<0.4	2	0.4	NA
POC #4	5/25/2022	Antimony	ug/L	<0.4	2	0.4	NA
POC #4	9/27/2022	Antimony	ug/L	<4.3	10	4.3	NA
POC #4	11/16/2022	Antimony	ug/L	<1.03	4	1.03	NA
POC #4	3/27/2023	Antimony	ug/L	<1.03	4	1.03	NA
POC #4	5/7/2023	Antimony	ug/L	<1.03	4	1.03	NA
POC #4	8/2/2023	Antimony	ug/L	<1.03	4	1.03	NA
POC #4	12/12/2023	Antimony	ug/L	<1.03	4	1.03	NA
POC #4	4/30/1987	Barium	ug/L	300			yes
POC #4	9/10/1987	Barium	ug/L	180			NA
POC #4	12/1/1987	Barium	ug/L	<100			no
POC #4	6/28/1988	Barium	ug/L	<100			no
POC #4	9/20/1988	Barium	ug/L	90			no
POC #4	12/27/1988	Barium	ug/L	120			no

APPENDIX A
Groundwater Monitoring Results for POC #1, POC #2, POC #3, and POC #4
EFRI - Pinyon Plain Mine

Well	Date	Parameter	Units	Result	PQL	MDL	Extreme Outlier?
POC #4	4/17/1989	Barium	ug/L	9			no
POC #4	5/30/1989	Barium	ug/L	<100			no
POC #4	9/4/1989	Barium	ug/L	100			no
POC #4	12/30/1989	Barium	ug/L	70			no
POC #4	3/30/1990	Barium	ug/L	150			no
POC #4	6/29/1990	Barium	ug/L	90			no
POC #4	9/19/1990	Barium	ug/L	90			no
POC #4	6/11/1991	Barium	ug/L	<100			no
POC #4	11/16/1992	Barium	ug/L	<100			no
POC #4	9/11/2018	Barium	ug/L	83	20	3	no
POC #4	3/17/2021	Barium	ug/L	84.5	35	7	no
POC #4	5/25/2021	Barium	ug/L	87.9	35	7	no
POC #4	8/5/2021	Barium	ug/L	86.5	35	7	no
POC #4	12/8/2021	Barium	ug/L	88.8	35	7	no
POC #4	3/1/2022	Barium	ug/L	87.3	35	7	no
POC #4	5/25/2022	Barium	ug/L	85.5	35	9	no
POC #4	9/27/2022	Barium	ug/L	81.8	5	0.736	no
POC #4	11/16/2022	Barium	ug/L	87	5	0.736	no
POC #4	3/27/2023	Barium	ug/L	79.1	5	0.736	no
POC #4	5/7/2023	Barium	ug/L	84.3	5	0.736	no
POC #4	8/2/2023	Barium	ug/L	78.5	5	0.736	no
POC #4	12/12/2023	Barium	ug/L	82	5	0.736	no
POC #4	9/10/1987	Beryllium	ug/L	<10			NA
POC #4	12/1/1987	Beryllium	ug/L	<10			NA
POC #4	6/28/1988	Beryllium	ug/L	<10			NA
POC #4	9/11/2018	Beryllium	ug/L	<0.05	0.3	0.05	NA
POC #4	3/17/2021	Beryllium	ug/L	<0.08	0.25	0.08	NA
POC #4	5/25/2021	Beryllium	ug/L	<0.08	0.25	0.08	NA
POC #4	8/5/2021	Beryllium	ug/L	<0.08	0.25	0.08	NA
POC #4	12/8/2021	Beryllium	ug/L	<0.08	0.25	0.08	NA
POC #4	3/1/2022	Beryllium	ug/L	<0.08	0.25	0.08	NA
POC #4	5/25/2022	Beryllium	ug/L	<0.08	0.25	0.08	NA
POC #4	9/27/2022	Beryllium	ug/L	<0.33	2	0.33	NA
POC #4	11/16/2022	Beryllium	ug/L	<0.33	2	0.33	NA
POC #4	3/27/2023	Beryllium	ug/L	<0.33	2	0.33	NA
POC #4	5/7/2023	Beryllium	ug/L	<0.33	2	0.33	NA
POC #4	8/2/2023	Beryllium	ug/L	<0.33	2	0.33	NA
POC #4	12/12/2023	Beryllium	ug/L	<0.33	2	0.33	NA
POC #4	4/30/1987	Cadmium	ug/L	<1			NA

APPENDIX A
Groundwater Monitoring Results for POC #1, POC #2, POC #3, and POC #4
EFRI - Pinyon Plain Mine

Well	Date	Parameter	Units	Result	PQL	MDL	Extreme Outlier?
POC #4	9/10/1987	Cadmium	ug/L	<5			NA
POC #4	12/1/1987	Cadmium	ug/L	<5			NA
POC #4	6/28/1988	Cadmium	ug/L	<5			NA
POC #4	9/20/1988	Cadmium	ug/L	<5			NA
POC #4	12/27/1988	Cadmium	ug/L	<5			NA
POC #4	4/17/1989	Cadmium	ug/L	<5			NA
POC #4	5/30/1989	Cadmium	ug/L	<5			NA
POC #4	9/4/1989	Cadmium	ug/L	<5			NA
POC #4	12/30/1989	Cadmium	ug/L	<5			NA
POC #4	3/30/1990	Cadmium	ug/L	<5			NA
POC #4	6/29/1990	Cadmium	ug/L	<5			NA
POC #4	9/19/1990	Cadmium	ug/L	<5			NA
POC #4	6/11/1991	Cadmium	ug/L	<5			NA
POC #4	11/16/1992	Cadmium	ug/L	<5			NA
POC #4	9/11/2018	Cadmium	ug/L	<0.1	0.5	0.1	NA
POC #4	9/11/2019	Cadmium	ug/L	<0.05	0.3	0.05	NA
POC #4	3/17/2021	Cadmium	ug/L	<0.05	0.25	0.05	NA
POC #4	5/25/2021	Cadmium	ug/L	<0.05	0.25	0.05	NA
POC #4	8/5/2021	Cadmium	ug/L	<0.05	0.25	0.05	NA
POC #4	12/8/2021	Cadmium	ug/L	<0.05	0.25	0.05	NA
POC #4	3/1/2022	Cadmium	ug/L	<0.05	0.25	0.05	NA
POC #4	5/25/2022	Cadmium	ug/L	<0.05	0.25	0.05	NA
POC #4	9/27/2022	Cadmium	ug/L	<0.479	2	0.479	NA
POC #4	11/16/2022	Cadmium	ug/L	<0.479	2	0.479	NA
POC #4	3/27/2023	Cadmium	ug/L	<0.479	2	0.479	NA
POC #4	5/7/2023	Cadmium	ug/L	<0.479	2	0.479	NA
POC #4	8/2/2023	Cadmium	ug/L	<0.479	2	0.479	NA
POC #4	12/12/2023	Cadmium	ug/L	<0.479	2	0.479	NA
POC #4	4/30/1987	Chromium	ug/L	<30			NA
POC #4	9/10/1987	Chromium	ug/L	<10			NA
POC #4	12/1/1987	Chromium	ug/L	<10			NA
POC #4	6/28/1988	Chromium	ug/L	<10			NA
POC #4	9/20/1988	Chromium	ug/L	20			NA
POC #4	12/27/1988	Chromium	ug/L	<10			NA
POC #4	4/17/1989	Chromium	ug/L	<10			NA
POC #4	5/30/1989	Chromium	ug/L	<10			NA
POC #4	9/4/1989	Chromium	ug/L	<10			NA
POC #4	12/30/1989	Chromium	ug/L	<10			NA
POC #4	3/30/1990	Chromium	ug/L	<10			NA

APPENDIX A
Groundwater Monitoring Results for POC #1, POC #2, POC #3, and POC #4
EFRI - Pinyon Plain Mine

Well	Date	Parameter	Units	Result	PQL	MDL	Extreme Outlier?
POC #4	6/29/1990	Chromium	ug/L	<10			NA
POC #4	9/19/1990	Chromium	ug/L	<10			NA
POC #4	6/11/1991	Chromium	ug/L	<10			NA
POC #4	11/16/1992	Chromium	ug/L	<10			NA
POC #4	9/11/2018	Chromium	ug/L	<10	50	10	NA
POC #4	9/11/2019	Chromium	ug/L	<0.5	2	0.5	NA
POC #4	3/17/2021	Chromium	ug/L	<10	50	10	NA
POC #4	5/25/2021	Chromium	ug/L	<20	50	20	NA
POC #4	8/5/2021	Chromium	ug/L	<20	50	20	NA
POC #4	12/8/2021	Chromium	ug/L	<20	50	20	NA
POC #4	3/1/2022	Chromium	ug/L	<20	50	20	NA
POC #4	5/25/2022	Chromium	ug/L	<20	50	20	NA
POC #4	9/27/2022	Chromium	ug/L	<1.4	10	1.4	NA
POC #4	11/16/2022	Chromium	ug/L	<1.4	10	1.4	NA
POC #4	3/27/2023	Chromium	ug/L	<1.4	10	1.4	NA
POC #4	5/7/2023	Chromium	ug/L	<1.4	10	1.4	NA
POC #4	8/2/2023	Chromium	ug/L	<1.4	10	1.4	NA
POC #4	12/12/2023	Chromium	ug/L	<1.4	10	1.4	NA
POC #4	3/14/2017	Field pH	s.u.	5.77			yes
POC #4	4/11/2017	Field pH	s.u.	7.97			no
POC #4	5/18/2017	Field pH	s.u.	7.44			no
POC #4	9/14/2017	Field pH	s.u.	7.94			no
POC #4	10/17/2017	Field pH	s.u.	6.91			no
POC #4	9/11/2018	Field pH	s.u.	7.35			no
POC #4	9/11/2019	Field pH	s.u.	7.35			no
POC #4	6/9/2020	Field pH	s.u.	7.65			no
POC #4	3/17/2021	Field pH	s.u.	7.26			no
POC #4	5/25/2021	Field pH	s.u.	7.35			no
POC #4	12/8/2021	Field pH	s.u.	9.4			yes
POC #4	3/1/2022	Field pH	s.u.	7.29			no
POC #4	5/25/2022	Field pH	s.u.	7.42			no
POC #4	9/27/2022	Field pH	s.u.	7.44			no
POC #4	11/16/2022	Field pH	s.u.	7.49			no
POC #4	3/27/2023	Field pH	s.u.	7.76			no
POC #4	5/7/2023	Field pH	s.u.	7.43			no
POC #4	8/2/2023	Field pH	s.u.	7			no
POC #4	12/12/2023	Field pH	s.u.	7.34			no
POC #4	4/30/1987	Fluoride	mg/L	0.29			no
POC #4	9/10/1987	Fluoride	mg/L	0.26			no

APPENDIX A
Groundwater Monitoring Results for POC #1, POC #2, POC #3, and POC #4
EFRI - Pinyon Plain Mine

Well	Date	Parameter	Units	Result	PQL	MDL	Extreme Outlier?
POC #4	12/1/1987	Fluoride	mg/L	0.32			no
POC #4	4/29/1988	Fluoride	mg/L	0.36			no
POC #4	6/28/1988	Fluoride	mg/L	0.3			no
POC #4	9/20/1988	Fluoride	mg/L	0.35			no
POC #4	12/27/1988	Fluoride	mg/L	0.34			no
POC #4	4/17/1989	Fluoride	mg/L	0.33			no
POC #4	5/30/1989	Fluoride	mg/L	0.34			no
POC #4	9/4/1989	Fluoride	mg/L	0.3			no
POC #4	12/30/1989	Fluoride	mg/L	0.3			no
POC #4	3/30/1990	Fluoride	mg/L	0.3			no
POC #4	6/29/1990	Fluoride	mg/L	0.3			no
POC #4	9/19/1990	Fluoride	mg/L	0.3			no
POC #4	12/26/1990	Fluoride	mg/L	0.5			no
POC #4	3/22/1991	Fluoride	mg/L	0.5			no
POC #4	6/11/1991	Fluoride	mg/L	0.4			no
POC #4	8/20/1991	Fluoride	mg/L	<0.1			no
POC #4	12/24/1991	Fluoride	mg/L	0.2			no
POC #4	1/15/1992	Fluoride	mg/L	0.1			no
POC #4	5/1/1992	Fluoride	mg/L	0.4			no
POC #4	7/16/1992	Fluoride	mg/L	0.3			no
POC #4	11/16/1992	Fluoride	mg/L	0.3			no
POC #4	1/21/1993	Fluoride	mg/L	0.3			no
POC #4	5/14/1993	Fluoride	mg/L	0.2			no
POC #4	3/30/1995	Fluoride	mg/L	0.4	100		no
POC #4	5/11/1995	Fluoride	mg/L	0.4	100		no
POC #4	9/25/1995	Fluoride	mg/L	0.4	100		no
POC #4	10/27/1995	Fluoride	mg/L	0.3	100		no
POC #4	3/27/1996	Fluoride	mg/L	0.4	100		no
POC #4	5/29/1996	Fluoride	mg/L	0.3	100		no
POC #4	9/23/1996	Fluoride	mg/L	0.4	100		no
POC #4	12/1/1996	Fluoride	mg/L	0.3	100		no
POC #4	2/3/1997	Fluoride	mg/L	0.4	100		no
POC #4	6/16/1997	Fluoride	mg/L	0.3	100		no
POC #4	9/22/1997	Fluoride	mg/L	0.3	100		no
POC #4	12/10/1997	Fluoride	mg/L	0.3	100		no
POC #4	3/17/1998	Fluoride	mg/L	0.3	500		no
POC #4	6/22/1998	Fluoride	mg/L	0.5	500		no
POC #4	9/28/1998	Fluoride	mg/L	0.4	500		no
POC #4	11/12/1998	Fluoride	mg/L	0.3	500		no

APPENDIX A
Groundwater Monitoring Results for POC #1, POC #2, POC #3, and POC #4
EFRI - Pinyon Plain Mine

Well	Date	Parameter	Units	Result	PQL	MDL	Extreme Outlier?
POC #4	3/14/2017	Fluoride	mg/L	0.29	250	50	no
POC #4	4/11/2017	Fluoride	mg/L	0.3	250	50	no
POC #4	5/18/2017	Fluoride	mg/L	0.33	250	50	no
POC #4	9/14/2017	Fluoride	mg/L	0.31	250	50	no
POC #4	10/17/2017	Fluoride	mg/L	0.28	250	50	no
POC #4	9/11/2018	Fluoride	mg/L	0.34	300	50	no
POC #4	9/11/2019	Fluoride	mg/L	0.32	250	50	no
POC #4	6/9/2020	Fluoride	mg/L	0.32	250	50	no
POC #4	3/17/2021	Fluoride	mg/L	0.265	250	50	no
POC #4	5/25/2021	Fluoride	mg/L	0.248	250	50	no
POC #4	8/5/2021	Fluoride	mg/L	0.68	350	150	yes
POC #4	12/8/2021	Fluoride	mg/L	0.29	350	150	no
POC #4	3/1/2022	Fluoride	mg/L	0.31	350	150	no
POC #4	5/25/2022	Fluoride	mg/L	0.34	350	150	no
POC #4	9/27/2022	Fluoride	mg/L	0.29	150	64	no
POC #4	11/16/2022	Fluoride	mg/L	0.317	150	64	no
POC #4	3/27/2023	Fluoride	mg/L	0.253	150	64	no
POC #4	5/7/2023	Fluoride	mg/L	0.425	500	198	no
POC #4	8/2/2023	Fluoride	mg/L	0.272	150	64	no
POC #4	12/12/2023	Fluoride	mg/L	0.171	150	64	no
POC #4	9/10/1987	Gross Alpha minus Rn and U	pCi/L	10.7			no
POC #4	12/1/1987	Gross Alpha minus Rn and U	pCi/L	-3.25			no
POC #4	4/29/1988	Gross Alpha minus Rn and U	pCi/L	4.2			no
POC #4	6/28/1988	Gross Alpha minus Rn and U	pCi/L	8.5			no
POC #4	9/20/1988	Gross Alpha minus Rn and U	pCi/L	2.1			no
POC #4	12/27/1988	Gross Alpha minus Rn and U	pCi/L	4.6			no
POC #4	4/17/1989	Gross Alpha minus Rn and U	pCi/L	7.5			no
POC #4	5/30/1989	Gross Alpha minus Rn and U	pCi/L	2.2			no
POC #4	9/4/1989	Gross Alpha minus Rn and U	pCi/L	6.9			no
POC #4	12/30/1989	Gross Alpha minus Rn and U	pCi/L	7			no
POC #4	3/30/1990	Gross Alpha minus Rn and U	pCi/L	10.2			no
POC #4	6/29/1990	Gross Alpha minus Rn and U	pCi/L	17.5			no
POC #4	9/19/1990	Gross Alpha minus Rn and U	pCi/L	10.21			no
POC #4	12/26/1990	Gross Alpha minus Rn and U	pCi/L	5.6			no
POC #4	3/22/1991	Gross Alpha minus Rn and U	pCi/L	6.1			no
POC #4	6/11/1991	Gross Alpha minus Rn and U	pCi/L	7.2			no
POC #4	8/20/1991	Gross Alpha minus Rn and U	pCi/L	-6.1			no
POC #4	12/24/1991	Gross Alpha minus Rn and U	pCi/L	4			no
POC #4	1/15/1992	Gross Alpha minus Rn and U	pCi/L	1.6			no

APPENDIX A
Groundwater Monitoring Results for POC #1, POC #2, POC #3, and POC #4
EFRI - Pinyon Plain Mine

Well	Date	Parameter	Units	Result	PQL	MDL	Extreme Outlier?
POC #4	5/1/1992	Gross Alpha minus Rn and U	pCi/L	5.8			no
POC #4	7/16/1992	Gross Alpha minus Rn and U	pCi/L	3.8			no
POC #4	11/16/1992	Gross Alpha minus Rn and U	pCi/L	6.18			no
POC #4	1/21/1993	Gross Alpha minus Rn and U	pCi/L	38			yes
POC #4	5/14/1993	Gross Alpha minus Rn and U	pCi/L	3.6			no
POC #4	3/30/1995	Gross Alpha minus Rn and U	pCi/L	2.27			no
POC #4	5/11/1995	Gross Alpha minus Rn and U	pCi/L	2.07			no
POC #4	9/25/1995	Gross Alpha minus Rn and U	pCi/L	4.81			no
POC #4	10/27/1995	Gross Alpha minus Rn and U	pCi/L	3.18			no
POC #4	3/27/1996	Gross Alpha minus Rn and U	pCi/L	0.51			no
POC #4	5/29/1996	Gross Alpha minus Rn and U	pCi/L	1.54			no
POC #4	9/23/1996	Gross Alpha minus Rn and U	pCi/L	-0.76			no
POC #4	12/1/1996	Gross Alpha minus Rn and U	pCi/L	-8.37			no
POC #4	2/3/1997	Gross Alpha minus Rn and U	pCi/L	-5.54			no
POC #4	6/16/1997	Gross Alpha minus Rn and U	pCi/L	3.86			no
POC #4	9/22/1997	Gross Alpha minus Rn and U	pCi/L	3.19			no
POC #4	12/10/1997	Gross Alpha minus Rn and U	pCi/L	17.19			no
POC #4	3/17/1998	Gross Alpha minus Rn and U	pCi/L	30.98			yes
POC #4	6/22/1998	Gross Alpha minus Rn and U	pCi/L	1.18			no
POC #4	9/28/1998	Gross Alpha minus Rn and U	pCi/L	1.91			no
POC #4	11/12/1998	Gross Alpha minus Rn and U	pCi/L	8.55			no
POC #4	3/14/2017	Gross Alpha minus Rn and U	pCi/L	6.13			no
POC #4	4/11/2017	Gross Alpha minus Rn and U	pCi/L	9.76			no
POC #4	5/18/2017	Gross Alpha minus Rn and U	pCi/L	7.76			no
POC #4	9/14/2017	Gross Alpha minus Rn and U	pCi/L	8			no
POC #4	10/17/2017	Gross Alpha minus Rn and U	pCi/L	9.22			no
POC #4	6/9/2020	Gross Alpha minus Rn and U	pCi/L	9.86			no
POC #4	3/17/2021	Gross Alpha minus Rn and U	pCi/L	3			no
POC #4	5/25/2021	Gross Alpha minus Rn and U	pCi/L	-5.3			no
POC #4	8/5/2021	Gross Alpha minus Rn and U	pCi/L	8.6			no
POC #4	12/8/2021	Gross Alpha minus Rn and U	pCi/L	9.29			no
POC #4	5/25/2022	Gross Alpha minus Rn and U	pCi/L	4.19			no
POC #4	9/27/2022	Gross Alpha minus Rn and U	pCi/L	3.39			no
POC #4	11/16/2022	Gross Alpha minus Rn and U	pCi/L	6.81			no
POC #4	3/27/2023	Gross Alpha minus Rn and U	pCi/L	3.27			no
POC #4	5/7/2023	Gross Alpha minus Rn and U	pCi/L	4.98			no
POC #4	8/2/2023	Gross Alpha minus Rn and U	pCi/L	8.14			no
POC #4	12/12/2023	Gross Alpha minus Rn and U	pCi/L	6.06			no
POC #4	4/30/1987	Lead	ug/L	<1			NA

APPENDIX A
Groundwater Monitoring Results for POC #1, POC #2, POC #3, and POC #4
EFRI - Pinyon Plain Mine

Well	Date	Parameter	Units	Result	PQL	MDL	Extreme Outlier?
POC #4	9/10/1987	Lead	ug/L	20			NA
POC #4	12/1/1987	Lead	ug/L	<20			NA
POC #4	6/28/1988	Lead	ug/L	<10			NA
POC #4	9/20/1988	Lead	ug/L	<20			NA
POC #4	12/27/1988	Lead	ug/L	<20			NA
POC #4	4/17/1989	Lead	ug/L	<20			NA
POC #4	5/30/1989	Lead	ug/L	<20			NA
POC #4	9/4/1989	Lead	ug/L	<20			NA
POC #4	12/30/1989	Lead	ug/L	<20			NA
POC #4	3/30/1990	Lead	ug/L	<20			NA
POC #4	6/29/1990	Lead	ug/L	<20			NA
POC #4	9/19/1990	Lead	ug/L	<20			NA
POC #4	6/11/1991	Lead	ug/L	<5			NA
POC #4	11/16/1992	Lead	ug/L	<5			NA
POC #4	5/18/2017	Lead	ug/L	<0.1	0.5	0.1	NA
POC #4	9/14/2017	Lead	ug/L	0.2	0.5	0.1	NA
POC #4	10/17/2017	Lead	ug/L	0.1	0.5	0.1	NA
POC #4	9/11/2018	Lead	ug/L	2.3	0.5	0.1	NA
POC #4	9/11/2019	Lead	ug/L	0.2	0.5	0.1	NA
POC #4	6/9/2020	Lead	ug/L	0.1	0.5	0.1	NA
POC #4	3/17/2021	Lead	ug/L	0.3	0.5	0.1	NA
POC #4	5/25/2021	Lead	ug/L	0.49	0.5	0.1	NA
POC #4	8/5/2021	Lead	ug/L	0.26	0.5	0.1	NA
POC #4	12/8/2021	Lead	ug/L	<0.1	0.5	0.1	NA
POC #4	3/1/2022	Lead	ug/L	0.38	0.5	0.1	NA
POC #4	5/25/2022	Lead	ug/L	0.21	0.5	0.1	NA
POC #4	9/27/2022	Lead	ug/L	<2.99	6	2.99	NA
POC #4	11/16/2022	Lead	ug/L	<2.99	6	2.99	NA
POC #4	3/27/2023	Lead	ug/L	<2.99	6	2.99	NA
POC #4	5/7/2023	Lead	ug/L	<2.99	6	2.99	NA
POC #4	8/2/2023	Lead	ug/L	<2.99	6	2.99	NA
POC #4	12/12/2023	Lead	ug/L	<2.99	6	2.99	NA
POC #4	4/30/1987	Mercury	ug/L	<0.2			NA
POC #4	9/10/1987	Mercury	ug/L	<0.2			NA
POC #4	12/1/1987	Mercury	ug/L	<0.2			NA
POC #4	6/28/1988	Mercury	ug/L	0.9			NA
POC #4	9/20/1988	Mercury	ug/L	0.5			NA
POC #4	12/27/1988	Mercury	ug/L	0.4			NA
POC #4	4/17/1989	Mercury	ug/L	<0.2			NA

APPENDIX A
Groundwater Monitoring Results for POC #1, POC #2, POC #3, and POC #4
EFRI - Pinyon Plain Mine

Well	Date	Parameter	Units	Result	PQL	MDL	Extreme Outlier?
POC #4	5/30/1989	Mercury	ug/L	0.4			NA
POC #4	9/4/1989	Mercury	ug/L	0.2			NA
POC #4	12/30/1989	Mercury	ug/L	<0.2			NA
POC #4	3/30/1990	Mercury	ug/L	<0.2			NA
POC #4	6/29/1990	Mercury	ug/L	<0.2			NA
POC #4	9/19/1990	Mercury	ug/L	0.3			NA
POC #4	6/11/1991	Mercury	ug/L	<0.2			NA
POC #4	11/16/1992	Mercury	ug/L	<0.2			NA
POC #4	9/11/2018	Mercury	ug/L	<0.2	1	0.2	NA
POC #4	3/17/2021	Mercury	ug/L	<0.2	1	0.2	NA
POC #4	5/25/2021	Mercury	ug/L	<0.2	1	0.2	NA
POC #4	8/5/2021	Mercury	ug/L	<0.2	1	0.2	NA
POC #4	12/8/2021	Mercury	ug/L	<0.2	1	0.2	NA
POC #4	3/1/2022	Mercury	ug/L	<0.2	1	0.2	NA
POC #4	5/25/2022	Mercury	ug/L	<0.2	1	0.2	NA
POC #4	9/27/2022	Mercury	ug/L	<0.1	0.2	0.1	NA
POC #4	11/16/2022	Mercury	ug/L	<0.1	0.2	0.1	NA
POC #4	3/27/2023	Mercury	ug/L	<0.1	0.2	0.1	NA
POC #4	5/7/2023	Mercury	ug/L	<0.1	0.2	0.1	NA
POC #4	8/2/2023	Mercury	ug/L	<0.1	0.2	0.1	NA
POC #4	12/12/2023	Mercury	ug/L	<0.1	0.2	0.1	NA
POC #4	9/10/1987	Nickel	ug/L	<50			no
POC #4	12/1/1987	Nickel	ug/L	<50			no
POC #4	6/28/1988	Nickel	ug/L	<50			no
POC #4	9/11/2018	Nickel	ug/L	11	40	8	no
POC #4	9/11/2019	Nickel	ug/L	<8	40	8	no
POC #4	3/17/2021	Nickel	ug/L	8.3	40	8	no
POC #4	5/25/2021	Nickel	ug/L	9.7	40	8	no
POC #4	8/5/2021	Nickel	ug/L	12.8	40	8	no
POC #4	12/8/2021	Nickel	ug/L	11.2	40	8	no
POC #4	3/1/2022	Nickel	ug/L	14.9	40	8	no
POC #4	5/25/2022	Nickel	ug/L	10	40	8	no
POC #4	9/27/2022	Nickel	ug/L	7.96	10	1.61	no
POC #4	11/16/2022	Nickel	ug/L	10.4	10	1.61	no
POC #4	3/27/2023	Nickel	ug/L	29.1	10	1.61	no
POC #4	5/7/2023	Nickel	ug/L	23.9	10	1.61	no
POC #4	8/2/2023	Nickel	ug/L	21.2	10	1.61	no
POC #4	12/12/2023	Nickel	ug/L	13	10	1.61	no
POC #4	12/10/1997	Nitrate + Nitrite as N	mg/L	0.1	100		no

APPENDIX A
Groundwater Monitoring Results for POC #1, POC #2, POC #3, and POC #4
EFRI - Pinyon Plain Mine

Well	Date	Parameter	Units	Result	PQL	MDL	Extreme Outlier?
POC #4	3/17/1998	Nitrate + Nitrite as N	mg/L	0.21	100		no
POC #4	6/22/1998	Nitrate + Nitrite as N	mg/L	0.14	100		no
POC #4	9/28/1998	Nitrate + Nitrite as N	mg/L	0.15	100		no
POC #4	11/12/1998	Nitrate + Nitrite as N	mg/L	0.16	100		no
POC #4	3/14/2017	Nitrate + Nitrite as N	mg/L	<0.02	100	20	no
POC #4	4/11/2017	Nitrate + Nitrite as N	mg/L	<0.02	100	20	no
POC #4	5/18/2017	Nitrate + Nitrite as N	mg/L	0.04	100	20	no
POC #4	9/14/2017	Nitrate + Nitrite as N	mg/L	0.13	100	20	no
POC #4	10/17/2017	Nitrate + Nitrite as N	mg/L	0.2	100	20	no
POC #4	9/11/2018	Nitrate + Nitrite as N	mg/L	0.13	100	20	no
POC #4	9/11/2019	Nitrate + Nitrite as N	mg/L	0.13	100	20	no
POC #4	6/9/2020	Nitrate + Nitrite as N	mg/L	0.11	100	20	no
POC #4	3/17/2021	Nitrate + Nitrite as N	mg/L	0.101	100	20	no
POC #4	5/25/2021	Nitrate + Nitrite as N	mg/L	0.092	100	20	no
POC #4	8/5/2021	Nitrate + Nitrite as N	mg/L	0.094	100	20	no
POC #4	12/8/2021	Nitrate + Nitrite as N	mg/L	0.091	100	20	no
POC #4	3/1/2022	Nitrate + Nitrite as N	mg/L	0.076	100	20	no
POC #4	5/25/2022	Nitrate + Nitrite as N	mg/L	0.103	100	20	no
POC #4	9/27/2022	Nitrate + Nitrite as N	mg/L	0.0923	100	50	no
POC #4	9/27/2022	Nitrate + Nitrite as N	mg/L	0.0975	100	50	no
POC #4	11/16/2022	Nitrate + Nitrite as N	mg/L	0.0704	100	50	no
POC #4	3/27/2023	Nitrate + Nitrite as N	mg/L	0.0552	100	50	no
POC #4	5/7/2023	Nitrate + Nitrite as N	mg/L	0.113	100	50	no
POC #4	8/2/2023	Nitrate + Nitrite as N	mg/L	0.125	100	50	no
POC #4	12/12/2023	Nitrate + Nitrite as N	mg/L	0.099	100	50	no
POC #4	4/30/1987	Radium-226+228	pCi/L	2.4			no
POC #4	4/29/1988	Radium-226+228	pCi/L	4.3			no
POC #4	3/14/2017	Radium-226+228	pCi/L	4.44			no
POC #4	4/11/2017	Radium-226+228	pCi/L	5.05			no
POC #4	5/18/2017	Radium-226+228	pCi/L	4.47			no
POC #4	9/14/2017	Radium-226+228	pCi/L	4.46			no
POC #4	10/17/2017	Radium-226+228	pCi/L	5.48			no
POC #4	6/9/2020	Radium-226+228	pCi/L	5.76			no
POC #4	3/17/2021	Radium-226+228	pCi/L	7.58			no
POC #4	5/25/2021	Radium-226+228	pCi/L	6.95			no
POC #4	8/5/2021	Radium-226+228	pCi/L	5.25			no
POC #4	12/8/2021	Radium-226+228	pCi/L	6.85			no
POC #4	3/1/2022	Radium-226+228	pCi/L	5.99			no
POC #4	5/25/2022	Radium-226+228	pCi/L	4.028			no

APPENDIX A
Groundwater Monitoring Results for POC #1, POC #2, POC #3, and POC #4
EFRI - Pinyon Plain Mine

Well	Date	Parameter	Units	Result	PQL	MDL	Extreme Outlier?
POC #4	9/27/2022	Radium-226+228	pCi/L	3.866			no
POC #4	11/16/2022	Radium-226+228	pCi/L	4.059			no
POC #4	3/27/2023	Radium-226+228	pCi/L	5.525			no
POC #4	5/7/2023	Radium-226+228	pCi/L	7.114			no
POC #4	8/2/2023	Radium-226+228	pCi/L	5.7823			no
POC #4	12/12/2023	Radium-226+228	pCi/L	5.5513			no
POC #4	4/30/1987	Selenium	ug/L	2			no
POC #4	9/10/1987	Selenium	ug/L	<5			no
POC #4	12/1/1987	Selenium	ug/L	<5			no
POC #4	6/28/1988	Selenium	ug/L	<5			no
POC #4	9/20/1988	Selenium	ug/L	9			no
POC #4	12/27/1988	Selenium	ug/L	<1			no
POC #4	4/17/1989	Selenium	ug/L	1			no
POC #4	5/30/1989	Selenium	ug/L	9			no
POC #4	9/4/1989	Selenium	ug/L	7			no
POC #4	12/30/1989	Selenium	ug/L	2			no
POC #4	3/30/1990	Selenium	ug/L	<1			no
POC #4	6/29/1990	Selenium	ug/L	8			no
POC #4	9/19/1990	Selenium	ug/L	4			no
POC #4	6/11/1991	Selenium	ug/L	7			no
POC #4	11/16/1992	Selenium	ug/L	5.4			no
POC #4	9/11/2018	Selenium	ug/L	4.8	0.3	0.1	no
POC #4	9/11/2019	Selenium	ug/L	6.7	0.3	0.1	no
POC #4	3/17/2021	Selenium	ug/L	5.08	0.25	0.1	no
POC #4	5/25/2021	Selenium	ug/L	5.3	0.25	0.1	no
POC #4	8/5/2021	Selenium	ug/L	4.74	0.25	0.1	no
POC #4	12/8/2021	Selenium	ug/L	5.87	0.25	0.1	no
POC #4	3/1/2022	Selenium	ug/L	5.46	0.25	0.1	no
POC #4	5/25/2022	Selenium	ug/L	5.14	0.25	0.1	no
POC #4	9/27/2022	Selenium	ug/L	<7.35	10	7.35	no
POC #4	11/16/2022	Selenium	ug/L	10.1	10	7.35	no
POC #4	3/27/2023	Selenium	ug/L	<7.35	10	7.35	no
POC #4	5/7/2023	Selenium	ug/L	<7.35	10	7.35	no
POC #4	8/2/2023	Selenium	ug/L	<7.35	10	7.35	no
POC #4	12/12/2023	Selenium	ug/L	<7.35	10	7.35	no
POC #4	9/10/1987	Thallium	ug/L	<100			NA
POC #4	12/1/1987	Thallium	ug/L	<100			NA
POC #4	6/28/1988	Thallium	ug/L	<100			NA
POC #4	9/11/2018	Thallium	ug/L	<0.1	0.5	0.1	NA

APPENDIX A
Groundwater Monitoring Results for POC #1, POC #2, POC #3, and POC #4
EFRI - Pinyon Plain Mine

Well	Date	Parameter	Units	Result	PQL	MDL	Extreme Outlier?
POC #4	9/11/2019	Thallium	ug/L	<0.1	0.5	0.1	NA
POC #4	3/17/2021	Thallium	ug/L	<0.1	0.5	0.1	NA
POC #4	5/25/2021	Thallium	ug/L	<0.1	0.5	0.1	NA
POC #4	8/5/2021	Thallium	ug/L	<0.1	0.5	0.1	NA
POC #4	12/8/2021	Thallium	ug/L	<0.1	0.5	0.1	NA
POC #4	3/1/2022	Thallium	ug/L	<0.1	0.5	0.1	NA
POC #4	5/25/2022	Thallium	ug/L	<0.1	0.5	0.1	NA
POC #4	11/16/2022	Thallium	ug/L	<0.121	2	0.121	NA
POC #4	3/27/2023	Thallium	ug/L	<0.121	2	0.121	NA
POC #4	5/7/2023	Thallium	ug/L	<0.121	2	0.121	NA
POC #4	8/2/2023	Thallium	ug/L	<0.121	2	0.121	NA
POC #4	12/12/2023	Thallium	ug/L	<0.121	2	0.121	NA

Notes:

mg/L = milligrams per liter

ug/L = micrograms per liter

s.u. = standard units

pCi/L = picocuries per liter

PQL = practical quantitation limit

MDL = minimum detection limit

NA = not applicable

POC #4 extreme outlier results consider the full dataset

APPENDIX G

HISTORIC WATER QUALITY RESULTS (ELMA)

TABLE G.1 SUMMARY OF LABORATORY CHEMICAL RESULTS FOR COMMON CONSTITUENTS AND ROUTINE PARAMETERS IN GROUNDWATER SAMPLES OBTAINED FROM PINYON PLAIN MINE WATER SUPPLY/MONITOR WELL

DATE SAMPLED: LABORATORY ^a	12-18-86		04-30-87		09-10-87		12-01-87		04-29-88		06-28-88		09-20-88		12-27-88		04-17-89		05-30-89		09-04-89	
	BC	BLI	BC	BLI	BC	BLI	BC	BLI	BC	BLI	BC	BLI	BC	BLI	BC	BLI	BC	BLI	BC	BLI	BC	BLI
COMMON CONSTITUENTS (mg/L) ^c																						
CALCIUM	42	37.7	42	44.3	43.9	45.4	42	45.4	44.4	42	40.6	40.7	40.8	40.7	40.8	40.7	40.8	40.7	40.6	40.6	40.7	40.8
MAGNESIUM	32	27.8	31	29.1	28.9	30.4	31	30.4	30.4	31	28.2	28.8	29.8	28.8	29.8	28.8	29.8	28.8	28.2	28.2	28.8	29.8
SODIUM	6	21.7	7	7.59	7.52	5.41	6.4	5.41	5.64	7	6.34	6.00	5.77	6	5.77	6	5.77	6	6.34	6	6.00	5.94
POTASSIUM	14	2.77	2.8	2.22	2.33	2.55	2.5	2.33	2.46	2.5	2.2	2.2	2.3	2.2	2.3	2.2	2.3	2.2	2.2	2.2	2.2	2.1
CARBONATE	0	<1	0	<1	<1	<1	0	<1	4.9	0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2.5
BICARBONATE	268	277	272	260	260	262	269	262	254	271	266	262	262	262	262	262	262	262	266	266	262	262
SULFATE	20	22	12	13	12	26	22	26	18	19	11	16	20	20	20	16	20	20	18	18	19	19
SULFITE	---	---	---	---	---	---	---	---	---	---	<2	<5	<5	<5	<5	<5	<5	<5	<2	<2	<5	<5
CHLORIDE	16.3	7.8	9.6	6	6	2.5	6.0	6.0	7.0	6.6	4.6	8.0	7.2	8.0	7.2	8.0	7.2	8.0	4.6	4.6	8.0	4.9
FLUORIDE	0.44	0.29	0.23	0.26	0.26	0.32	0.31	0.32	0.36	0.30	0.35	0.34	0.33	0.34	0.33	0.34	0.33	0.34	0.35	0.30	0.34	0.3
NITRATE (as N)	0.1	0.4	0.2	0.1	0.2	<0.1	0.1	0.1	0.1	0.1	0.1	<1.0	<0.1	<1.0	<0.1	<1.0	<0.1	<1.0	0.1	0.1	<0.1	0.3
NITRITE (as N)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
AMMONIUM (as N)	---	0.8	---	---	---	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
PHOSPHATE	<0.1	---	<0.1	<0.01	<0.01	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SILICA	6.4	---	9.8	4.67	4.65	4.4	4.4	4.4	11.4	4.6	3.70	9.7	10.1	9.7	10.1	9.7	10.1	8.0	8.0	9.69	9.69	11.7
ALKALINITY (as CaCO ₃)	220	227 ^d	223	213	213	215 ^d	221	215 ^d	216	222	218	215	215	215	215	215	215	215	221	218	221	214
HARDNESS (as CaCO ₃)	237	209 ^d	233	235	235	239 ^d	233	233	236 ^d	233 ^d	218 ^d	221 ^d	225 ^d	225 ^d	225 ^d	221 ^d	225 ^d	225 ^d	236 ^d	218 ^d	236 ^d	236 ^d
TOTAL DISSOLVED SOLIDS (residue @ 180°C)	315	366	290	230	234	192	310	192	214	275	217	232	234	234	234	232	234	234	275	217	275	187
TOTAL SUSPENDED SOLIDS	---	5	---	---	---	5	---	---	<4	---	<4	7	---	---	---	---	---	---	<4	<4	---	<4
ROUTINE PARAMETERS																						
SPECIFIC ELECTRICAL CONDUCTANCE (µmho/cm) ^e																						
field	465	408	450	450	450	480	480	480	454	430	432	---	408	---	408	---	408	---	416	416	430	399
Laboratory	490	459	440	464	465	446	440	440	435	450	452	494	454	450	454	450	450	450	450	450	419	487
pH: field	8.01	7.12	7.62	7.62	7.62	7.63	7.63	7.63	6.83	7.47	6.60	6.50	7.13	7.8	7.13	7.8	7.13	7.8	7.47	7.8	7.10	6.97
Laboratory	7.8	7.02	7.8	7.79	7.79	7.6	7.6	7.6	8.52	7.9	7.48	7.86	7.41	7.8	7.41	7.8	7.41	7.8	7.9	7.8	8.13	7.38
FIELD TEMPERATURE (°C)	6.3	25.5	25.1	25.1	25.1	24.3	24.3	24.3	25.5	24.5	26	25.5	26	24.5	26	25.5	26	24.5	26	24.5	26	26
TURBIDITY (JTU) ^f	---	<1	---	<1	<1	<1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
COLOR (COLOR UNITS)	---	---	---	<1	<1	<1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
LANGELIER INDEX	---	---	---	7.71	7.69	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---



TABLE G.1 SUMMARY OF LABORATORY CHEMICAL RESULTS FOR COMMON CONSTITUENTS AND ROUTINE PARAMETERS IN GROUNDWATER SAMPLES OBTAINED FROM PINTON PLAIN MINE WATER SUPPLY/MONITOR WELL
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DATE SAMPLED: LABORATORY ^a :	12-30-89	05-30-90	06-29-90	09-19-90	12-26-90	03-22-91	06-11-91	08-20-91	12-24-91	01-15-92	05-01-92	07-16-92	11-16-92	01-21-93	05-14-93
	BLI	BLI	BLI	BLI	BLI ^g	BLI ^g	BC	BLI ^g	BLI ^g	BLI ^g	BLI ^g	BLI ^g	BC	BLI ^g	BLI ^g
COMMON CONSTITUENTS (mg/L) ^c															
CALCIUM	44.3	58.3	43.6	41.1	38.5	40.2	42	40.0	41.5	45	33.4	39.1	41	44.9	46.0
MAGNESIUM	30.3	34.9	30.2	32.0	28.5	27.9	31	29	29.3	31	26.0	27.5	30	30.8	30.8
SODIUM	0.014	8.12	5.54	5.94	5.53	6.59	6.0	5.9	5.68	6.1	5.02	5.90	6.3	6.04	5.97
POTASSIUM	2.4	2.8	2.3	2.2	2.2	2.2	2.5	1.8	2.2	2.2	1.6	2.4	2.4	2.4	2.9
CARBONATE	<0.5	<1	<1	0.0	<1	<1	<2.6	<1	<1	<1	<1	<1	<2.6	<1	<1
BICARBONATE	259	274	274	255	237	249	264	280	310	291	266	260	267	259	250
SULFATE	18	14	4.8	20.4	16	23	19	17	20.8	20.2	21.5	18	18	19	20
CHLORIDE	8	6	8	6	4	5	4.2	6.1	6.4	13	40	7	6.2	7	7
FLUORIDE	0.3	0.3	0.3	0.3	0.5	0.5	0.36	<0.1	0.2	0.1	0.4	0.3	0.28	0.3	0.2
NITRATE (as N)	---	<0.1	<0.1	<0.1	<0.1	0.3	0.1	0.25	0.2	<0.1	<1	0.3	<0.1	0.2	0.1
NITRITE (as N)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
AMMONIUM (as N)	<0.1	<0.1	---	<0.1	<0.1	0.4	<0.1	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1
PHOSPHATE	<0.1	<0.1	<0.1	<0.1	10.2	10.6	9.8	11	11	14.3	5.26	5.12	10	9.69	4.45
SILICA	9.9	10.9	10.3	10.5	19.4	10.6	21.6	23.0	25.4	23.0	21.8	21.3	21.9	21.2	20.5
ALKALINITY (as CaCO ₃)	212	212	225 ^d	209.1	194	215 ^d	232 ^d	219 ^d	224 ^d	240 ^d	190 ^d	210 ^d	225 ^d	208	205
HARDNESS (as CaCO ₃)	236 ^d	289 ^d	233 ^d	234 ^d	213 ^d	215 ^d	232 ^d	219 ^d	224 ^d	240 ^d	190 ^d	210 ^d	225 ^d	238 ^d	241 ^d
TOTAL DISSOLVED SOLIDS (Residue @ 180°C)	224	190	250	232	168	194	255	240	251	226	250	256	250	222	244
TOTAL SUSPENDED SOLIDS	<4	<4	4	<4	---	---	---	---	---	---	---	---	---	---	---
ROUTINE PARAMETERS															
SPECIFIC ELECTRICAL CONDUCTANCE (µmho/cm) ^e	468	442	412	432	388	407	450	436	481	455	436	430	443	445	420
laboratory	464	444	452	435	417	555	450	500	600	240	371	229	460	479	463
ph: field	6.52	6.75	7.18	6.22	6.85	6.75	7.52	7.12	6.60	6.75	6.60	6.70	7.51	7.07	7.20
laboratory	7.53	7.27	7.62	7.92	7.47	7.40	7.2	7.76	7.12	7.29	7.43	7.50	7.5	7.36	7.09
FIELD TEMPERATURE (°C)	26	26	26.5	26	26	26	25.8	27	27	27	27	27	24.0	27	27
TURBIDITY (JTU) ^f	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
COLOR (COLOR UNITS)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
LANGELIER INDEX	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

a BC = BC Laboratories, Inc., Bakersfield, California
BLI = Barringer Laboratories, Inc., Golden, Colorado

b Duplicate sample

c mg/L = milligrams per liter

d Not reported by lab; calculated by Errol L. Montgomery & Associates, Inc.

e µmho/cm = micromhos per centimeter

f JTU = Jackson Turbidity Unit

g Samples obtained after 09-19-90 and analyzed by BLI were acidified but not filtered at time of collection, as directed by Arizona Department of Environmental Quality

< = Less than

--- = Not analyzed



TABLE G.2. SUMMARY OF LABORATORY CHEMICAL RESULTS FOR TRACE CONSTITUENTS IN GROUNDWATER SAMPLES
OBTAINED FROM PINYON PLAIN MINE WATER SUPPLY/MONITOR WELL

DATE SAMPLED: LABORATORY #:	12-18-86		04-30-87		09-10-87		12-01-87		04-29-88		06-28-88		09-20-88		12-27-88		04-17-89	
	BC	BLI	BC	BLI	BLI ^b	BC	BLI	BC	BLI	BLI	BC	BLI	BC	BLI	BC	BLI	BC	BLI
TRACE CONSTITUENTS (mg/L)^c																		
ALUMINUM	<0.5	---	<0.5	0.06	0.07	<0.05	---	<0.05	---	<0.05	<0.05	<0.05	---	---	<0.05	---	---	---
ANTIMONY	<1.0	---	<0.10	<0.01	<0.01	<0.10	---	<0.10	---	<0.10	<0.10	<0.10	---	---	<0.10	---	---	---
ARSENIC	<0.01	<0.001	<0.01	<0.001	<0.001	<0.01	<0.001	<0.01	<0.001	<0.001	<0.01	<0.01	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001
BARIUM	<0.5	0.3	0.18	0.20	0.20	<0.10	0.10	<0.10	0.10	0.10	<0.10	<0.10	0.09	0.12	<0.001	0.009	<0.001	0.009
BERYLLIUM	<0.01	---	<0.01	<0.005	<0.005	<0.01	---	<0.01	---	<0.01	<0.01	<0.01	---	---	<0.01	---	---	---
BORON	<0.10	0.32	<0.10	0.05	0.06	<0.10	0.09	<0.10	0.09	<0.10	<0.10	<0.10	0.08	<0.01	<0.01	<0.01	<0.01	<0.01
CADMIUM	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
CHROMIUM (total)	<0.01	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01
COPPER	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
IRON	<0.05	0.13	<0.05	0.01	0.01	0.07	0.16	0.07	0.16	0.25	0.06	0.06	0.23	0.46	0.01	0.26	0.01	0.26
LEAD	<0.01	<0.001	<0.01	0.02	<0.02	<0.01	<0.02	<0.01	<0.02	<0.02	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
MANGANESE	0.26	0.07	0.03	0.03	0.03	0.04	0.05	0.04	0.05	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
MERCURY	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0014	0.0009	0.0009	0.0005	0.0004	0.0004	<0.0002	<0.0002	<0.0002
MOLYBDENUM	<0.1	<0.1	<0.10	<0.01	0.01	<0.10	0.06	<0.10	0.06	---	<0.10	<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
NICKEL	<0.05	<0.05	<0.05	<0.01	<0.01	<0.05	---	<0.05	---	---	<0.05	<0.05	---	---	<0.05	---	---	---
SELENIUM	<0.005	0.002	<0.005	0.004	0.003	<0.005	0.005	<0.005	0.005	0.003	<0.005	<0.005	0.009	<0.001	<0.001	0.001	<0.001	0.001
SILVER	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
THALLIUM	<0.5	---	<0.10	<0.01	<0.01	<0.10	---	<0.10	---	---	<0.10	<0.10	---	---	<0.10	---	---	---
VANADIUM	<0.5	---	<0.5	0.03	0.03	<0.05	---	<0.05	---	---	<0.05	<0.05	---	---	<0.05	---	---	---
ZINC	<0.01	0.130	0.16	0.089	0.092	0.05	0.057	0.05	0.057	0.035	0.03	0.03	0.072	0.123	0.123	0.084	0.084	0.084
CYANIDE	---	<0.001	---	---	---	---	<0.01	---	<0.01	---	---	---	---	---	---	---	---	---
PHENOL	---	<0.01	---	---	---	---	<0.01	---	<0.01	---	---	---	---	---	---	---	---	---
SULFUR	---	<0.1	---	---	---	---	<0.1	---	<0.1	---	---	---	---	---	---	---	---	---
STRONTIUM	---	---	---	0.24	0.25	---	---	---	---	---	---	---	---	---	---	---	---	---



TABLE G.2 SUMMARY OF LABORATORY CHEMICAL RESULTS FOR TRACE CONSTITUENTS IN GROUNDWATER SAMPLES
OBTAINED FROM PINYON PLAIN MINE WATER SUPPLY/MONITOR WELL
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DATE SAMPLED: LABORATORY ^a :	05-30-89		09-04-89		12-30-89		03-30-90		06-29-90		09-19-90		12-26-90		03-22-91		06-11-91		08-20-91		
	BC	BLI	BC	BLI	BC	BLI	BC	BLI	BC	BLI	BC	BLI	BC	BLI	BC	BLI	BC	BLI	BC	BLI	
TRACE CONSTITUENTS (mg/L)^c																					
ALUMINUM	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
ANTIMONY	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
ARSENIC	<0.010	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
BARIUM	<0.100	0.08	0.10	0.10	0.07	0.15	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.04	0.04	0.04	0.04	0.09	
BERYLLIUM	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
BORON	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
CADMIUM	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
CHROMIUM (total)	<0.010	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
COPPER	<0.010	<0.01	0.01	0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
IRON	<0.050	0.21	0.32	0.32	0.12	0.11	0.07	0.07	0.03	0.03	0.03	0.03	1.13	1.88	1.88	0.27	0.27	0.27	0.27	0.89	
LEAD	<0.010	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
MANGANESE	0.029	0.03	0.04	0.04	0.04	0.04	0.03	0.03	0.01	0.01	0.01	0.01	0.04	0.07	0.07	0.14	0.14	0.14	0.14	0.04	
MERCURY	0.0004	0.0002	0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0003	0.0003	0.0003	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
MOLYBDENUM	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
NICKEL	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
SELENIUM	<0.005	0.009	0.007	0.007	0.002	<0.001	0.008	0.008	0.004	0.004	0.004	0.004	0.005	0.004	0.004	0.007	0.007	0.007	0.007	0.007	
SILVER	<0.010	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
THALLIUM	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
VANADIUM	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
ZINC	0.027	0.041	0.052	0.052	0.046	0.058	0.018	0.018	<0.005	<0.005	<0.005	0.090	0.090	0.061	0.061	1.1	1.1	1.1	1.1	0.048	
CYANIDE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
PHENOL	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
SULFUR	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
STRONTIUM	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	



TABLE G.2. SUMMARY OF LABORATORY CHEMICAL RESULTS FOR TRACE CONSTITUENTS IN GROUNDWATER SAMPLES OBTAINED FROM PINYON PLAIN MINE WATER SUPPLY/MONITOR WELL
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DATE SAMPLED: LABORATORY ^a :	12-24-91 BLI ^d	01-15-92 BLI ^d	05-01-92 BLI ^d	07-16-92 BLI ^d	11-16-92 BC	01-21-93 BLI ^d	05-14-93 BLI ^d
TRACE CONSTITUENTS (mg/L)^c							
ALUMINUM	---	---	---	---	---	---	---
ANTIMONY	---	---	---	---	---	---	---
ARSENIC	<0.001	<0.001	0.003	0.001	<0.002	0.001	0.002
BARIUM	0.10	1.0	0.17	0.01	<0.100	0.10	0.11
BERYLLIUM	---	---	---	---	---	---	---
BORON	---	---	---	---	---	---	---
CADMIUM	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.009
CHROMIUM (total)	<0.01	<0.01	0.01	<0.01	<0.010	<0.01	0.02
COPPER	0.01	<0.01	<0.01	<0.01	<0.010	<0.01	0.06
IRON	0.60	2.4	0.03	0.22	<0.050	0.73	9.75
LEAD	<0.02	0.03	0.02	<0.02	<0.005	<0.02	0.04
MANGANESE	0.06	0.05	0.03	0.08	0.033	0.03	0.10
MERCURY	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
MOLYBDENUM	---	---	---	---	---	---	---
NICKEL	---	---	---	---	---	---	---
SELENIUM	<0.002	0.006	0.002	0.008	0.0054	0.007	0.006
SILVER	<0.01	<0.01	0.01	<0.01	<0.010	<0.01	<0.01
THALLIUM	---	---	---	---	---	---	---
VANADIUM	---	---	---	---	---	---	---
ZINC	0.056	0.074	0.070	0.205	0.025	0.047	0.123
CYANIDE	---	---	---	---	---	---	---
PHENOL	---	---	---	---	---	---	---
SULFUR	---	---	---	---	---	---	---
STRONTIUM	---	---	---	---	---	---	---

^a BC = BC Laboratories, Inc., Bakersfield, California
BLI = Barringer Laboratories, Inc., Golden, Colorado

^b Duplicate sample

^c mg/L = milligrams per liter

^d Samples obtained after 09-19-90 and analyzed by BLI were acidified but not filtered at time of collection, as directed by Arizona Department of Environmental Quality.

< = Less than
--- = Not analyzed



TABLE G.3 SUMMARY OF LABORATORY CHEMICAL RESULTS FOR RADIOACTIVE PARAMETERS IN GROUNDWATER SAMPLES OBTAINED FROM PINYON PLAIN MINE WATER SUPPLY/MONITOR WELL

DATE SAMPLED: LABORATORY ^a	12-18-86		04-30-87		9-10-87		12-01-87		04-29-88		06-28-88	
	TMA	ASU	BLI	TMA	ASU	BLI	TMA	ASU	BLI	TMA	BLI	
PARAMETER (pCi/l ± 2σ)^b												
NON-FILTERED GROSS ALPHA	---	---	16 ± 4	---	---	14 ± 4	---	---	23 ± 5	---	18 ± 4	---
FILTERED GROSS ALPHA	1.1 ± 5.5	16.8 ± 10.2 ^c	---	---	15.8 ± 12.6	---	<15.4 ± 6.4	13.7 ± 11.8	---	15.5 ± 4.9	---	---
NON-FILTERED GROSS BETA	---	---	8.7 ± 1.8	---	---	5.7 ± 1.7	---	---	7.0 ± 1.7	---	8.0 ± 1.5	---
FILTERED GROSS BETA	13.7 ± 3.6	41.0 ± 2.0 ^c	---	4.5 ± 2.7	6.7 ± 2.7	---	8.5 ± 3.0	9.5 ± 2.7	---	6.2 ± 3.0	---	---
NON-FILTERED TOTAL URANIUM	---	---	---	---	---	7.2	---	---	---	---	12.1	---
picoCuries per liter	---	---	---	---	---	10.7	---	---	---	---	17.5	---
micrograms per liter	---	---	---	---	---	---	---	---	---	---	---	---
FILTERED TOTAL URANIUM	4 ± 2	---	2.8	3 ± 1	---	---	11 ± 2	---	---	7 ± 2	---	---
picoCuries per liter	6 ± 3	---	4.1	5 ± 2	---	---	16 ± 3	---	---	10 ± 3	---	---
micrograms per liter	---	---	---	---	---	---	---	---	---	---	---	---
SUSPENDED TOTAL URANIUM	---	---	2.5	---	---	---	---	---	2.9	---	---	---
picoCuries per liter	---	---	3.7	---	---	---	---	---	4.3	---	---	---
micrograms per liter	---	---	---	---	---	---	---	---	---	---	---	---
NON-FILTERED URANIUM 234	---	---	---	---	---	4.3 ± 1.1	---	---	---	---	---	---
FILTERED URANIUM 234	1.7 ± 0.2	3.3 ± 0.6	---	9.0 ± 0.4	9.03 ± 0.7	---	11.2 ± 0.6	11.10 ± 0.2	---	10.2 ± 0.5	---	---
NON-FILTERED URANIUM 235	---	---	---	---	---	---	---	---	---	---	---	---
FILTERED URANIUM 235	0 ± 0.2	0.2 ± 0.2	---	0.2 ± 0.1	0.14 ± 0.1	---	0.4 ± 0.2	0.32 ± 0.2	---	0.2 ± 0.1	---	---
NON-FILTERED URANIUM 238	---	---	---	---	---	---	---	---	---	---	---	---
FILTERED URANIUM 238	1.4 ± 0.2	1.6 ± 0.4	---	4.1 ± 0.2	4.34 ± 0.5	---	5.2 ± 0.2	5.53 ± 0.6	---	5.2 ± 0.3	---	---
NON-FILTERED THORIUM 228	---	---	---	---	---	---	---	---	---	---	---	---
FILTERED THORIUM 228	0 ± 0.3	---	---	0 ± 0.1	---	---	0.0 ± 0.5	---	---	0 ± 0.1	---	---
NON-FILTERED THORIUM 230	---	---	0.0 ± 0.4	---	---	---	0.8 ± 0.4	---	0.0 ± 0.4	0.1 ± 0.4	---	0.4 ± 0.6
FILTERED THORIUM 230	0 ± 0.2	---	---	0 ± 0.1	---	---	---	---	---	0 ± 0.1	---	---
NON-FILTERED THORIUM 232	---	---	---	---	---	---	0.0 ± 0.5	---	---	---	---	---
FILTERED THORIUM 232	0 ± 0.2	---	---	0 ± 0.1	---	---	---	---	---	0 ± 0.1	---	---
NON-FILTERED RADIUM 226	---	---	1.9 ± 0.8	---	---	---	1.6 ± 0.5	---	1.6 ± 0.5	1.7 ± 0.5	---	2.2 ± 0.5
FILTERED RADIUM 226	0.9 ± 0.1	1.56 ± 0.06	---	0 ± 0.1	1.45 ± 0.3	---	1.6 ± 0.1	---	---	1.2 ± 0.2	---	---
NON-FILTERED RADIUM 228	0 ± 0.5	---	0.0 ± 1.2	0 ± 0.5	---	---	0.5 ± 1.0	---	0.0 ± 0.9	0.2 ± 1.2	---	---
FILTERED RADIUM 228	0 ± 0.5	---	---	0 ± 0.5	---	---	---	---	---	0 ± 0.5	---	---
NON-FILTERED POLONIUM 210	---	---	---	---	---	---	---	---	---	---	---	---
NON-FILTERED LEAD 210	---	---	0.0 ± 0.4	---	---	---	---	---	---	0.0 ± 0.7	---	---
FILTERED TRITIUM (4-3)	---	<555	1.9 ± 1.3	---	---	---	---	---	---	0.0 ± 2.0	---	---
FILTERED STRONTIUM 90	---	<2.6	---	---	---	---	---	---	---	---	---	---
TOTAL GAMMA ISOTOPES	---	---	---	---	---	---	---	---	---	---	---	---

TABLE G.3. SUMMARY OF LABORATORY CHEMICAL RESULTS FOR RADIOACTIVE PARAMETERS IN GROUNDWATER SAMPLES
 OBTAINED FROM PINYON PLAIN MINE WATER SUPPLY/MONITOR WELL
 Page 2 of 2

DATE SAMPLED: LABORATORY	09-20-88 BLI	12-27-88 BLI	04-17-89 BLI	TMA	05-30-89 BLI	ARRA	09-04-89 BLI	12-30-89 BLI	03-30-90 BLI	06-29-90 BLI	09-19-90 BLI	12-26-90 BLI
PARAMETER (pCi/l ± 2σ) ^b												
NON-FILTERED GROSS ALPHA	13 ± 4	17 ± 4	17 ± 5	...	12 ± 4	19.30 ± 1.85	15 ± 4	19 ± 4	15 ± 4	27 ± 6	17 ± 4	18 ± 4
FILTERED GROSS ALPHA	...	...	...	6 ± 1	...	...	...	...	19 ± 4	22 ± 5	18 ± 4	...
NON-FILTERED GROSS BETA	11 ± 2	10 ± 2	5.8 ± 2.4	...	8.1 ± 1.6	5.84 ± 0.74	6.0 ± 2.7	5.9 ± 1.7	9.2 ± 2.0	8.9 ± 2.2	4.9 ± 1.9	9.1 ± 2.0
FILTERED GROSS BETA	...	...	...	6 ± 2	...	...	...	...	8.9 ± 1.9	0 ± 1.6	7.6 ± 1.9	...
NON-FILTERED TOTAL URANIUM picocuries per liter	10.9	12.4	9.5	...	9.8	...	8.1	12	9.5	9.5	12.9	12.4
micrograms per liter	16.1	18.3	14.1	...	14.5	...	12	17	14	14	19.1	18.3
FILTERED TOTAL URANIUM picocuries per liter	...	...	...	209 ± 20 ^e	...	...	...	11	8.8	8.8	7.79	...
micrograms per liter	...	...	...	309 ± 30 ^e	...	...	...	16	13	13	11.5	...
SUSPENDED TOTAL URANIUM picocuries per liter	...	...	...	...	...	...	...	...	...	...	...	...
micrograms per liter	...	...	...	...	...	...	...	...	...	...	...	...
NON-FILTERED URANIUM 234	...	...	...	...	...	...	...	...	...	...	...	...
FILTERED URANIUM 234	...	...	...	...	...	...	...	...	...	...	...	...
NON-FILTERED URANIUM 235	...	...	...	...	...	...	...	...	...	...	...	...
FILTERED URANIUM 235	...	...	...	...	...	...	...	...	...	...	...	...
NON-FILTERED URANIUM 238	...	...	...	...	...	...	...	...	...	...	...	...
FILTERED URANIUM 238	...	...	...	...	...	...	...	...	...	...	...	...
NON-FILTERED THORIUM 228	...	...	...	...	...	...	...	...	...	...	...	...
FILTERED THORIUM 228	...	...	...	...	...	...	...	...	...	...	...	...
NON-FILTERED THORIUM 230	...	...	...	...	...	...	0.0 ± 1.6	0.0 ± 0.3	0.4 ± 0.6	0.0 ± 0.3	0.3 ± 0.6	1.4 ± 0.8
FILTERED THORIUM 230	1.3 ± 0.8	0.3 ± 0.5	1.1 ± 2.1	...	1.7 ± 1.1	...	...	...	0.2 ± 0.4	0.5 ± 0.5	0.0 ± 0.4	...
NON-FILTERED THORIUM 232	...	...	...	0 ± 0.1	...	...	...	...	...	...	...	...
FILTERED THORIUM 232	...	...	...	...	...	...	...	...	...	...	...	...
NON-FILTERED RADIUM 226	1.8 ± 0.5	2.9 ± 0.6	11 ± 4	...	1.6 ± 0.4	...	1.6 ± 0.7	1.3 ± 0.4	1.8 ± 0.7	1.7 ± 0.5	2.1 ± 0.4	2.5 ± 0.6
FILTERED RADIUM 226	...	...	...	1.24 ± 0.07	...	...	...	...	1.6 ± 0.5	1.5 ± 0.5	1.5 ± 0.4	...
NON-FILTERED RADIUM 228	...	...	...	...	...	...	...	...	...	...	...	...
FILTERED RADIUM 228	...	...	...	...	...	...	...	...	...	...	...	...
NON-FILTERED POLONIUM 210	...	...	...	...	...	...	...	...	...	...	...	...
NON-FILTERED LEAD 210	...	...	...	...	...	...	...	...	...	...	...	...
FILTERED TRITIUM (H-3)	...	...	...	...	...	...	...	...	...	...	...	...
FILTERED STRONTIUM 90	...	...	...	...	...	...	...	...	...	...	...	...
TOTAL GAMMA ISOTOPES	...	...	...	...	...	ND	...	...	...	...	...	...



TABLE G.3. SUMMARY OF LABORATORY CHEMICAL RESULTS FOR RADIOACTIVE PARAMETERS IN GROUNDWATER SAMPLES OBTAINED FROM PINYON PLAIN MINE WATER SUPPLY/MONITOR WELL

Page 2 of 3

DATE SAMPLED: LABORATORY ^a	03-22-91 BLI	06-11-91 TMA BLI	08-20-91 BLI	12-24-91 BLI	01-15-92 BLI	05-01-92 BLI	07-16-92 BLI	11-16-92 TMA BLI	01-21-93 BLI	05-14-93 BLI
PARAMETER (pCi/L ± 2σ) ^b										
NON-FILTERED GROSS ALPHA	16 ± 4	18 ± 5	12 ± 6	16 ± 4	12 ± 3	20 ± 4	14 ± 4	15 ± 4	48 ± 29	14 ± 4
FILTERED GROSS ALPHA	7 ± 4	7 ± 4	7.3 ± 4.3	9.0 ± 1.9	8.8 ± 2.0	13 ± 4	9.2 ± 2.4	17 ± 5	28 ± 24	6.7 ± 2.3
NON-FILTERED GROSS BETA	7.0 ± 1.8	7.7 ± 2.5	7.3 ± 4.3	9.0 ± 1.9	8.8 ± 2.0	13 ± 4	9.2 ± 2.4	4 ± 1	28 ± 24	6.7 ± 2.3
FILTERED GROSS BETA	9 ± 5	9 ± 5	9.0 ± 1.9	9.0 ± 1.9	8.8 ± 2.0	13 ± 4	9.2 ± 2.4	4 ± 1	28 ± 24	6.7 ± 2.3
NON-FILTERED TOTAL URANIUM picograms per liter	9.9	10.8	18.1	12.0	10.4	14.2	10.2	10.8	10.0	10.4
FILTERED TOTAL URANIUM picograms per liter	14.6	15.9	26.7	17.7	15.4	21.0	15.0	15.9	16.8	15.4
NON-FILTERED TOTAL URANIUM picograms per liter	14 ± 4	14 ± 4	18.1	12.0	10.4	14.2	10.2	10.8 ± 2.60	10.0	10.4
FILTERED TOTAL URANIUM picograms per liter	14 ± 4	14 ± 4	18.1	12.0	10.4	14.2	10.2	10.8 ± 2.60	10.0	10.4
SUSPENDED TOTAL URANIUM picograms per liter	14 ± 4	14 ± 4	18.1	12.0	10.4	14.2	10.2	10.8 ± 2.60	10.0	10.4
NON-FILTERED URANIUM 234										
FILTERED URANIUM 234										
NON-FILTERED URANIUM 235										
FILTERED URANIUM 235										
NON-FILTERED URANIUM 238										
FILTERED URANIUM 238										
NON-FILTERED THORIUM 228										
FILTERED THORIUM 228										
NON-FILTERED THORIUM 230										
FILTERED THORIUM 230	0.1 ± 0.6	0.5 ± 0.9	1.0 ± 0.8	0.0 ± 0.5	0.0 ± 0.7	0.0 ± 0.6	0.0 ± 0.6	0.1 ± 0.1	0.2 ± 0.5	0.9 ± 0.7
NON-FILTERED THORIUM 232										
FILTERED THORIUM 232	<0.1	<0.1						0.0 ± 0.5		
NON-FILTERED RADIUM 226										
FILTERED RADIUM 226	2.3 ± 0.8	1.0 ± 0.4	1.8 ± 0.6	1.5 ± 0.5	0.9 ± 0.4	2.6 ± 0.9	2.7 ± 0.9	0 ± 1	2.0 ± 0.8	2.6 ± 1.1
NON-FILTERED RADIUM 228										
FILTERED RADIUM 228	0.9 ± 0.6	0.9 ± 0.6								
NON-FILTERED POLONIUM 210										
NON-FILTERED LEAD 210										
FILTERED TRITIUM (H-3)										
FILTERED STRONTIUM 90										
TOTAL GAMMA ISOTOPES										



TABLE G.3 SUMMARY OF LABORATORY CHEMICAL RESULTS FOR RADIOACTIVE PARAMETERS IN GROUNDWATER SAMPLES
OBTAINED FROM PINYON PLAIN MINE WATER SUPPLY/MONITOR WELL
Page 2 of 4

- ^a TMA = Thermo Analytical, Inc., Richmond, California (formerly EAL Corporation)
ASU = Arizona State University, Tempe, Arizona
BLI = Barringer Laboratories, Inc., Golden, Colorado
ARRA = Arizona Radiation Regulatory Agency, Phoenix, Arizona
- ^b pCi/l ± 2σ = picocuries per liter ± two standard deviations; 87.3 ± 2.9 pCi/L indicates that there is 95 percent confidence that the true concentration is between 84.4 and 90.2 pCi/L.
- ^c Gross alpha and beta assays are inaccurate due to self absorption and difficulty in processing samples with high total dissolved solids.
- ^d Laboratory contamination suspected based on results for duplicate sample.
- ^e Detected at similar concentration in quality control blank.
- < = Less than
--- = Not analyzed
ND = Not detected

NOTE: NON-FILTERED indicates sample was not filtered prior to analysis
FILTERED indicates sample was filtered (0.45 micron filter) prior to analysis
SUSPENDED indicates the fraction retained on 0.45 micron filter was analyzed
TOTAL URANIUM indicates analysis for Uranium isotopes U-234, U-235, and U-238



APPENDIX D

**LABORATORY ANALYTICAL
REPORTS**

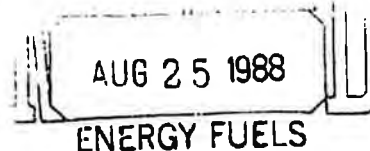
ERROL L. MONTGOMERY & ASSOCIATES, INC.

CONSULTANTS IN HYDROGEOLOGY



1075 EAST FORT LOWELL ROAD, SUITE B
TUCSON, ARIZONA 85719 (602) 881-4912
TELEX: 165597 MONTE TUC

ERROL L. MONTGOMERY, P.G.
JOHN W. HARSHBARGER, P.G., P.E.
DONALD K. GREENE, P.E.
WILLIAM R. VICTOR, P.G.
EDWARD W. PEACOCK, P.G.
RONALD H. DEWITT



August 24, 1988

Mr. William Almas
ENERGY FUELS NUCLEAR, INC.
1 Tabor Center, Suite 2500
1200 17th Street
Denver, Colorado 80202

RE: RESULTS OF ANALYSES FOR JUNE 1988 SAMPLING
ROUND FOR CANYON MINE MONITOR/SUPPLY WELL

Dear Bill:

The Canyon Mine Groundwater Quality Protection Permit, which was signed by Energy Fuels Nuclear (EFN) on May 23, 1988, indicates on page 11 that results of laboratory chemical analyses for groundwater samples obtained during April, May, or June are required to be submitted on or before August 28 to:

Arizona Department of Environmental Quality
OWQ - Water Pollution/UST Compliance Unit
2005 North Central Avenue
Phoenix, Arizona 85004

The sampling round for the Canyon Mine monitor/supply well was conducted on June 28, 1988. Enclosed please find analytical results for coliform, trace constituents, and routine constituents. Field measurements for water quality are also enclosed herewith. The enclosed results should be received no later than August 28, 1988, by Miguel Santiago, Environmental Health Specialist for the Water Permits Unit, at the address given above. The permit indicates that special "self-monitoring forms", provided by Arizona Department of Environmental Quality, should be used by EFN to report the data. Analytical results for radiometric parameters have not yet been received from the chemical laboratories; however, we anticipate receipt of the results soon.

The reporting schedule favors sampling in the early to middle part of each three-month reporting period, and it was our intent to conduct the 1988 sampling round during early May. However, it was not possible to schedule the sampling round until June 28. Had the sampling round been postponed three more days, submittal of the analytical report to the regulatory agency would not have been required until November 28. I have contacted Miguel Santiago regarding submittal of chemical results after the scheduled report deadline, and he indicated that we should send a letter to him requesting a time extension. Enclosed is suggested language for the letter to be sent to Mr Santiago.



A sampling round for the three springs in the Grand Canyon has been scheduled for September 20, 1988, to complete the annual permit sampling requirements for 1988. Mike Leach has informed us that notification of the schedule for each sampling round should be given to the following people:

Michael D. Leach
Hydrologist
State Permits Hydrology Unit
ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY
2005 North Central Avenue
Phoenix, Arizona 85004

and

Harley Hiatt
ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY
2501 North Fourth Street, Office #14
Flagstaff, Arizona 86004

In accordance with the permit, EFN should submit such notification at least five business days prior September 20.

Please note that the monitoring conducted by Montgomery & Associates fulfills only the annual sampling requirements for the well and the springs. The groundwater samples that we obtain from the well are analyzed for the comprehensive list of parameters given in Part II.B.2.b of the permit. The quarterly samples obtained from the well by EFN are required to be analyzed only for the indicator parameters given in Part II.B.2.a of the permit.

If you have questions or require further discussion, please contact me.

Very truly yours,
ERROL L. MONTGOMERY & ASSOCIATES, INC.

William R. Victor

SENT VIA FEDERAL EXPRESS

Enclosures (4)

cc: Brad Doores
Rich Munson
Larry Casebolt



Errol L. Montgomery & Associates, Inc.
 Cobblestone Court
 1075 E. Fort Lowell Road, Suite B
 Tucson, Arizona 85719
 Attention: W. R. Victor

Date Reported: 08/18/88
 Date Received: 07/26/88
 Laboratory No.: 5554-1
 Job #585B

WATER ANALYSIS

Sample Description: 03-014438, 03-014439, 03-014440, 06/28/88 @ 14:30

<u>Constituents</u>	<u>epm</u>	<u>mg/liter</u>
Calcium	2.10	42
Magnesium	2.55	31
Sodium	0.30	7
Potassium	0.06	2.5
Carbonate	0	0
Bicarbonate	4.44	271
Chloride	0.13	4.6
Sulfate	0.40	19
Nitrate	(-) 0.01	0.4
Fluoride		0.30
Iron		0.06
Manganese		0.03
Arsenic		(-) 0.01
Copper		(-) 0.01
Zinc		0.03
Total Dissolved Solids @ 180 C		275
Barium		(-) 0.10
Cadmium		(-) 0.005
Chromium		(-) 0.01
Lead		(-) 0.01
Mercury		0.0009
Selenium		(-) 0.005
Silver		(-) 0.01
Antimony		(-) 0.10
Beryllium		(-) 0.01
Nickel		(-) 0.05
Thallium		(-) 0.10
Boron		(-) 0.10
Silica		4.6
Molybdenum		(-) 0.10
Phosphate, PO ₄ -P		(-) 0.1
Alkalinity as CaCO ₃		222
Aluminum		(-) 0.05
Vanadium		(-) 0.05
Electrical Conductivity		
Micromhos/cm @ 25 C		450
pH		7.9

B C LABORATORIES, INC.
J. J. Eglin

SPECIMEN NUMBER

For Total AND fecal coliform 2852

ARIZONA WATER SYSTEM BACTERIOLOGICAL ANALYSIS

DATE REC'D 6-28-88 11:00

PWS ID NO.
0 4

WATER SYSTEM NAME
CANYON MINE WELL

ANALYSIS METHOD CODES
Membrane Filter /100ml - 303
Multiple Tube /10ml - - - 305

ANALYSIS	
Method	Result
3 0 3	⓪
14-16	17-20

SAMPLE DATE
Mo. Day Year
6 28 88
31-38

SAMPLE
Type Time
37 1430
38-41

SAMPLE TYPE CODE
C - Check Sample
D - Regular Sample
P - Plant Tap Sample
R - Raw Water Sample
S - Special Sample

SAMPLE REJECT REASONS
CONF TNTC

REMARKS *FECAL = < 1 COLIFORM*

ANALYSIS DATE
Mo. Day Year
06 29 88
22-27

LOCATION NAME
03-004131

WR Victor
COLLECTED BY

LOC CODE
28-30

ANALYST DATE
GH 7-1-88

MAILING NAME OF REPORT
WR Victor (Errol L. Montgomery & Assoc)

MAILING ADDRESS
1075 E. Fort Lowell, Suite B

CITY STATE ZIP CODE
Tucson AZ 85719

LAB NAME AND ADDRESS
Western Technologies Inc.
2400 East Huntington Drive
Flagstaff, Arizona 86001
(602) 774-870

LAB ID NUMBER
0 0 0 1 4
7.500000
12.000000
19.50

NOTICE: Client MUST complete all blanks on the LEFT of the line. Original - LAB; 1st copy - CLIENT; 2nd copy - BWQC; 3rd copy - COUNTY HEALTH DEPT

THE FORM

- Fill out items indicated to the left of the center line except specimen number.
- PWS ID NO.: Your water system number assigned by BWQC.
- Water System Name: Name associated with your PWS ID NO. by BWQC.
- Sample Date: Date sample was taken.
- Sample Type: See sample type code table on front.

- Sample Time: Time sample was taken using 24-hour time system.
For example: 4:30 PM = 16:30 8:15 AM = 08:15
- Location Name: Place where sample was taken.
- Collected By: Name of person taking sample.
- Mailing Name and Address of Report: Where client copy of report should be sent.

- All items should be completed to insure proper crediting of analysis to your system by Bureau of Water Quality Control -

THE SAMPLE

- Use only the sterilized bottle provided in the sampling kit.
- Take all drinking water samples from the cold water tap with a smooth, clean faucet. Remove any spray attachment, strainer, diffuser or screen from outlet. Do not sample faucets whenever there is a strong wind or rain.
- Do not open sterile bottle until moment sample is taken. Do not rinse sample bottle as it contains a dechlorinating agent.
- Turn on tap and allow to run at least 60 seconds, longer for seldomly used outlets.
- Fill sample bottle to fill line only, being careful not to touch top inside portion of bottle with hands. Do not place lid on contaminated surfaces.
- Cap bottle securely. Mail immediately after sampling via First Class Mail. Bacteriological samples must be received no later than 30 hours after collection.

THE RESULTS

MPN - Water samples analyzed using the multiple tube procedure (method 305) determine the Most Probable Number (MPN) of Coliforms per 100 ml of water.

MF - Water samples analyzed using the membrane filter procedure (method 303) determine the number of Coliform colonies found per 100 ml of water.

# Positive Tubes	Pass/Fail	MPN/100 ml
0	Pass	Less than 2.2
1	Pass	2.2
2	Pass	5.1
3	Pass	9.2
4	Fail	16.0
5	Fail	Greater than 16.0

# Coliform Colonies	Pass/Fail
0 - 4	Pass
5 or more	Fail

In case of sample failure, the owner or operator of the water system should immediately collect a check sample from the sampling point showing contamination. Check samples should be submitted no later than five days.



**SUMMARY OF FIELD DATA OBTAINED AT THE
CANYON MINE MONITOR/SUPPLY WELL
ON JUNE 28, 1988**

1. Pre-pumping water level in the well was measured using an air line at 12:15. Energy Fuels Nuclear reported that the bottom of the air line is set in the well at a depth of 2,962.7 feet below land surface. An air pressure of 174.5 pounds per square inch was measured with the air line. This air pressure corresponds to a pre-pumping water level of 2,559.6 feet below land surface.
2. The weather was warm and cloudy. The pump was started at 12:27 and had been shut off for two to three days. Pumping rate was about 40 gallons per minute and groundwater samples for laboratory chemical analyses were obtained from the well at about 14:30. Therefore, approximately 4,900 gallons of water had been pumped from the well prior to sampling. One theoretical borehole volume is about 1,320 gallons.
3. Groundwater samples were obtained from a hose bib on the discharge line, which leads to a large storage tank. Field measurements for the groundwater sampled were:
 - pH = 7.47 (using a pH meter)
 - specific electrical conductance = 430 micromhos per centimeter
 - water temperature = 24.5 degrees Celsius
4. Groundwater samples were preserved and put on ice immediately after collection. Groundwater samples for radiometric and trace constituent analyses were preserved with nitric acid. Groundwater samples for phosphate and nitrate analyses were preserved with sulfuric acid. Groundwater samples for routine analyses were filtered.

August __, 1988

Miguel Santiago, Environmental Health Specialist
Water Permits Unit
ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY
2005 North Central Avenue
Phoenix, Arizona 85004

RE: REQUEST FOR EXTENSION FOR SUBMITTAL OF ANALYTICAL RESULTS
GROUNDWATER QUALITY PROTECTION PERMIT NO. G-0004-03

Dear Mr. Santiago:

In accordance with your instructions given on August 22, 1988, via telephone to Bill Victor, Errol L. Montgomery & Associates, Inc., this letter has been prepared to request an extension of the due date for submittal to you of results for radiometric analyses for groundwater samples obtained from the Canyon Mine monitor/supply well on June 28, 1988. The permit requires that results of laboratory chemical analyses for samples obtained during April, May, or June be submitted to you by August 28. We request an extension because results for the radiometric analyses have not yet been received from the laboratory. We request an extension of 30 days to allow for our receipt of the laboratory results and for a standard quality assurance review prior to submittal to you.

We will submit results for all other laboratory chemical analyses required for the well within the permit schedule. Field measurements for water quality will also be submitted on schedule.

If you have questions or require further discussion, please contact me.

Very truly yours,
ENERGY FUELS NUCLEAR, INC.

William Almas

SENT VIA FEDERAL EXPRESS

cc: B. Doores
R. Munson
L. Casebolt
W. Victor



energy fuels nuclear, inc.

one labor center • suite 2500
1200 seventeenth street • denver, colorado 80202

(303) 623-8317
twx 910-931-2561

February 28, 1990

Ms. Abigail A. Myers
Environmental Program Specialist
Water Permits Unit
Arizona Department of Environmental Quality
2005 North Central Avenue
Phoenix, Arizona 85004

RE: Canyon Mine Groundwater Protection Permit
No. G-0004-03

Dear Ms. Myers:

Enclosed please find the Fourth Quarter, 1989 Analytical Results from the Canyon Mine monitor well. The Sample is identified as CN-058 on the attached analysis sheet. The well was sampled on December 30, 1989. Samples were obtained following procedures outlined in the Groundwater Protection Permit. Analysis was performed for the comprehensive list of parameters given in Part II. B.2.b. of the Groundwater Protection Permit.

No shaft development or mining activity has taken place since issuance of the Groundwater Protection Permit on May 23, 1988. No substantive changes in the site layout have occurred during the period May 23, 1988 to present. Therefore, water quality is still part of Phase I (Pre-Mining) record keeping.

If you have any questions concerning this matter, please contact me at our Denver office.

Sincerely,

William J. Almas
Environmental Coordinator

WJA/pl
Enclosures

cc: R. A. Munson
R. B. Smith



BARRINGER LABORATORIES INC.

15000 W. 6TH AVE., SUITE 300
GOLDEN, COLORADO 80401
PHONE: (303) 277 1687

1455 DEMING WAY, SUITE 15
SPARKS, NEVADA 89431
PHONE: (702) 358-1158

9-Feb-90

Bill Almas
ENERGY FUELS CORPORATION
One Tabor Center
1200-17th St.
Suite 2500
Denver, CO 80202

Page: 1
Copy: 1 of 3
Set: 1

Sampled: 30-DEC-89
Received: 5-Jan-90

Attn:
Project: Purchase order :

Job: 901779E Status: Final

Sample Type: Water

Sample	HCO3 as CaCO3 mg/l	NH4 as N mg/l	As mg/l	Ba Diss. mg/l	CO3 as CaCO3 mg/l	Cd Diss. mg/l	Ca Diss. mg/l
WS-057	84	<0.1	0.005	<0.01	<0.5	<0.005	482
CN-058	212	<0.1	0.001	0.07	<0.5	<0.005	44.3

Sample	Cl mg/l	Cr Diss. mg/l	Conductance µmho/cm	Cu Diss. mg/l	F mg/l	Fe Diss. mg/l	Pb Diss. mg/l	Mg Diss. mg/l
WS-057	47	<0.01	3213	<0.01	0.9	0.13	<0.02	205
CN-058	8	<0.01	464	<0.01	0.3	0.12	<0.02	30.3

Sample	Mn Diss. mg/l	Hg Diss. mg/l	pH unit	PO4 as P mg/l	K Diss. mg/l	Se Diss. mg/l	SiO2 Diss. mg/l	Ag Diss. mg/l
WS-057	<0.01	<0.0002	7.52	<0.1	11.8	0.048	12.5	<0.01
CN-058	0.04	<0.0002	7.53	<0.1	2.4	0.002	9.9	<0.01

Sample	Na Diss. mg/l	TDS mg/l	SO4 mg/l	Zn Diss. mg/l	Gross Alpha Dissolved pCi/l	Error 2σ*
WS-057	54.2	3150	2150	5.97		32 ±17
CN-058	.014	224	18	0.046		19 ±4

Sample	Gross Beta Dissolved pCi/l	Error 2σ*	Ra-226 Dissolved pCi/l	Error 2σ*	Th-230 Dissolved pCi/l	Error 2σ*
WS-057		36 ±10		0.1 ±0.2		0.2 ±0.4
CN-058		5.9 ±1.7		1.3 ±0.4		0.0 ±0.3



BARRINGER LABORATORIES INC.

15000 W. 6TH AVE., SUITE 300
GOLDEN, COLORADO 80401
PHONE: (303) 277 1687

1455 DEMING WAY, SUITE 15
SPARKS, NEVADA 89431
PHONE: (702) 358-1158

9-Feb-90

Bill Almas
ENERGY FUELS CORPORATION
One Tabor Center
1200-17th St.
Suite 2500
Denver, CO 80202

Page: 2
Copy: 1 of 3
Set : 1

Attn:
Project:

Purchase order :

Received: 5-Jan-90

Job: 901779E

Status: Final

Sample Type: Water

Sample	U Dissolved mg/l	U Total mg/l
WS-057	0.019	0.019
CN-058	0.016	0.017



15000 W. 6TH AVE., SUITE 300
GOLDEN, COLORADO 80401
PHONE: (303) 277-1687

1455 DEMING WAY, SUITE 15
SPARKS, NEVADA 89431
PHONE: (702) 358-1158
9-Feb-90

Bill Almas
ENERGY FUELS CORPORATION
One Tabor Center
1200-17th St.
Suite 2500
Denver, CO 80202

Page: 3
Copy: 1 of 3
Set: 1

Attn:
Project:

Received: 5-Jan-90
Purchase order :

Job: 901779E

Status: Final

Abbreviations:

Analyses:

HCO3	: Bicarbonate
NH4 as N	: Ammonia
As	: Arsenic
Ba	: Barium
CO3	: Carbonate
Cd	: Cadmium
Ca	: Calcium
Cl	: Chloride
Cr	: Chromium
Cu	: Copper
F	: Fluoride
Fe	: Iron
Pb	: Lead
Mg	: Magnesium
Mn	: Manganese
Hg	: Mercury
PO4 as P	: Phosphate
K	: Potassium
Se	: Selenium
SiO2	: Silica
Ag	: Silver
Na	: Sodium
TDS	: Total Dissolved Solids
SO4	: Sulfate
Zn	: Zinc
Ra-226	: Radium-226
Th-230	: Thorium-230
U	: Uranium



BARRINGER LABORATORIES INC.

15000 W. 6TH AVE., SUITE 300
GOLDEN, COLORADO 80401
PHONE: (303) 277-1687

1455 DEMING WAY, SUITE 15
SPARKS, NEVADA 89431
PHONE: (702) 358-1158

9-Feb-90

Bill Almas
ENERGY FUELS CORPORATION
One Tabor Center
1200-17th St.
Suite 2500
Denver, CO 80202

Page: 4
Copy: 1 of 3
Set : 1

Attn: Project: Purchase order : Received: 5-Jan-90
Job: 901779E Status: Final

Abbreviations:

Units:

- mg/l : milligrams per liter
- μmho/cm : micromhos per centimeter at 25C
- pCi/l : picoCuries per liter
- 2σ* : * Counting error at the 95% confidence level, 2σ

Quality control:

< : less than

Signed:

.....*Gary Zito*.....
Gary Zito
Laboratory Supervisor



BARRINGER LABORATORIES INC.

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9-Feb-90

Bill Almas
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Suite 2500
Denver, CO 80202

Page: 5
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Attn: Project: Job: 901779E
Purchase order :
Received: 5-Jan-90
Status: Final

QUALITY CONTROL DATA SHEET

Time Received: 9:00 Date: 1/5/90 By: T. Moncrief Via: UPS

Sample Container Type: large cube
Sample Type: water

Preservative When Received: 1. HNO3 2. H2SO4 3. None 4. NAOH/Zn Ac
Additional Lab Preparation: none

Parameter	Ref	Method	LLD	Preservative	Analyst	Date(s) of Analysis
Cl	1	325.2	1 mg/l	3	Hobbs	1/10
NH4	1	350.1	.1 mg/l	2	Hobbs	1/11
Conductance	1	1201	.001 mg/l	3	Ryman	1/11
F	1	340.2	.05 mg/l	3	Ryman	1/11
pH	1	150.1	.01 mg/l	3	Ryman	1/11
TDS	1	160.1	10 mg/l	3	Acree	1/12
HCO3asCaCO3	1	210.1	1 mg/l	3	Acree	1/15
PO4	1	365.1	.1 mg/l	3	Hobbs	1/25
Ba	1	200.7	.01 mg/l	1	Hidalgo	1/26
Cd	1	200.7	.005 mg/l	1	Hidalgo	1/26
Ca	1	200.7	.01 mg/l	1	Hidalgo	1/26
Cr	1	200.7	.01 mg/l	1	Hidalgo	1/26
Cu	1	200.7	.01 mg/l	1	Hidalgo	1/26
Fe	1	200.7	.01 mg/l	1	Hidalgo	1/26
Pb	1	200.7	.001 mg/l	1	Hidalgo	1/26
Mg	1	200.7	.01 mg/l	1	Hidalgo	1/26
Mn	1	200.7	.01 mg/l	1	Hidalgo	1/26
K	1	200.7	.5 mg/l	1	Hidalgo	1/26
SiO2	1	200.7	.01 mg/l	1	Hidalgo	1/26
Ag	1	200.7	.01 mg/l	1	Hidalgo	1/26
As	1	206.2	.001 mg/l	1	Gilleland	1/31
Se	1	270.2	.001 mg/l	1	Gilleland	1/30
Hg	1	245.1.0002	mg/l	1	Swanson	2/1



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9-Feb-90

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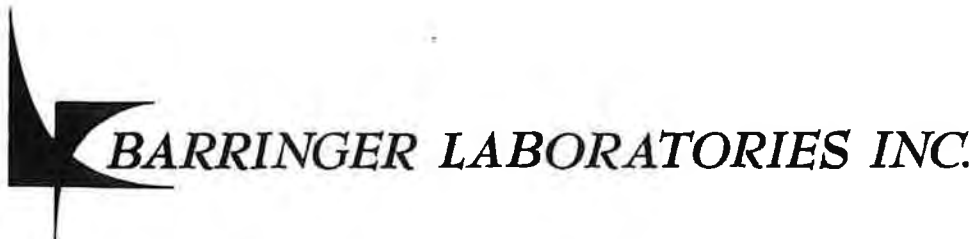
Attn: Project: Purchase order : Received: 5-Jan-90
Job: 901779E Status: Final

QUALITY CONTROL DATA SHEET (Cont'd)

Parameter	Ref	Method	LLD	Preservatives	Analyst	Date(s) of Analysis
SO4	1	375.3	5 mg/l	3	Acree	1/12
Na	1	200.7	.01 mg/l	1	Hidalgo	1/26
Zn	1	200.7	.005 mg/l	1	Hidalgo	1/26
TDS	1	160.1	10 mg/l	3	Acree	1/12
Gr. Alpha	4	900.0	1.0 pCi/l	3	Kidwell	1/11-1/22
Gr. Beta	4	900.0	2.0 pCi/l	3	Kidwell	1/11-1/22
Ra-226	4,7,14	SM-705	0.2 pCi/l	3	Howard	1/16-1/18
Th-230	11	---	0.2 pCi/l	3	Ortiz	1/10-1/12
U	4,9,10,14	ASTMD2907	0.3 µg/l	3	Krizman	1/10-1/12

DUPLICATES

Sample Identification	Parameter	Result	Result	Relative Deviation % From Mean
CN-058	Cl	7.9	7.9	0
"	NH4	<.1	<.1	0
"	F	.30	.29	3
"	TDS	224	216	4
WS-057	HCO3	83.6	81.6	2
CN-058	PO4	<.1	<.1	0
"	Ba	.07	.07	0
"	Cd	<.005	<.005	0
"	Ca	44.3	42.7	3.6
"	Cr	<.01	<.01	0
"	Cu	<.01	<.01	0
"	Fe	.12	.11	9
"	Pb	<.02	<.02	0
"	Mg	30.2	29.9	1.0
"	Mn	.04	.03	---
"	K	2.4	2.1	---
"	SiO2	9.9	9.7	2.0
"	Ag	<.01	<.01	0



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9-Feb-90

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Attn: Project: Job: 901779E
 Purchase order :
 Received: 5-Jan-90
 Status: Final

DUPLICATES (Cont'd)

Sample Identification	Parameter	Result	Result	Relative Deviation % From Mean
CN-058	As	.001	.001	0
"	Se	.0482	.051	6
"	Hg	<.0002	<.0002	0
"	SO4	18	17	6
"	Na	5.97	5.98	0.2
"	Zn	.046	.004	4.3
"	TDS	224	216	4
WS-057	Ra-226	0.1 ± 0.2	0.1 ± 0.1	0
CN-058	Ra-226	1.0 ± 0.3	1.6 ± 0.4	23

QUALITY CONTROL STANDARDS

Parameter	Result	Cert. Result	Target Range	Relative Deviation % From Known	Spike % Recovery
Cl	24.8	26.05	24.1 - 27.7	5	88
NH4	2.08	1.98	1.78 - 2.18	5	---
F	.51	.50	.45 - .55	2	---
TDS	1484	1479	1331 - 1627	.3	---
PO4	.49	.50	.46 - .54	2	---
Ba	.99	1.00	.90 - 1.10	1.0	99
Cd	.215	.200	.180 - .220	7.5	105
Ca	.214	.200	.180 - .220	7.0	---
Cr	.210	.200	.180 - .220	5.0	103
Cu	.202	.200	.180 - .220	1.0	100
Fe	.210	.200	.180 - .220	5.0	112
Pb	.206	.200	.180 - .220	3.0	102
Mg	.210	.200	.180 - .220	5.0	---
Mn	.212	.200	.180 - .220	6.0	103
K	10.2	10.0	9.0 - 11.0	2.0	104
SiO2	1.00	1.07	.96 - 1.18	6.9	114



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9-Feb-90

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Denver, CO 80202

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Received: 5-Jan-90
Status: Final

Job: 901779E

QUALITY CONTROL STANDARDS (Cont'd)

Parameter	Result	Cert. Result	Target Range	Relative Deviation % From Known	Spike % Recovery
Ag	.95	1.00	.90 - 1.10	5.0	100
As	.100	.100	.080 - .118	0	---
Se	.021	.025	.017 - .028	17	---
Hg	.005	.005	.004 - .006	0	80
SO4	1060	1000	900 - 1100	6	---
Na	.85	.86	.76 - .96	1.0	92
Zn	.214	.200	.180 - .220	7.0	106
TDS	1484	1479	1331 - 1627	.3	---
Gr. Alpha	115 ± 3	110	99 - 121	4.6	---
Gr. Beta	172 ± 2	173	156 - 190	0.6	---
Ra-226	101 ± 3	101	96 - 106	0.0	---
Th-230	100 ± 3	99	94 - 104	1.0	---
U	33	34	32 - 36	2.9	---

Approved by: *Am Site*

cc: Larry Casebolt, ENERGY FUELS NUCLEAR

the 1990s, the number of people with a psychiatric diagnosis has increased in the UK (Meltzer *et al.* 1998). This increase has been attributed to a number of factors, including a change in the way in which mental health problems are defined and diagnosed (Meltzer *et al.* 1998), and a change in the way in which mental health problems are treated (Meltzer *et al.* 1998).

The increase in the number of people with a psychiatric diagnosis has also led to a corresponding increase in the number of people who are in contact with mental health services (Meltzer *et al.* 1998). This increase has led to a corresponding increase in the number of people who are in contact with mental health services (Meltzer *et al.* 1998). This increase has led to a corresponding increase in the number of people who are in contact with mental health services (Meltzer *et al.* 1998).

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The increase in the number of people with a psychiatric diagnosis has also led to a corresponding increase in the number of people who are in contact with mental health services (Meltzer *et al.* 1998).



energy fuels nuclear, inc.

one labor center • suite 2500
1200 seventeenth street • denver, colorado 80202

(303) 623-8317
twx 910-931-2561

CF

July 3, 1990

Compliance and Enforcement
Water Permits Unit
Arizona Department of Environmental Quality
2005 North Central Avenue
Phoenix, Arizona 85004

Re: Canyon Mine Groundwater Protection Permit
#G-0004-03

Ladies/Gentlemen:

Enclosed please find the First Quarter, 1990 analytical results from the Canyon Mine monitor well. Samples were obtained following procedures outlined in the Groundwater Protection Permit. Analysis was performed for the comprehensive list of parameters given in Part II.B.2.b. of the Groundwater Protection Permit.

No shaft development or mining activity has taken place since issuance of the Groundwater Protection Permit on May 23, 1988. No substantive changes in the site layout have occurred during the period May 23, 1988 to the present. Therefore water quality is still part of Phase I (Premining) record keeping.

If you have questions concerning this matter, please contact me at our Denver office.

Sincerely,

William J. Almas
Environmental Coordinator

WJA:vrc
Enclosure



BARRINGER LABORATORIES INC.

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SPARKS, NEVADA 89431
PHONE: (702) 368 1158

17-May-90

Larry Casebolt
ENERGY FUELS NUCLEAR
P.O. Box 36
Fredonia, AZ 86022

Page: 1
Copy: 2 of 3
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Attn:
Project:

PO #:

Sampled 30-Mar-90
Received: 4-Apr-90 15:01

Job: 902192E

Status: Final

Sample Id	Ag Dissolved mg/l	As Dissolved mg/l	Ba Dissolved mg/l	Ca Dissolved mg/l	Cd Dissolved mg/l
CN063 (3-30-90)	<0.01	<0.001	0.15	58.3	<0.005

Sample Id	Cr Total mg/l	Cu Dissolved mg/l	F mg/l	Fe Dissolved mg/l	Pb Dissolved mg/l	Mg Dissolved mg/l
CN063 (3-30-90)	<0.01	0.03	0.3	0.11	<0.02	34.9

Sample Id	Mn Dissolved mg/l	Hg Dissolved mg/l	K Dissolved mg/l	Se Dissolved mg/l	Na Dissolved mg/l
CN063 (3-30-90)	0.04	<0.0002	2.8	<0.001	8.12

Sample Id	Zn Dissolved mg/l	Alkalinity as CaCO3 mg/l	HCO3 as CaCO3 mg/l	CO3 as CaCO3 mg/l	Cl mg/l	pH unit
CN063 (3-30-90)	0.058	212	212	<1	6	7.27

Sample Id	Specific Conductance μ mho/cm	TDS mg/l	TSS mg/l	NO3 as N mg/l	NH4 as N mg/l	PO4 as P mg/l
CN063 (3-30-90)	444	190	<4	<0.1	<0.1	<0.1

Sample Id	SO4 mg/l	SiO2 Dissolved mg/l	Gross Alpha Error Dissolved pCi/l	2 σ *	Gross Beta Error Dissolved pCi/l	2 σ *
CN063 (3-30-90)	14	10.9	19 \pm 4		8.9 \pm 1.9	

Sample Id	Gross Alpha Error Total pCi/l	2 σ *	Gross Beta Error Total pCi/l	2 σ *	Ra-226 Dissolved pCi/l	Error 2 σ *
CN063 (3-30-90)	15 \pm 4		9.2 \pm 2.0		1.6 \pm 0.5	



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17-May-90

Larry Casebolt
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 P.O. Box 36
 Fredonia, AZ 86022

Page: 2
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Attn:
 Project:

PO #:

Received: 4-Apr-90 15:01

Job: 902192E Status: Final

Sample Id	Ra-226	Error	Th-230	Error	Th-230	Error	U
	Total		Dissolved		Total		Dissolved
	pCi/l	2σ*	pCi/l	2σ*	pCi/l	2σ*	mg/l
CN063 (3-30-90)	1.8	±0.7	0.2	±0.4	0.4	±0.6	0.013

Sample Id	U
	Total
	mg/l
CN063 (3-30-90)	0.014



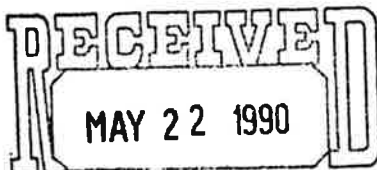
BARRINGER LABORATORIES INC.

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17-May-90

Bill Almas
ENERGY FUELS NUCLEAR
One Tabor Center
1200 17th Street
Suite 2500
Denver, CO 80202



Page: 2
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LANDMARK

Attn:
Project:

PO #:

Received: 4-Apr-90 15:01

Job: 902192E Status: Final

Sample Id	Gross Alpha Total pCi/l	Error 2σ*	Gross Beta Total pCi/l	Error 2σ*	Ra-226 Dissolved pCi/l	Error 2σ*
CN063 (3-30-90)		15 ±4		9.2 ±2.0		1.6 ±0.5

Sample Id	Ra-226 Total pCi/l	Error 2σ*	Th-230 Dissolved pCi/l	Error 2σ*	Th-230 Total pCi/l	Error 2σ*	U Dissolved mg/l
CN063 (3-30-90)		1.8 ±0.7		0.2 ±0.4		0.4 ±0.6	0.013

Sample Id	U Total mg/l
CN063 (3-30-90)	0.014



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17-May-90

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Denver, CO 80202

Page: 3
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Attn:
Project:

PO #:

Received: 4-Apr-90 15:01

Job: 902192E

Status: Final

Abbreviations:

Parameters:

- Ag : Silver
- As : Arsenic
- Ba : Barium
- Ca : Calcium
- Cd : Cadmium
- Cr : Chromium
- Cu : Copper
- F : Fluoride
- Fe : Iron
- Pb : Lead
- Mg : Magnesium
- Mn : Manganese
- Hg : Mercury
- K : Potassium
- Se : Selenium
- Na : Sodium
- Zn : Zinc
- HCO3 : Bicarbonate
- CO3 : Carbonate
- Cl : Chloride
- TDS : Total Dissolved Solids
- TSS : Total Suspended Solids
- NO3 as N : Nitrate
- NH4 as N : Ammonia
- PO4 as P : Phosphate
- SO4 : Sulfate
- SiO2 : Silica
- Ra-226 : Radium-226
- Th-230 : Thorium-230
- U : Uranium



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Attn:
Project:

PO #:

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Job: 902192E

Status: Final

Units:

- mg/l : milligrams per liter
- μ mho/cm : micromhos per centimeter at 25C
- pCi/l : picoCuries per liter
- 2 σ * : * Counting error at the 95% confidence level, 2 σ

Quality control:

< : less than

Signed:

.....*Gary Zito*.....
Gary Zito
Laboratory Supervisor



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17-May-90

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Attn:
Project:

PO #:

Received: 4-Apr-90 15:01

Job: 902192E

Status: Final

QUALITY CONTROL DATA SHEET

Time Received: 3:01 Date: 4/4/90 By: Receiving Via: UPS

Sample Container Type: large cube, liter cube

Sample Type: water

Preservative When Received: 1. HNO3 2. H2SO4 3. None 4. NaOH/ZnoAc

Additional Lab Preparation: none

Parameter	Ref	Method	LLD	Preservative	Analyst	Date(s) of Analysis
F	1	340.2	.05 mg/l	3	Ryman	4/11
pH	1	150.1	.01 mg/l	3	Ryman	4/11
Cl	1	325.2	1 mg/l	3	Hobbs	4/11
Alk	1	210.1	1 mg/l	3	Ryman	4/20
Cond.	1	1201	.001 mg/l	3	Ryman	4/23
Hg	1	245.1	.0002 mg/l	1	Swanson	4/30
Ag	1	200.7	.01 mg/l	1	Hidalgo	5/1
Ba	1	200.7	.01 mg/l	1	Hidalgo	5/1
Ca	1	200.7	.01 mg/l	1	Hidalgo	5/1
Cd	1	200.7	.005 mg/l	1	Hidalgo	5/1
Cr	1	200.7	.01 mg/l	1	Hidalgo	5/1
Cu	1	200.7	.01 mg/l	1	Hidalgo	5/1
Fe	1	200.7	.01 mg/l	1	Hidalgo	5/1
Pb	1	200.7	.02 mg/l	1	Hidalgo	5/1
Mg	1	200.7	.01 mg/l	1	Hidalgo	5/1
Mn	1	200.7	.01 mg/l	1	Hidalgo	5/1
K	1	200.7	.5 mg/l	1	Hidalgo	5/1
Na	1	200.7	.01 mg/l	1	Hidalgo	5/1
Zn	1	200.7	.005 mg/l	1	Hidalgo	5/1
SiO2	1	200.7	.01 mg/l	1	Hidalgo	5/1



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QUALITY CONTROL DATA SHEET (Cont'd)

Parameter	Ref	Method	LLD	Preservative	Analyst	Date(s) of Analysis
Se	1	270.2	.001 mg/l	1	Gilleland	5/11
As	1	206.2	.001 mg/l	1	Gilleland	5/14
NH4	1	350.1	.1 mg/l	2	Hobbs	4/10
NO3	1	353.1	.1 mg/l	2	Hobbs	4/10
PO4	1	365.1	.1 mg/l	3	Hobbs	4/16
TSS	1	160.2	4 mg/l	3	Hatcher	4/20
TDS	1	160.1	10 mg/l	3	Hatcher	4/23
SO4	1	375.3	4 mg/l	3	Hatcher	4/23
Gr. Alpha	4	900.0	1.0 pCi/l	3	Kidwell	4/19-5/3
Gr. Beta	4	900.0	2.0 pCi/l	3	Kidwell	4/19-5/3
Ra-226	4,7,14	SM-705	0.2 pCi/l	3	Howard	4/18-4/20
Th-230	11	---	0.2 pCi/l	3	Ortiz	4/10-4/11
U	4,9,10,14	ASTMD2907	0.3 µg/l	3	Tonning	5/7-5/8



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17-May-90

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Page: 7
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Attn: Project: PO #: Received: 4-Apr-90 15:01

Job: 902192E Status: Final

QUALITY CONTROL DATA SHEET (Cont'd)

DUPLICATES

Sample Identification	Parameter	Result	Result	Relative Deviation % From Mean
CN063 (3-30-90)	Cl	6.4	6.4	0
" "	Alk	212	212	0
" "	Cond.	444	445	.2
" "	Hg	<.0002	<.0002	0
" "	Ag	<.01	<.01	0
" "	Ba	.15	.15	0
" "	Ca	58.3	58.3	0
" "	Cd	<.005	<.005	0
" "	Cr	<.01	<.01	0
" "	Cu	.03	.03	0
" "	Fe	.11	.11	0
" "	Pb	<.02	<.02	0
" "	Mg	34.9	34.6	0.9
" "	Mn	.04	.04	0
" "	K	2.8	2.8	0
" "	Na	8.12	8.05	0.9
" "	Zn	.058	.057	1.7
" "	SiO2	10.9	10.9	0
" "	Se	<.001	<.001	0
" "	As	<.001	<.001	0
" "	NH4	<.1	<.1	0
" "	NO3	<.1	<.1	0
" "	PO4	<.1	<.1	0
" "	TSS	<4	<4	0
" "	TDS	194	204	5.0
" "	SO4	14	15	6.9
" "	Ra-226(D)	1.6 ± 0.5	1.6 ± 0.5	0.0
" "	U(T)	0.013	0.014	3.7

SAMPLE ANALYSIS INFORMATION

Perform those analysis marked with an X and circled

<u>X</u>	Ag	Total <u>Dissolved</u> Suspended	<u>X</u>	pH	
<u>X</u>	As	Total <u>Dissolved</u> Suspended	<u>X</u>	Specific Cond. (micromhos per centimeter)	
<u>X</u>	Ba	Total <u>Dissolved</u> Suspended	<u>X</u>	TDS	
—	B	Total Dissolved Suspended	<u>X</u>	TSS	
<u>X</u>	Ca	Total <u>Dissolved</u> Suspended	<u>X</u>	NO ₃ as N	
<u>X</u>	Cd	Total <u>Dissolved</u> Suspended	<u>✓</u>	NH ₄ as N	
<u>X</u>	Cr	<u>Total</u> Dissolved Suspended	<u>X</u>	PO ₄	
<u>X</u>	Cu	Total <u>Dissolved</u> Suspended	<u>X</u>	SO ₄	
<u>X</u>	F	Total <u>Dissolved</u> Suspended	—	SO ₂	
<u>X</u>	Fe	Total <u>Dissolved</u> Suspended	<u>X</u>	SiO ₂	
<u>X</u>	Pb	Total <u>Dissolved</u> Suspended	—		
<u>X</u>	Mg	Total <u>Dissolved</u> Suspended	—		
—	Mo	Total Dissolved Suspended	<u>X</u>	Gross Alpha*	<u>Total</u> <u>Dissolved</u> Suspended
<u>X</u>	Mn	Total <u>Dissolved</u> Suspended	<u>X</u>	Gross Beta*	<u>Total</u> <u>Dissolved</u> Suspended
<u>X</u>	Hg	Total <u>Dissolved</u> Suspended	—	²²⁶ Ra*	Total Dissolved Suspended
<u>X</u>	K	Total <u>Dissolved</u> Suspended	<u>X</u>	²²⁶ Ra*	<u>Total</u> <u>Dissolved</u> Suspended
<u>X</u>	Se	Total <u>Dissolved</u> Suspended	<u>X</u>	Total U _{nat}	<u>Total</u> <u>Dissolved</u> Suspended
<u>X</u>	Na	Total <u>Dissolved</u> Suspended	—	²¹⁰ Pb*	Total Dissolved Suspended
<u>X</u>	Zn	Total <u>Dissolved</u> Suspended	—	²¹⁰ Po*	Total Dissolved Suspended
<u>X</u>	Alkalinity (as carbonate)		—	²³⁴ U*	Total Dissolved Suspended
<u>X</u>	Bicarbonate		—	²³⁵ U*	Total Dissolved Suspended
<u>X</u>	Carbonate		—	²³⁸ U*	Total Dissolved Suspended
<u>X</u>	Chloride		—	²²⁸ Th*	Total Dissolved Suspended
			<u>X</u>	²³⁰ Th*	<u>Total</u> <u>Dissolved</u> Suspended
			—	²³² Th*	Total Dissolved Suspended
			—	⁴⁰ K*	Total Dissolved Suspended

*Units are mg/l unless otherwise noted

*Units are pCi/l

the 1990s, the number of publications on the topic has increased steadily, and the number of authors has increased from 1 to 10.

There are a number of reasons for this increase. First, the topic has become more relevant for researchers in the field of organizational behavior and management. Second, the topic has become more relevant for practitioners in the field of organizational behavior and management. Third, the topic has become more relevant for the general public.

The following sections will discuss the evolution of the topic and the current state of research.

The first section will discuss the evolution of the topic and the current state of research.

The second section will discuss the evolution of the topic and the current state of research.

The third section will discuss the evolution of the topic and the current state of research.

The fourth section will discuss the evolution of the topic and the current state of research.

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The fifteenth section will discuss the evolution of the topic and the current state of research.

The sixteenth section will discuss the evolution of the topic and the current state of research.

The seventeenth section will discuss the evolution of the topic and the current state of research.

The eighteenth section will discuss the evolution of the topic and the current state of research.

The nineteenth section will discuss the evolution of the topic and the current state of research.

The twentieth section will discuss the evolution of the topic and the current state of research.

The twenty-first section will discuss the evolution of the topic and the current state of research.

The twenty-second section will discuss the evolution of the topic and the current state of research.

The twenty-third section will discuss the evolution of the topic and the current state of research.

May 09, 2017

Report to:
Kathy Weinel
Energy Fuels Resources (USA) Inc.
225 Union Blvd. , Suite 600
Lakewood, CO 80228

Bill to:
Accounts Payable
Energy Fuels Resources (USA) Inc.
225 Union Blvd. , Suite 600
Lakewood, CO 80228

Project ID: March 2017 Canyon Sampling
ACZ Project ID: L35993

Kathy Weinel:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on March 15, 2017. This project has been assigned to ACZ's project number, L35993. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L35993. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after June 08, 2017. If the samples are determined to be hazardous, additional charges apply for disposal (typically \$11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.

S. Habermehl

Scott Habermehl has reviewed
and approved this report.



Energy Fuels Resources (USA) Inc.

May 09, 2017

Project ID: March 2017 Canyon Sampling

ACZ Project ID: L35993

Sample Receipt

ACZ Laboratories, Inc. (ACZ) received 5 ground water samples from Energy Fuels Resources (USA) Inc. on March 15, 2017. The samples were received in good condition. Upon receipt, the sample custodian removed the samples from the cooler, inspected the contents, and logged the samples into ACZ's computerized Laboratory Information Management System (LIMS). The samples were assigned ACZ LIMS project number L35993. The custodian verified the sample information entered into the computer against the chain of custody (COC) forms and sample bottle labels.

Holding Times

All analyses were performed within EPA recommended holding times.

Sample Analysis

These samples were analyzed for inorganic, organic, radiochemistry parameters. The individual methods are referenced on both, the ACZ invoice and the analytical reports. The extended qualifier reports may contain footnotes qualifying specific elements due to QC failures. In addition the following has been noted with this specific project:

1. (N1) TKN. Sample L36058-08 displayed negative dip peak shape and zero percent recovery of associated spike L36058-08LFM when prepped at 1X and was redigested. All associated samples with this spike were redigested as well as a result of the zero percent recovery. L36058-08 was again spiked at prep, however the sample was prepped on a 5X dilution to see if less of the interfering sample matrix used at prep would result in better spike recovery. 5X dilution runs again displayed the same negative dip peak shape and zero percent recovery of the spike, attributed to some matrix interference. All other instrument and batch QC associated with this sample is in expected ranges, and all other samples associated with this spike displayed normal peak shape or a flat baseline (L35993-01, L35993-02, L35993-03, L35993-04, L35993-05, L36058-09/DUP, L36058-10, L36058-11, L36058-12).

Energy Fuels Resources (USA) Inc.

Project ID: March 2017 Canyon Sampli
 Sample ID: DW WELL

ACZ Sample ID: **L35993-05**
 Date Sampled: 03/14/17 07:00
 Date Received: 03/15/17
 Sample Matrix: Ground Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Nitrogen, total Kjeldahl	M351.2 - Block Digestor								03/27/17 11:33	spl
Total Recoverable Digestion	M200.2 ICP-MS								03/16/17 14:05	enb
Total Recoverable Digestion	M200.2 ICP								03/16/17 13:30	gss

Energy Fuels Resources (USA) Inc.

Project ID: March 2017 Canyon Sampli
 Sample ID: DW WELL

ACZ Sample ID: **L35993-05**
 Date Sampled: 03/14/17 07:00
 Date Received: 03/15/17
 Sample Matrix: Ground Water

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, total recoverable	M200.7 ICP	1		U		mg/L	0.03	0.2	03/17/17 12:36	gss
Antimony, total recoverable	M200.8 ICP-MS	1		U		mg/L	0.0004	0.002	03/21/17 16:37	enb
Arsenic, total recoverable	M200.8 ICP-MS	1	0.0037			mg/L	0.0002	0.001	03/22/17 12:34	mfm
Barium, total recoverable	M200.7 ICP	1	0.073			mg/L	0.003	0.02	03/17/17 12:36	gss
Beryllium, total recoverable	M200.8 ICP-MS	1		U		mg/L	0.00005	0.0003	03/21/17 16:37	enb
Boron, total recoverable	M200.7 ICP	1	0.04	B		mg/L	0.01	0.05	03/17/17 12:36	gss
Cadmium, total recoverable	M200.8 ICP-MS	1		U		mg/L	0.0001	0.0005	03/21/17 16:37	enb
Calcium, total recoverable	M200.7 ICP	1	39.3			mg/L	0.1	0.5	03/17/17 12:36	gss
Chromium, total recoverable	M200.7 ICP	1		U		mg/L	0.01	0.05	03/17/17 12:36	gss
Cobalt, total recoverable	M200.8 ICP-MS	1	0.00027	B		mg/L	0.00005	0.0003	03/21/17 16:37	enb
Copper, total recoverable	M200.7 ICP	1	0.02	B		mg/L	0.01	0.05	03/17/17 12:36	gss
Iron, total recoverable	M200.7 ICP	1	2.92			mg/L	0.02	0.05	03/17/17 12:36	gss
Lead, total recoverable	M200.8 ICP-MS	1	0.0328			mg/L	0.0001	0.0005	03/22/17 12:34	mfm
Magnesium, total recoverable	M200.7 ICP	1	28.2			mg/L	0.2	1	03/17/17 12:36	gss
Manganese, total recoverable	M200.7 ICP	1	0.107			mg/L	0.005	0.03	03/17/17 12:36	gss
Mercury, total	M245.1 CVAA	1		U		mg/L	0.0002	0.001	03/31/17 12:58	pta
Molybdenum, total recoverable	M200.8 ICP-MS	1	0.0011	B		mg/L	0.0005	0.003	03/21/17 16:37	enb
Nickel, total recoverable	M200.7 ICP	1	0.022	B		mg/L	0.008	0.04	03/17/17 12:36	gss
Potassium, total recoverable	M200.7 ICP	1	2.1			mg/L	0.2	1	03/17/17 12:36	gss
Selenium, total recoverable	M200.8 ICP-MS	1	0.0028			mg/L	0.0001	0.0003	03/21/17 16:37	enb
Silver, total recoverable	M200.8 ICP-MS	1	0.00013	B		mg/L	0.00005	0.0003	03/21/17 16:37	enb
Sodium, total recoverable	M200.7 ICP	1	5.6			mg/L	0.2	1	03/17/17 12:36	gss
Thallium, total recoverable	M200.8 ICP-MS	1		U		mg/L	0.0001	0.0005	03/21/17 16:37	enb
Tin, total recoverable	M200.7 ICP	1		U		mg/L	0.04	0.2	03/17/17 12:36	gss
Uranium, dissolved	M200.8 ICP-MS	1	0.0146			mg/L	0.0001	0.0005	03/29/17 18:34	enb
Uranium, total recoverable	M200.8 ICP-MS	1	0.0201			mg/L	0.0001	0.0005	03/21/17 16:37	enb
Vanadium, total recoverable	M200.7 ICP	1		U		mg/L	0.005	0.03	03/17/17 12:36	gss
Zinc, total recoverable	M200.7 ICP	1	0.03	B		mg/L	0.01	0.05	03/17/17 12:36	gss

Energy Fuels Resources (USA) Inc.
 Project ID: March 2017 Canyon Sampli
 Sample ID: DW WELL

ACZ Sample ID: **L35993-05**
 Date Sampled: 03/14/17 07:00
 Date Received: 03/15/17
 Sample Matrix: Ground Water

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	194			mg/L	2	20	03/17/17 0:00	abd
Carbonate as CaCO3		1	14.6	B		mg/L	2	20	03/17/17 0:00	abd
Hydroxide as CaCO3		1		U		mg/L	2	20	03/17/17 0:00	abd
Total Alkalinity		1	208			mg/L	2	20	03/17/17 0:00	abd
Chemical Oxygen Demand	M410.4	1		U	*	mg/L	10	20	03/17/17 12:41	emk
Chloride	M300.0 - Ion Chromatography	1	6.46			mg/L	0.5	2.5	03/30/17 12:30	bsu
Conductivity @25C	SM2510B	1	426			umhos/cm	1	10	03/17/17 0:32	abd
Fluoride	M300.0 - Ion Chromatography	1	0.29		*	mg/L	0.05	0.25	03/30/17 12:30	bsu
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1		U		mg/L	0.02	0.1	03/30/17 22:54	pjb
Nitrogen, ammonia	M350.1 Auto Salicylate w/gas diffusion	1		U		mg/L	0.05	0.2	03/17/17 14:05	bce
Nitrogen, organic	M351.2 & M350.1 - TKN minus NH3			U		mg/L	0.1	0.5	05/09/17 0:00	calc
Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	1		U	*	mg/L	0.1	0.5	03/29/17 22:42	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	230			mg/L	10	20	03/16/17 9:23	keh
Residue, Non-Filterable (TSS) @105C	SM2540D	1	8.0	B	*	mg/L	5	20	03/16/17 10:58	keh
Sulfate	M300.0 - Ion Chromatography	1	18.7			mg/L	0.5	2.5	03/30/17 12:30	bsu
Sulfide as S	SM4500S2-D	1		U	*	mg/L	0.02	0.1	03/15/17 15:09	emk

Arizona license number: **AZ0102**

Report Header Explanations

<i>Batch</i>	A distinct set of samples analyzed at a specific time
<i>Found</i>	Value of the QC Type of interest
<i>Limit</i>	Upper limit for RPD, in %.
<i>Lower</i>	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
<i>MDL</i>	Method Detection Limit. Same as Minimum Reporting Limit unless omitted or equal to the PQL (see comment #5). Allows for instrument and annual fluctuations.
<i>PCN/SCN</i>	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
<i>PQL</i>	Practical Quantitation Limit. Synonymous with the EPA term "minimum level".
<i>QC</i>	True Value of the Control Sample or the amount added to the Spike
<i>Rec</i>	Recovered amount of the true value or spike added, in % (except for LCSS, mg/Kg)
<i>RPD</i>	Relative Percent Difference, calculation used for Duplicate QC Types
<i>Upper</i>	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
<i>Sample</i>	Value of the Sample of interest

QC Sample Types

<i>AS</i>	Analytical Spike (Post Digestion)	<i>LCSWD</i>	Laboratory Control Sample - Water Duplicate
<i>ASD</i>	Analytical Spike (Post Digestion) Duplicate	<i>LFB</i>	Laboratory Fortified Blank
<i>CCB</i>	Continuing Calibration Blank	<i>LFM</i>	Laboratory Fortified Matrix
<i>CCV</i>	Continuing Calibration Verification standard	<i>LFMD</i>	Laboratory Fortified Matrix Duplicate
<i>DUP</i>	Sample Duplicate	<i>LRB</i>	Laboratory Reagent Blank
<i>ICB</i>	Initial Calibration Blank	<i>MS</i>	Matrix Spike
<i>ICV</i>	Initial Calibration Verification standard	<i>MSD</i>	Matrix Spike Duplicate
<i>ICSAB</i>	Inter-element Correction Standard - A plus B solutions	<i>PBS</i>	Prep Blank - Soil
<i>LCSS</i>	Laboratory Control Sample - Soil	<i>PBW</i>	Prep Blank - Water
<i>LCSSD</i>	Laboratory Control Sample - Soil Duplicate	<i>PQV</i>	Practical Quantitation Verification standard
<i>LCSW</i>	Laboratory Control Sample - Water	<i>SDL</i>	Serial Dilution

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method or calibration procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Spikes/Fortified Matrix	Determines sample matrix interferences, if any.
Standard	Verifies the validity of the calibration.

ACZ Qualifiers (Qual)

B	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
L	Target analyte response was below the laboratory defined negative threshold.
U	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

Method References

- (1) EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
- (2) EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
- (3) EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.
- (4) EPA SW-846. Test Methods for Evaluating Solid Waste.
- (5) Standard Methods for the Examination of Water and Wastewater.

Comments

- (1) QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
- (2) Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
- (3) Animal matrices for Inorganic analyses are reported on an "as received" basis.
- (4) An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.
- (5) If the MDL equals the PQL or the MDL column is omitted, the PQL is the reporting limit.

For a complete list of ACZ's Extended Qualifiers, please click:

<http://www.acz.com/public/extquallist.pdf>

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L35993**

Alkalinity as CaCO3 SM2320B - Titration

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG419528													
WG419528PBW1	PBW	03/16/17 15:22				U	mg/L		-20	20			
WG419528LCSW3	LCSW	03/16/17 15:39	WC170224-1	820.0001		782	mg/L	95	90	110			
WG419528LCSW6	LCSW	03/16/17 18:51	WC170224-1	820.0001		800	mg/L	98	90	110			
WG419528PBW2	PBW	03/16/17 18:58				U	mg/L		-20	20			
WG419528LCSW9	LCSW	03/16/17 22:28	WC170224-1	820.0001		805	mg/L	98	90	110			
WG419528PBW3	PBW	03/16/17 22:35				U	mg/L		-20	20			
L35993-03DUP	DUP	03/17/17 0:13			202	215	mg/L				6	20	
L35997-01DUP	DUP	03/17/17 1:57			120	108	mg/L				11	20	
WG419528LCSW12	LCSW	03/17/17 2:14	WC170224-1	820.0001		806	mg/L	98	90	110			
WG419528PBW4	PBW	03/17/17 2:21				U	mg/L		-20	20			
WG419528LCSW15	LCSW	03/17/17 5:28	WC170224-1	820.0001		811	mg/L	99	90	110			

Aluminum, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG419577													
WG419577ICV	ICV	03/17/17 11:42	II170316-1	2		2.038	mg/L	102	95	105			
WG419577ICB	ICB	03/17/17 11:48				U	mg/L		-0.09	0.09			
WG419510LRB	LRB	03/17/17 12:00				U	mg/L		-0.066	0.066			
WG419510LFB	LFB	03/17/17 12:03	II170220-2	1.0013		.99	mg/L	99	85	115			
L35993-02LFM	LFM	03/17/17 12:18	II170220-2	1.0013	.18	1.444	mg/L	126	70	130			
L35993-02LFMD	LFMD	03/17/17 12:21	II170220-2	1.0013	.18	1.318	mg/L	114	70	130	9	20	

Antimony, total recoverable M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG419792													
WG419792ICV	ICV	03/21/17 16:22	MS170301-3	.02		.01989	mg/L	99	90	110			
WG419792ICB	ICB	03/21/17 16:24				U	mg/L		-0.0012	0.0012			
WG419506LRB	LRB	03/21/17 16:26				U	mg/L		-0.00088	0.00088			
WG419506LFB	LFB	03/21/17 16:28	MS170220-2	.009980001		.01085	mg/L	109	85	115			
L35995-01LFM	LFM	03/21/17 16:45	MS170220-2	.009980001	U	.011	mg/L	110	70	130			
L35995-01LFMD	LFMD	03/21/17 16:47	MS170220-2	.009980001	U	.01098	mg/L	110	70	130	0	20	

Arsenic, total recoverable M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG419792													
WG419792ICV	ICV	03/21/17 16:22	MS170301-3	.05		.04974	mg/L	99	90	110			
WG419792ICB	ICB	03/21/17 16:24				U	mg/L		-0.0006	0.0006			
WG419506LRB	LRB	03/21/17 16:26				.0005	mg/L		-0.00044	0.00044			BB
WG419506LFB	LFB	03/21/17 16:28	MS170220-2	.0501		.05085	mg/L	101	85	115			
L35995-01LFM	LFM	03/21/17 16:45	MS170220-2	.0501	.0012	.05555	mg/L	108	70	130			
L35995-01LFMD	LFMD	03/21/17 16:47	MS170220-2	.0501	.0012	.06637	mg/L	130	70	130	18	20	
WG419829													
WG419829ICV	ICV	03/22/17 12:10	MS170301-3	.05		.05048	mg/L	101	90	110			
WG419829ICB	ICB	03/22/17 12:13				U	mg/L		-0.0006	0.0006			
WG419506LRB	LRB	03/22/17 12:16				U	mg/L		-0.00044	0.00044			
WG419506LFB	LFB	03/22/17 12:19	MS170220-2	.0501		.04975	mg/L	99	85	115			
L35995-01LFM	LFM	03/22/17 12:41	MS170220-2	.0501	.001	.05068	mg/L	99	70	130			
L35995-01LFMD	LFMD	03/22/17 12:43	MS170220-2	.0501	.001	.05168	mg/L	101	70	130	2	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L35993**

Barium, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG419577													
WG419577ICV	ICV	03/17/17 11:42	II170316-1	2		1.9452	mg/L	97	95	105			
WG419577ICB	ICB	03/17/17 11:48				.0038	mg/L		-0.009	0.009			
WG419510LRB	LRB	03/17/17 12:00				.0033	mg/L		-0.0066	0.0066			
WG419510LFB	LFB	03/17/17 12:03	II170220-2	.5005		.4924	mg/L	98	85	115			
L35993-02LFM	LFM	03/17/17 12:18	II170220-2	.5005	.067	.5634	mg/L	99	70	130			
L35993-02LFMD	LFMD	03/17/17 12:21	II170220-2	.5005	.067	.5719	mg/L	101	70	130	1	20	

Beryllium, total recoverable M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG419792													
WG419792ICV	ICV	03/21/17 16:22	MS170301-3	.05		.048128	mg/L	96	90	110			
WG419792ICB	ICB	03/21/17 16:24				.000143	mg/L		-0.00015	0.00015			
WG419506LRB	LRB	03/21/17 16:26				U	mg/L		-0.00011	0.00011			
WG419506LFB	LFB	03/21/17 16:28	MS170220-2	.05035		.049792	mg/L	99	85	115			
L35995-01LFM	LFM	03/21/17 16:45	MS170220-2	.05035	U	.044073	mg/L	88	70	130			
L35995-01LFMD	LFMD	03/21/17 16:47	MS170220-2	.05035	U	.042526	mg/L	84	70	130	4	20	

Boron, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG419577													
WG419577ICV	ICV	03/17/17 11:42	II170316-1	2		2.017	mg/L	101	95	105			
WG419577ICB	ICB	03/17/17 11:48				U	mg/L		-0.03	0.03			
WG419510LRB	LRB	03/17/17 12:00				U	mg/L		-0.022	0.022			
WG419510LFB	LFB	03/17/17 12:03	II170220-2	.5005		.501	mg/L	100	85	115			
L35993-02LFM	LFM	03/17/17 12:18	II170220-2	.5005	.08	.571	mg/L	98	70	130			
L35993-02LFMD	LFMD	03/17/17 12:21	II170220-2	.5005	.08	.584	mg/L	101	70	130	2	20	

Cadmium, total recoverable M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG419792													
WG419792ICV	ICV	03/21/17 16:22	MS170301-3	.05		.04995	mg/L	100	90	110			
WG419792ICB	ICB	03/21/17 16:24				.00015	mg/L		-0.0003	0.0003			
WG419506LRB	LRB	03/21/17 16:26				U	mg/L		-0.00022	0.00022			
WG419506LFB	LFB	03/21/17 16:28	MS170220-2	.05005		.05097	mg/L	102	85	115			
L35995-01LFM	LFM	03/21/17 16:45	MS170220-2	.05005	U	.04882	mg/L	98	70	130			
L35995-01LFMD	LFMD	03/21/17 16:47	MS170220-2	.05005	U	.0479	mg/L	96	70	130	2	20	

Calcium, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG419577													
WG419577ICV	ICV	03/17/17 11:42	II170316-1	100		96.72	mg/L	97	95	105			
WG419577ICB	ICB	03/17/17 11:48				U	mg/L		-0.3	0.3			
WG419510LRB	LRB	03/17/17 12:00				U	mg/L		-0.22	0.22			
WG419510LFB	LFB	03/17/17 12:03	II170220-2	67.99026		65.14	mg/L	96	85	115			
L35993-02LFM	LFM	03/17/17 12:18	II170220-2	67.99026	52.3	117.4	mg/L	96	70	130			
L35993-02LFMD	LFMD	03/17/17 12:21	II170220-2	67.99026	52.3	118.9	mg/L	98	70	130	1	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L35993**

Chemical Oxygen Demand M410.4

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG419578													
WG419578ICV	ICV	03/17/17 9:50	WC161013-8	200		197	mg/L	99	90	110			
WG419578ICB	ICB	03/17/17 10:02				U	mg/L		-10	10			
WG419578LRB	LRB	03/17/17 10:14				U	mg/L		-10	10			
WG419578LFB	LFB	03/17/17 10:26	WC161013-7	50		46	mg/L	92	90	110			
L35993-05DUP	DUP	03/17/17 12:53			U	U	mg/L				0	20	RA
L35993-05AS	AS	03/17/17 13:05	WC161013-7	50	U	48	mg/L	96	90	110			

Chloride M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG417228													
WG417228ICV	ICV	01/31/17 16:14	WI170131-9	20.02		19.6	mg/L	98	90	110			
WG417228ICB	ICB	01/31/17 16:32				U	mg/L		-0.5	0.5			
WG420270													
WG420270LFB	LFB	03/29/17 19:28	WI170304-2	30		30.4	mg/L	101	90	110			
L35928-01DUP	DUP	03/29/17 20:04			38.3	38.2	mg/L				0	20	
L35997-01AS	AS	03/30/17 0:50	WI170304-2	150	10.3	164	mg/L	102	90	110			
L35928-02AS	AS	03/30/17 11:37	WI170304-2	600	1060	1680	mg/L	103	90	110			
L35993-05DUP	DUP	03/30/17 12:48			6.46	6.48	mg/L				0	20	

Chromium, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG419577													
WG419577ICV	ICV	03/17/17 11:42	II170316-1	2		1.907	mg/L	95	95	105			
WG419577ICB	ICB	03/17/17 11:48				U	mg/L		-0.03	0.03			
WG419510LRB	LRB	03/17/17 12:00				U	mg/L		-0.022	0.022			
WG419510LFB	LFB	03/17/17 12:03	II170220-2	.5025		494	mg/L	98	85	115			
L35993-02LFM	LFM	03/17/17 12:18	II170220-2	.5025	U	.491	mg/L	98	70	130			
L35993-02LFMD	LFMD	03/17/17 12:21	II170220-2	.5025	U	.499	mg/L	99	70	130	2	20	

Cobalt, total recoverable M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG419792													
WG419792ICV	ICV	03/21/17 16:22	MS170301-3	.05		.049887	mg/L	100	90	110			
WG419792ICB	ICB	03/21/17 16:24				.000119	mg/L		-0.00015	0.00015			
WG419506LRB	LRB	03/21/17 16:26				U	mg/L		-0.00011	0.00011			
WG419506LFB	LFB	03/21/17 16:28	MS170220-2	.05005		.050149	mg/L	100	85	115			
L35995-01LFM	LFM	03/21/17 16:45	MS170220-2	.05005	.00058	.046494	mg/L	92	70	130			
L35995-01LFMD	LFMD	03/21/17 16:47	MS170220-2	.05005	.00058	.045583	mg/L	90	70	130	2	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L35993

Conductivity @25C

SM2510B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG419528													
WG419528LCSW2	LCSW	03/16/17 15:27	PCN51547	1410		1500	umhos/cm	106	90	110			
WG419528LCSW5	LCSW	03/16/17 18:38	PCN51547	1410		1470	umhos/cm	104	90	110			
WG419528LCSW8	LCSW	03/16/17 22:15	PCN51547	1410		1450	umhos/cm	103	90	110			
L35993-03DUP	DUP	03/17/17 0:13			674	673	umhos/cm				0	20	
L35997-01DUP	DUP	03/17/17 1:57			940	943	umhos/cm				0	20	
WG419528LCSW11	LCSW	03/17/17 2:01	PCN51547	1410		1440	umhos/cm	102	90	110			
WG419528LCSW14	LCSW	03/17/17 5:16	PCN51547	1410		1410	umhos/cm	100	90	110			

Copper, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG419577													
WG419577ICV	ICV	03/17/17 11:42	II170316-1	2		1.962	mg/L	98	95	105			
WG419577ICB	ICB	03/17/17 11:48				U	mg/L		-0.03	0.03			
WG419510LRB	LRB	03/17/17 12:00				U	mg/L		-0.022	0.022			
WG419510LFB	LFB	03/17/17 12:03	II170220-2	.5005		.486	mg/L	97	85	115			
L35993-02LFM	LFM	03/17/17 12:18	II170220-2	.5005	.02	.507	mg/L	97	70	130			
L35993-02LFMD	LFMD	03/17/17 12:21	II170220-2	.5005	.02	.515	mg/L	99	70	130	2	20	

Fluoride

M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG417228													
WG417228ICV	ICV	01/31/17 16:14	WI170131-9	3.996		3.99	mg/L	100	90	110			
WG420270													
WG420270LFB	LFB	03/29/17 19:28	WI170304-2	1.5		1.59	mg/L	106	90	110			
L35928-01DUP	DUP	03/29/17 20:04			23.3	23.3	mg/L				0	20	
L35997-01AS	AS	03/30/17 0:50	WI170304-2	7.5	.26	8.24	mg/L	106	90	110			
L35928-02AS	AS	03/30/17 11:37	WI170304-2	30	57.9	86.5	mg/L	95	90	110			
L35993-05DUP	DUP	03/30/17 12:48			.29	.29	mg/L				0	20	RA

Iron, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG419577													
WG419577ICV	ICV	03/17/17 11:42	II170316-1	2		1.945	mg/L	97	95	105			
WG419577ICB	ICB	03/17/17 11:48				U	mg/L		-0.06	0.06			
WG419510LRB	LRB	03/17/17 12:00				U	mg/L		-0.044	0.044			
WG419510LFB	LFB	03/17/17 12:03	II170220-2	1.0017		.987	mg/L	99	85	115			
L35993-02LFM	LFM	03/17/17 12:18	II170220-2	1.0017	.11	1.175	mg/L	106	70	130			
L35993-02LFMD	LFMD	03/17/17 12:21	II170220-2	1.0017	.11	1.138	mg/L	103	70	130	3	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L35993

Lead, total recoverable M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG419829													
WG419829ICV	ICV	03/22/17 12:10	MS170301-3	.05		.05163	mg/L	103	90	110			
WG419829ICB	ICB	03/22/17 12:13				U	mg/L		-0.0003	0.0003			
WG419506LRB	LRB	03/22/17 12:16				U	mg/L		-0.00022	0.00022			
WG419506LFB	LFB	03/22/17 12:19	MS170220-2	.0501		.04871	mg/L	97	85	115			
L35995-01LFM	LFM	03/22/17 12:41	MS170220-2	.0501	0002	.0477	mg/L	95	70	130			
L35995-01LFMD	LFMD	03/22/17 12:43	MS170220-2	.0501	0002	.04837	mg/L	96	70	130	1	20	

Magnesium, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG419577													
WG419577ICV	ICV	03/17/17 11:42	1170316-1	100		97.71	mg/L	98	95	105			
WG419577ICB	ICB	03/17/17 11:48				U	mg/L		-0.6	0.6			
WG419510LRB	LRB	03/17/17 12:00				U	mg/L		-0.44	0.44			
WG419510LFB	LFB	03/17/17 12:03	1170220-2	50.00074		43.65	mg/L	87	85	115			
L35993-02LFM	LFM	03/17/17 12:18	1170220-2	50.00074	39.7	83.7	mg/L	88	70	130			
L35993-02LFMD	LFMD	03/17/17 12:21	1170220-2	50.00074	39.7	85.07	mg/L	91	70	130	2	20	

Manganese, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG419577													
WG419577ICV	ICV	03/17/17 11:42	1170316-1	2		1.907	mg/L	95	95	105			
WG419577ICB	ICB	03/17/17 11:48				U	mg/L		-0.015	0.015			
WG419510LRB	LRB	03/17/17 12:00				U	mg/L		-0.011	0.011			
WG419510LFB	LFB	03/17/17 12:03	1170220-2	5		.4904	mg/L	98	85	115			
L35993-02LFM	LFM	03/17/17 12:18	1170220-2	5	.032	.5223	mg/L	98	70	130			
L35993-02LFMD	LFMD	03/17/17 12:21	1170220-2	5	.032	.5292	mg/L	99	70	130	1	20	

Mercury, total M245.1 CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG420153													
WG420153ICV	ICV	03/31/17 10:07	HG170127-2	.005005		.00484	mg/L	97	95	105			
WG420153ICB	ICB	03/31/17 10:08				U	mg/L		-0.0002	0.0002			
WG420285													
WG420285LRB	LRB	03/31/17 12:51				U	mg/L		-0.00044	0.00044			
WG420285LFB	LFB	03/31/17 12:52	HG170327-2	.002002		.00203	mg/L	101	85	115			
L35993-02LFM	LFM	03/31/17 12:55	HG170327-2	.002002	U	.00212	mg/L	106	85	115			
L35993-02LFMD	LFMD	03/31/17 12:55	HG170327-2	.002002	U	.00211	mg/L	105	85	115	0	20	

Molybdenum, total recoverable M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG419792													
WG419792ICV	ICV	03/21/17 16:22	MS170301-3	.01998		.01924	mg/L	96	90	110			
WG419792ICB	ICB	03/21/17 16:24				U	mg/L		-0.0015	0.0015			
WG419506LRB	LRB	03/21/17 16:26				U	mg/L		-0.0011	0.0011			
WG419506LFB	LFB	03/21/17 16:28	MS170220-2	.0501		.05116	mg/L	102	85	115			
L35995-01LFM	LFM	03/21/17 16:45	MS170220-2	.0501	.0008	.05096	mg/L	100	70	130			
L35995-01LFMD	LFMD	03/21/17 16:47	MS170220-2	.0501	.0008	.05015	mg/L	99	70	130	2	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L35993**

Nickel, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG419577													
WG419577ICV	ICV	03/17/17 11:42	II170316-1	2.002		1.9815	mg/L	99	95	105			
WG419577ICB	ICB	03/17/17 11:48				U	mg/L		-0.024	0.024			
WG419510LRB	LRB	03/17/17 12:00				U	mg/L		-0.0176	0.0176			
WG419510LFB	LFB	03/17/17 12:03	II170220-2	.498		.4897	mg/L	98	85	115			
L35993-02LFM	LFM	03/17/17 12:18	II170220-2	.498	.075	.557	mg/L	97	70	130			
L35993-02LFMD	LFMD	03/17/17 12:21	II170220-2	.498	.075	.5637	mg/L	98	70	130	1	20	

Nitrate/Nitrite as N M353.2 - H2SO4 preserved

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG420378													
WG420378ICV	ICV	03/30/17 20:30	WI170310-3	2.416		2.404	mg/L	100	90	110			
WG420378ICB	ICB	03/30/17 20:31				U	mg/L		-0.02	0.02			
WG420383													
WG420383LFB1	LFB	03/30/17 22:45	WI170104-22	2		2.003	mg/L	100	90	110			
L35993-01AS	AS	03/30/17 22:47	WI170104-22	2	1.17	3.184	mg/L	101	90	110			
WG420383LFB2	LFB	03/30/17 23:25	WI170104-22	2		1.987	mg/L	99	90	110			
L35993-02DUP	DUP	03/30/17 23:44			15.4	15.42	mg/L				0	20	

Nitrogen, ammonia M350.1 Auto Salicylate w/gas diffusion

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG419591													
WG419591ICV	ICV	03/17/17 12:23	WI170308-1	11.988		12	mg/L	100	90	110			
WG419591ICB	ICB	03/17/17 12:24				U	mg/L		-0.05	0.05			
WG419597													
WG419597LFB1	LFB	03/17/17 13:55	WI161026-1	10		9.984	mg/L	100	90	110			
L35993-01AS	AS	03/17/17 13:58	WI161026-1	10	8	10.972	mg/L	102	90	110			
L35993-02DUP	DUP	03/17/17 14:01			5.51	5.559	mg/L				1	20	
WG419597LFB2	LFB	03/17/17 14:37	WI161026-1	10		10.389	mg/L	104	90	110			

Nitrogen, total Kjeldahl M351.2 - TKN by Block Digester

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG420293													
WG420293ICV	ICV	03/29/17 22:33	WI170302-14	4		3.84	mg/L	96	90	110			
WG420293ICB	ICB	03/29/17 22:34				U	mg/L		-0.1	0.1			
WG420080LRB1	LRB	03/29/17 22:35				U	mg/L		-0.1	0.1			
WG420080LFB1	LFB	03/29/17 22:36	WI170126-7	2.5		2.48	mg/L	99	90	110			
L36058-08LFM	LFM	03/29/17 22:44	5XTKN	12.5	U	U	mg/L	0	90	110			M2 N1
L36058-09DUP	DUP	03/29/17 22:49			.3	.31	mg/L				3	20	RA
WG420080LFB2	LFB	03/29/17 23:10	WI170126-7	2.5		2.46	mg/L	98	90	110			
WG420080LRB2	LRB	03/29/17 23:33				U	mg/L		-0.1	0.1			

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L35993

Potassium, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG419577													
WG419577ICV	ICV	03/17/17 11:42	II170316-1	20		19.42	mg/L	97	95	105			
WG419577ICB	ICB	03/17/17 11:48				U	mg/L		-0.6	0.6			
WG419510LRB	LRB	03/17/17 12:00				U	mg/L		-0.44	0.44			
WG419510LFB	LFB	03/17/17 12:03	II170220-2	99.96532		94.28	mg/L	94	85	115			
L35993-02LFM	LFM	03/17/17 12:18	II170220-2	99.96532	9.9	106.2	mg/L	96	70	130			
L35993-02LFMD	LFMD	03/17/17 12:21	II170220-2	99.96532	9.9	107.2	mg/L	97	70	130	1	20	

Residue, Filterable (TDS) @180C SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG419494													
WG419494PBW	PBW	03/16/17 8:49				U	mg/L		-20	20			
WG419494LCSW	LCSW	03/16/17 8:51	PCN52649	260		258	mg/L	99	80	120			
L35993-04DUP	DUP	03/16/17 9:20			358	364	mg/L				2	10	
L36010-02DUP	DUP	03/16/17 9:49			578	582	mg/L				1	10	

Residue, Non-Filterable (TSS) @105C SM2540D

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG419508													
WG419508PBW	PBW	03/16/17 10:24				U	mg/L		-15	15			
WG419508LCSW	LCSW	03/16/17 10:26	PCN52649	160		162	mg/L	101	80	120			
L35993-04DUP	DUP	03/16/17 10:55			14	15	mg/L				7	10	RA
L36010-02DUP	DUP	03/16/17 11:24			12	12	mg/L				0	10	RA

Selenium, total recoverable M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG419792													
WG419792ICV	ICV	03/21/17 16:22	MS170301-3	.05		.05116	mg/L	102	90	110			
WG419792ICB	ICB	03/21/17 16:24				.00011	mg/L		-0.0003	0.0003			
WG419506LRB	LRB	03/21/17 16:26				U	mg/L		-0.00022	0.00022			
WG419506LFB	LFB	03/21/17 16:28	MS170220-2	.05005		.04943	mg/L	99	85	115			
L35995-01LFM	LFM	03/21/17 16:45	MS170220-2	.05005	.0017	.05502	mg/L	107	70	130			
L35995-01LFMD	LFMD	03/21/17 16:47	MS170220-2	.05005	.0017	.05606	mg/L	109	70	130	2	20	

Silver, total recoverable M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG419792													
WG419792ICV	ICV	03/21/17 16:22	MS170301-3	.02004		.021587	mg/L	108	90	110			
WG419792ICB	ICB	03/21/17 16:24				.00005	mg/L		-0.00015	0.00015			
WG419506LRB	LRB	03/21/17 16:26				U	mg/L		-0.00011	0.00011			
WG419506LFB	LFB	03/21/17 16:28	MS170220-2	.01001		.011016	mg/L	110	85	115			
L35995-01LFM	LFM	03/21/17 16:45	MS170220-2	.01001	U	.010088	mg/L	101	70	130			
L35995-01LFMD	LFMD	03/21/17 16:47	MS170220-2	.01001	U	.00988	mg/L	99	70	130	2	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L35993**

Sodium, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG419577													
WG419577ICV	ICV	03/17/17 11:42	II170316-1	100		98.72	mg/L	99	95	105			
WG419577ICB	ICB	03/17/17 11:48				U	mg/L		-0.6	0.6			
WG419510LRB	LRB	03/17/17 12:00				U	mg/L		-0.44	0.44			
WG419510LFB	LFB	03/17/17 12:03	II170220-2	100.0322		95.58	mg/L	96	85	115			
L35993-02LFM	LFM	03/17/17 12:18	II170220-2	100.0322	23.9	120.9	mg/L	97	70	130			
L35993-02LFMD	LFMD	03/17/17 12:21	II170220-2	100.0322	23.9	122.6	mg/L	99	70	130	1	20	

Sulfate M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG417228													
WG417228ICV	ICV	01/31/17 16:14	WI170131-9	50		50.3	mg/L	101	90	110			
WG417228ICB	ICB	01/31/17 16:32				U	mg/L		-0.5	0.5			
WG420270													
WG420270LFB	LFB	03/29/17 19:28	WI170304-2	30		29.8	mg/L	99	90	110			
L35928-01DUP	DUP	03/29/17 20:04			U	U	mg/L				0	20	RA
L35997-01AS	AS	03/30/17 0:50	WI170304-2	150	307	453	mg/L	97	90	110			
L35928-02AS	AS	03/30/17 11:37	WI170304-2	600	U	594	mg/L	99	90	110			
L35993-05DUP	DUP	03/30/17 12:48			18.7	18.7	mg/L				0	20	

Sulfide as S SM4500S2-D

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG419471													
WG419471ICV	ICV	03/15/17 14:30	WC170315-3	.34934		.349	mg/L	100	90	110			
WG419471ICB	ICB	03/15/17 14:33				U	mg/L		-0.06	0.06			
WG419471LFB	LFB	03/15/17 14:37	WC170315-6	.2373333		.255	mg/L	107	80	120			
L35994-01AS	AS	03/15/17 15:23	WC170315-6	.2373333	U	.263	mg/L	111	75	125			
L35994-01DUP	DUP	03/15/17 15:27			U	U	mg/L				0	20	RA

Thallium, total recoverable M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG419792													
WG419792ICV	ICV	03/21/17 16:22	MS170301-3	.05		.05443	mg/L	109	90	110			
WG419792ICB	ICB	03/21/17 16:24				.00013	mg/L		-0.0003	0.0003			
WG419506LRB	LRB	03/21/17 16:26				U	mg/L		-0.00022	0.00022			
WG419506LFB	LFB	03/21/17 16:28	MS170220-2	.0501		.05325	mg/L	106	85	115			
L35995-01LFM	LFM	03/21/17 16:45	MS170220-2	.0501	U	.05489	mg/L	110	70	130			
L35995-01LFMD	LFMD	03/21/17 16:47	MS170220-2	.0501	U	.05505	mg/L	110	70	130	0	20	

Tin, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG419577													
WG419577ICV	ICV	03/17/17 11:42	II170316-1	2		1.945	mg/L	97	95	105			
WG419577ICB	ICB	03/17/17 11:48				U	mg/L		-0.12	0.12			
WG419510LRB	LRB	03/17/17 12:00				U	mg/L		-0.088	0.088			
WG419510LFB	LFB	03/17/17 12:03	II170220-2	1.001		.965	mg/L	96	85	115			
L35993-02LFM	LFM	03/17/17 12:18	II170220-2	1.001	U	.954	mg/L	95	70	130			
L35993-02LFMD	LFMD	03/17/17 12:21	II170220-2	1.001	U	.958	mg/L	96	70	130	0	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L35993**

Uranium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG420266													
WG420266ICV	ICV	03/29/17 18:05	MS170301-3	.05		.04745	mg/L	95	90	110			
WG420266ICB	ICB	03/29/17 18:08				U	mg/L		-0.0003	0.0003			
WG420266LFB	LFB	03/29/17 18:11	MS170321-3	.05		.04807	mg/L	96	85	115			
L35993-03AS	AS	03/29/17 18:24	MS170321-3	.05	.0047	.05169	mg/L	94	70	130			
L35993-03ASD	ASD	03/29/17 18:28	MS170321-3	.05	.0047	.05391	mg/L	98	70	130	4	20	

Uranium, total recoverable M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG419792													
WG419792ICV	ICV	03/21/17 16:22	MS170301-3	.05		.05245	mg/L	105	90	110			
WG419792ICB	ICB	03/21/17 16:24				.00019	mg/L		-0.0003	0.0003			
WG419506LRB	LRB	03/21/17 16:26				U	mg/L		-0.00022	0.00022			
WG419506LFB	LFB	03/21/17 16:28	MS170220-2	.05		.05298	mg/L	106	85	115			
L35995-01LFM	LFM	03/21/17 16:45	MS170220-2	.05	.0032	.05833	mg/L	110	70	130			
L35995-01LFMD	LFMD	03/21/17 16:47	MS170220-2	.05	.0032	.05732	mg/L	108	70	130	2	20	

Vanadium, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG419577													
WG419577ICV	ICV	03/17/17 11:42	II170316-1	2		1.9888	mg/L	99	95	105			
WG419577ICB	ICB	03/17/17 11:48				U	mg/L		-0.015	0.015			
WG419510LRB	LRB	03/17/17 12:00				U	mg/L		-0.011	0.011			
WG419510LFB	LFB	03/17/17 12:03	II170220-2	.4985		.4897	mg/L	98	85	115			
L35993-02LFM	LFM	03/17/17 12:18	II170220-2	.4985	U	.4892	mg/L	98	70	130			
L35993-02LFMD	LFMD	03/17/17 12:21	II170220-2	.4985	U	.4977	mg/L	100	70	130	2	20	

Zinc, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG419577													
WG419577ICV	ICV	03/17/17 11:42	II170316-1	2		1.92	mg/L	96	95	105			
WG419577ICB	ICB	03/17/17 11:48				U	mg/L		-0.03	0.03			
WG419510LRB	LRB	03/17/17 12:00				U	mg/L		-0.022	0.022			
WG419510LFB	LFB	03/17/17 12:03	II170220-2	.4942		.491	mg/L	99	85	115			
L35993-02LFM	LFM	03/17/17 12:18	II170220-2	.4942	.03	.515	mg/L	98	70	130			
L35993-02LFMD	LFMD	03/17/17 12:21	II170220-2	.4942	.03	.522	mg/L	100	70	130	1	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L35993**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L35993-01	WG419792	Arsenic, total recoverable	M200.8 ICP-MS	BB	Target analyte detected in calibration blank at or above acceptance limit. Sample value was > 10X the concentration in the calibration blank.
	WG419578	Chemical Oxygen Demand	M410.4	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG420270	Fluoride	M300.0 - Ion Chromatography	DC	Sample required dilution. Non-target analyte exceeded calibration range.
	WG420293	Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M351.2 - TKN by Block Digester	N1	See Case Narrative.
			M351.2 - TKN by Block Digester	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG419508	Residue, Non-Filterable (TSS) @105C	SM2540D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
WG420270	Sulfate	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).	
WG419471	Sulfide as S	SM4500S2-D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).	
L35993-02	WG419792	Arsenic, total recoverable	M200.8 ICP-MS	BB	Target analyte detected in calibration blank at or above acceptance limit. Sample value was > 10X the concentration in the calibration blank.
	WG419578	Chemical Oxygen Demand	M410.4	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG420270	Fluoride	M300.0 - Ion Chromatography	DC	Sample required dilution. Non-target analyte exceeded calibration range.
	WG420293	Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M351.2 - TKN by Block Digester	N1	See Case Narrative.
			M351.2 - TKN by Block Digester	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG419508	Residue, Non-Filterable (TSS) @105C	SM2540D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
WG420270	Sulfate	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).	
WG419471	Sulfide as S	SM4500S2-D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L35993**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L35993-03	WG419792	Arsenic, total recoverable	M200.8 ICP-MS	BB	Target analyte detected in calibration blank at or above acceptance limit. Sample value was > 10X the concentration in the calibration blank.
	WG419578	Chemical Oxygen Demand	M410.4	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG420270	Fluoride	M300.0 - Ion Chromatography	DC	Sample required dilution. Non-target analyte exceeded calibration range.
	WG420293	Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M351.2 - TKN by Block Digester	N1	See Case Narrative.
			M351.2 - TKN by Block Digester	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG419508	Residue, Non-Filterable (TSS) @105C	SM2540D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG420270	Sulfate	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
WG419471	Sulfide as S	SM4500S2-D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).	
L35993-04	WG419792	Arsenic, total recoverable	M200.8 ICP-MS	BB	Target analyte detected in calibration blank at or above acceptance limit. Sample value was > 10X the concentration in the calibration blank.
	WG419578	Chemical Oxygen Demand	M410.4	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG420293	Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M351.2 - TKN by Block Digester	N1	See Case Narrative.
			M351.2 - TKN by Block Digester	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG419508	Residue, Non-Filterable (TSS) @105C	SM2540D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG420270	Sulfate	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG419471	Sulfide as S	SM4500S2-D	QD	Reported value is the background-corrected concentration, as described by the method.
SM4500S2-D			RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).	
L35993-05	WG419578	Chemical Oxygen Demand	M410.4	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG420270	Fluoride	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG420293	Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M351.2 - TKN by Block Digester	N1	See Case Narrative.
			M351.2 - TKN by Block Digester	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG419508	Residue, Non-Filterable (TSS) @105C	SM2540D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
WG419471	Sulfide as S	SM4500S2-D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).	

Energy Fuels Resources (USA) Inc.
 March 2017 Canyon Sampling

ACZ Project ID: L35993
 Date Received: 03/15/2017 10:18
 Received By:
 Date Printed: 3/15/2017

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody form or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?			X
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody form complete and accurate?	X		
7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples?		X	

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits? ¹	X		
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?	X		

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp (°C)	Temp Criteria (°C)	Rad (µR/Hr)	Custody Seal Intact?
4392	3.1	<=6.0	23	Yes

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

Energy Fuels Resources (USA) Inc.
March 2017 Canyon Sampling

ACZ Project ID: L35993
Date Received: 03/15/2017 10:18
Received By:
Date Printed: 3/15/2017

¹ The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na₂S₂O₃ preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).

L35993



CHAIN OF CUSTODY

Samples Shipped to:	<u>ACZ Laboratories</u> <u>2773 Downhill Drive</u> <u>Steamboat Springs, CO 80487</u>	Contact:	<u>Kathy Weinel</u> <u>ph: 303.389.4134</u> <u>kweinel@energyfuels.com</u>
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Chain of Custody/Sampling Analysis Request

Project	Samplers Name		Samplers Signature
March 2017 Canyon Sampling	David Turk		
Sample ID	Date Collected	Time Collected	Laboratory Analysis Requested
Discharge	3/14/2017	0745	See Attached Quote
Pond	3/14/2017	0530	See Attached Quote
Upper Water Ring	3/14/2017	0545	See Attached Quote
Lower Water Ring	3/14/2017	0610	See Attached Quote
DW Well	3/14/2017	0700	See Attached Quote
Comments:			

L35993 Chain of Custody

Relinquished By:(Signature)	Date/Time	Received By:(Signature)	Date/Time
	3/14/17 1130	UPS	
Relinquished By:(Signature)	Date/Time	Received By:(Signature)	Date/Time
			3/15/17 1012

Account: EFRC/Energy Fuels Resources (USA)

Bottle Order: BO36846

Internal Note: Please be sure to include Red and Green cubes.
Client will field fill. Bill back. MUST SHIP UPS!

Bill to Account: Bill to Client

Ship Date Requested: 01/24/2017

Request Placed at: 01/23/2017 14:55

Service Requested: NextDay

Sampling supplies

PACK	Qty	ACZ ID	Type	Description
	1	COC	Chain of Custody	Chain of Custody, 1 for 10 samples.
	2	SEAL	Custody Seal	Custody seals for cooler, two for each cooler.
	1	RETURN	Return Address	Return Address label, one for each cooler.
	72	LABELS	Sample Labels	ACZ supplied labels for sample containers

Quote number: CANYON-2016

Canyon Mine groundwater monitoring

Sample Quantity: 8

Client is responsible for necessary field filtering

PACK	Qty	Type	Size	Filter/Raw/Preserve	Instructions
	1	GREEN CUBE	4 L	Filtered/Nitric	Radiochemistry (dissolved) - Filter sample with .45 micron filter. Do not overfill as there is Nitric Acid in the bottle.
	1	GREEN PC	125 ML	Green pre-cleaned Filtered/Nitric	Metals (dissolved including ICPMS) - Filter sample with .45 micron filter. Do not overfill as there is Nitric Acid in the bottle.
	0	GREEN RAD	1000 ML	Filtered/Nitric	Radiochemistry (dissolved) - Filter sample with .45 micron filter. Do not overfill as there is Nitric Acid in the bottle.
	1	ORANGE	1000 ML	Raw/Hydrochloric	Oil and Grease - Do not overfill as there is Hydrochloric Acid in the bottle.
	1	RAW	500 ML	Raw	Wet Chemistry (analyses that do not require preservative or filtration) - Completely fill container.
	1	RED CUBE	4 L	Raw/Nitric	Radiochemistry (total) - Do not overfill as there is Nitric Acid in the bottle.
	1	RED PC	250 ML	Red pre-cleaned Raw/Nitric	Metals (total including ICPMS) - Do not overfill as there is Nitric Acid in the bottle.
	0	RED RAD	1000 ML	Raw/Nitric	Radiochemistry (total) - Do not overfill as there is Nitric Acid in the bottle.
	1	TAN	125 ML	Raw/NaOH & Zinc Acetate	Sulfide - Do not overfill as there is Sodium Hydroxide and Zinc Acetate in the bottle.
	1	WHITE	250 ML	Filtered	Wet chemistry (dissolved) - Filter sample with .45 micron filter. Completely fill container.
	1	YELLOW GLASS	250 ML	Raw/Sulfuric	COD, TOC, Phenols, and total wet chemistry analysis. Do not overfill as there is Sulfuric Acid in the bottle.

May 25, 2017

Report to:

Kathy Weinel

Energy Fuels Resources (USA) Inc.

225 Union Blvd. , Suite 600

Lakewood, CO 80228

Bill to:

Accounts Payable

Energy Fuels Resources (USA) Inc.

225 Union Blvd. , Suite 600

Lakewood, CO 80228

Project ID: Canyon Monthly 2016

ACZ Project ID: L36538

Kathy Weinel:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on April 12, 2017. This project has been assigned to ACZ's project number, L36538. Please reference this number in all future inquiries.

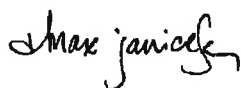
All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L36538. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after June 24, 2017. If the samples are determined to be hazardous, additional charges apply for disposal (typically \$11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.



Max Janicek has reviewed and approved this report.



Energy Fuels Resources (USA) Inc.
 Project ID: Canyon Monthly 2016
 Sample ID: DEEP WATER WELL

ACZ Sample ID: **L36538-02**
 Date Sampled: 04/11/17 08:20
 Date Received: 04/12/17
 Sample Matrix: Ground Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Nitrogen, total Kjeldahl	M351.2 - Block Digestor								04/27/17 10:45	bce
Total Recoverable Digestion	M200.2 ICP								04/24/17 14:32	gss
Total Recoverable Digestion	M200.2 ICP-MS								04/13/17 17:01	mfn

Energy Fuels Resources (USA) Inc.
 Project ID: Canyon Monthly 2016
 Sample ID: DEEP WATER WELL

ACZ Sample ID: **L36538-02**
 Date Sampled: 04/11/17 08:20
 Date Received: 04/12/17
 Sample Matrix: Ground Water

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, total recoverable	M200.7 ICP	1		U		mg/L	0.03	0.2	04/25/17 22:49	gss
Antimony, total recoverable	M200.8 ICP-MS	1		U	*	mg/L	0.0004	0.002	04/17/17 17:15	mfm
Arsenic, total recoverable	M200.8 ICP-MS	1	0.0025			mg/L	0.0002	0.001	04/17/17 17:15	mfm
Barium, total recoverable	M200.7 ICP	1	0.079			mg/L	0.003	0.02	04/25/17 22:49	gss
Beryllium, total recoverable	M200.8 ICP-MS	1		U		mg/L	0.00005	0.0003	04/17/17 17:15	mfm
Boron, total recoverable	M200.7 ICP	1	0.02	B		mg/L	0.01	0.05	04/25/17 22:49	gss
Cadmium, total recoverable	M200.8 ICP-MS	1		U		mg/L	0.0001	0.0005	04/17/17 17:15	mfm
Calcium, total recoverable	M200.7 ICP	1	42.1			mg/L	0.1	0.5	04/25/17 22:49	gss
Chromium, total recoverable	M200.7 ICP	1		U		mg/L	0.01	0.05	04/25/17 22:49	gss
Cobalt, total recoverable	M200.8 ICP-MS	1	0.00023	B		mg/L	0.00005	0.0003	04/17/17 17:15	mfm
Copper, total recoverable	M200.7 ICP	1	0.01	B		mg/L	0.01	0.05	04/25/17 22:49	gss
Iron, total recoverable	M200.7 ICP	1	2.23		*	mg/L	0.02	0.05	04/25/17 22:49	gss
Lead, total recoverable	M200.8 ICP-MS	1	0.0205			mg/L	0.0001	0.0005	04/17/17 17:15	mfm
Magnesium, total recoverable	M200.7 ICP	1	29.9			mg/L	0.2	1	04/25/17 22:49	gss
Manganese, total recoverable	M200.7 ICP	1	0.096			mg/L	0.005	0.03	04/25/17 22:49	gss
Mercury, total	M245.1 CVAA	1		U		mg/L	0.0002	0.001	04/21/17 16:17	sck
Molybdenum, total recoverable	M200.8 ICP-MS	1	0.0008	B		mg/L	0.0005	0.003	04/17/17 17:15	mfm
Nickel, total recoverable	M200.7 ICP	1	0.015	B		mg/L	0.008	0.04	04/25/17 22:49	gss
Potassium, total recoverable	M200.7 ICP	1	2.2			mg/L	0.2	1	04/25/17 22:49	gss
Selenium, total recoverable	M200.8 ICP-MS	1	0.0006			mg/L	0.0001	0.0003	04/17/17 17:15	mfm
Silica, total recoverable	M200.7 ICP	1	7.1		*	mg/L	0.2	1	04/25/17 22:49	gss
Silver, total recoverable	M200.8 ICP-MS	1	0.00007	B		mg/L	0.00005	0.0003	04/17/17 17:15	mfm
Sodium, total recoverable	M200.7 ICP	1	5.9			mg/L	0.2	1	04/25/17 22:49	gss
Thallium, total recoverable	M200.8 ICP-MS	1		U		mg/L	0.0001	0.0005	04/17/17 17:15	mfm
Tin, total recoverable	M200.7 ICP	1		U		mg/L	0.04	0.2	04/25/17 22:49	gss
Uranium, dissolved	M200.8 ICP-MS	1	0.011			mg/L	0.0001	0.0005	04/25/17 12:37	enb
Uranium, total recoverable	M200.8 ICP-MS	1	0.0122			mg/L	0.0001	0.0005	04/17/17 17:15	mfm
Vanadium, total recoverable	M200.7 ICP	1		U		mg/L	0.005	0.03	04/25/17 22:49	gss
Zinc, total recoverable	M200.7 ICP	1	0.02	B		mg/L	0.01	0.05	04/25/17 22:49	gss

Energy Fuels Resources (USA) Inc.
 Project ID: Canyon Monthly 2016
 Sample ID: DEEP WATER WELL

ACZ Sample ID: **L36538-02**
 Date Sampled: 04/11/17 08:20
 Date Received: 04/12/17
 Sample Matrix: Ground Water

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	200			mg/L	2	20	04/14/17 0:00	abd
Carbonate as CaCO3		1	8.6	B		mg/L	2	20	04/14/17 0:00	abd
Hydroxide as CaCO3		1		U		mg/L	2	20	04/14/17 0:00	abd
Total Alkalinity		1	208			mg/L	2	20	04/14/17 0:00	abd
Biochemical Oxygen Demand (5 day)	SM5210B	1	1.17		*	mg/L	2	2	04/12/17 17:11	abd/emk
Chemical Oxygen Demand	M410.4	1		U	*	mg/L	10	20	04/21/17 11:22	emk
Chloride	M300.0 - Ion Chromatography	1	6.52			mg/L	0.5	2.5	04/25/17 18:04	krh
Conductivity @25C	SM2510B	1	413			umhos/cm	1	10	04/14/17 17:18	abd
Fluoride	M300.0 - Ion Chromatography	1	0.30			mg/L	0.05	0.25	04/25/17 18:04	krh
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1		U	*	mg/L	0.02	0.1	04/28/17 0:09	pjb
Nitrogen, ammonia	M350.1 Auto Salicylate w/gas diffusion	1		U	*	mg/L	0.05	0.2	04/26/17 12:17	spl
Nitrogen, organic	M351.2 & M350.1 - TKN minus NH3			U		mg/L	0.1	0.5	05/25/17 0:00	calc
Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	1		U	*	mg/L	0.1	0.5	04/27/17 23:48	pjb
Phosphorus, ortho dissolved	M365.1 - Automated Ascorbic Acid	1		U	*	mg/L	0.02	0.05	04/12/17 19:37	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	230		*	mg/L	10	20	04/14/17 16:37	emk
Residue, Non-Filterable (TSS) @105C	SM2540D	1		U	*	mg/L	5	20	04/14/17 16:20	emk
Sulfate	M300.0 - Ion Chromatography	1	18.2		*	mg/L	0.5	2.5	04/25/17 18:04	krh
Sulfide as S	SM4500S2-D	1		U	*	mg/L	0.02	0.1	04/17/17 12:26	abd

Arizona license number: AZ0102

Report Header Explanations

<i>Batch</i>	A distinct set of samples analyzed at a specific time
<i>Found</i>	Value of the QC Type of interest
<i>Limit</i>	Upper limit for RPD, in %.
<i>Lower</i>	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
<i>MDL</i>	Method Detection Limit. Same as Minimum Reporting Limit unless omitted or equal to the PQL (see comment #5). Allows for instrument and annual fluctuations.
<i>PCN/SCN</i>	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
<i>PQL</i>	Practical Quantitation Limit. Synonymous with the EPA term "minimum level".
<i>QC</i>	True Value of the Control Sample or the amount added to the Spike
<i>Rec</i>	Recovered amount of the true value or spike added, in % (except for LCSS, mg/Kg)
<i>RPD</i>	Relative Percent Difference, calculation used for Duplicate QC Types
<i>Upper</i>	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
<i>Sample</i>	Value of the Sample of interest

QC Sample Types

<i>AS</i>	Analytical Spike (Post Digestion)	<i>LCSWD</i>	Laboratory Control Sample - Water Duplicate
<i>ASD</i>	Analytical Spike (Post Digestion) Duplicate	<i>LFB</i>	Laboratory Fortified Blank
<i>CCB</i>	Continuing Calibration Blank	<i>LFM</i>	Laboratory Fortified Matrix
<i>CCV</i>	Continuing Calibration Verification standard	<i>LFMD</i>	Laboratory Fortified Matrix Duplicate
<i>DUP</i>	Sample Duplicate	<i>LRB</i>	Laboratory Reagent Blank
<i>ICB</i>	Initial Calibration Blank	<i>MS</i>	Matrix Spike
<i>ICV</i>	Initial Calibration Verification standard	<i>MSD</i>	Matrix Spike Duplicate
<i>ICSAB</i>	Inter-element Correction Standard - A plus B solutions	<i>PBS</i>	Prep Blank - Soil
<i>LCSS</i>	Laboratory Control Sample - Soil	<i>PBW</i>	Prep Blank - Water
<i>LCSSD</i>	Laboratory Control Sample - Soil Duplicate	<i>PQV</i>	Practical Quantitation Verification standard
<i>LCSW</i>	Laboratory Control Sample - Water	<i>SDL</i>	Serial Dilution

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method or calibration procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Spikes/Fortified Matrix	Determines sample matrix interferences, if any.
Standard	Verifies the validity of the calibration.

ACZ Qualifiers (Qual)

B	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
L	Target analyte response was below the laboratory defined negative threshold.
U	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

Method References

- (1) EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
- (2) EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
- (3) EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.
- (4) EPA SW-846. Test Methods for Evaluating Solid Waste.
- (5) Standard Methods for the Examination of Water and Wastewater.

Comments

- (1) QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
- (2) Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
- (3) Animal matrices for Inorganic analyses are reported on an "as received" basis.
- (4) An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.
- (5) If the MDL equals the PQL or the MDL column is omitted, the PQL is the reporting limit.

For a complete list of ACZ's Extended Qualifiers, please click:

<http://www.acz.com/public/extqualist.pdf>

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L36538**

Alkalinity as CaCO3

SM2320B - Titration

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG421199													
WG421199PBW1	PBW	04/14/17 15:35				U	mg/L		-20	20			
WG421199LCSW3	LCSW	04/14/17 15:52	WC170411-7	820.0001		804	mg/L	98	90	110			
L36558-01DUP	DUP	04/14/17 18:32			1040	1030	mg/L				1	20	
WG421199LCSW6	LCSW	04/14/17 18:50	WC170411-7	820.0001		807	mg/L	98	90	110			
WG421199PBW2	PBW	04/14/17 18:56				U	mg/L		-20	20			
WG421199LCSW9	LCSW	04/14/17 22:51	WC170411-7	820.0001		811	mg/L	99	90	110			
WG421199PBW3	PBW	04/14/17 22:59				U	mg/L		-20	20			
WG421199LCSW12	LCSW	04/15/17 2:17	WC170411-7	820.0001		813	mg/L	99	90	110			
WG421199PBW4	PBW	04/15/17 2:23				U	mg/L		-20	20			
WG421199LCSW15	LCSW	04/15/17 5:04	WC170411-7	820.0001		819	mg/L	100	90	110			

Aluminum, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG421734													
WG421734ICV	ICV	04/25/17 22:21	II170411-1	2		2.004	mg/L	100	95	105			
WG421734ICB	ICB	04/25/17 22:27				U	mg/L		-0.09	0.09			
WG421632LRB	LRB	04/25/17 22:40				.045	mg/L		-0.066	0.066			
WG421632LFB	LFB	04/25/17 22:43	II170417-4	1.0013		1.078	mg/L	108	85	115			
L36629-02LFM	LFM	04/25/17 23:05	II170417-4	1.0013	.15	1.341	mg/L	119	70	130			
L36629-02LFMD	LFMD	04/25/17 23:08	II170417-4	1.0013	.15	1.373	mg/L	122	70	130	2	20	

Antimony, total recoverable

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG421286													
WG421286ICV	ICV	04/17/17 16:47	MS170404-2	.02		.01799	mg/L	90	90	110			
WG421286ICB	ICB	04/17/17 16:50				.00069	mg/L		-0.0012	0.0012			
WG421137LRB	LRB	04/17/17 17:00				U	mg/L		-0.00088	0.00088			
WG421137LFB	LFB	04/17/17 17:03	MS170321-3	.009980001		.0121	mg/L	121	85	115			LA
L36538-02LFM	LFM	04/17/17 17:18	MS170321-3	.009980001	U	.01241	mg/L	124	70	130			
L36538-02LFMD	LFMD	04/17/17 17:21	MS170321-3	.009980001	U	.01254	mg/L	126	70	130	1	20	
WG421347													
WG421347ICV	ICV	04/18/17 17:58	MS170404-2	.02		.01792	mg/L	90	90	110			
WG421347ICB	ICB	04/18/17 18:00				U	mg/L		-0.0012	0.0012			
WG421057LRB	LRB	04/18/17 18:02				U	mg/L		-0.00088	0.00088			
WG421057LFB	LFB	04/18/17 18:04	MS170321-3	.009980001		.01048	mg/L	105	85	115			
WG421137LRB	LRB	04/18/17 18:18				U	mg/L		-0.00088	0.00088			
WG421137LFB	LFB	04/18/17 18:20	MS170321-3	.009980001		.01028	mg/L	103	85	115			
L36538-02LFM	LFM	04/18/17 18:30	MS170321-3	.009980001	U	.01024	mg/L	103	70	130			
L36538-02LFMD	LFMD	04/18/17 18:32	MS170321-3	.009980001	U	.01047	mg/L	105	70	130	2	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L36538

Arsenic, total recoverable M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG421286													
WG421286ICV	ICV	04/17/17 16:47	MS170404-2	.05		.05083	mg/L	102	90	110			
WG421286ICB	ICB	04/17/17 16:50				U	mg/L		-0.0006	0.0006			
WG421137LRB	LRB	04/17/17 17:00				U	mg/L		-0.00044	0.00044			
WG421137LFB	LFB	04/17/17 17:03	MS170321-3	.0501		.05029	mg/L	100	85	115			
L36538-02LFM	LFM	04/17/17 17:18	MS170321-3	.0501	.0025	.05218	mg/L	99	70	130			
L36538-02LFMD	LFMD	04/17/17 17:21	MS170321-3	.0501	.0025	.05269	mg/L	100	70	130	1	20	

Barium, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG421734													
WG421734ICV	ICV	04/25/17 22:21	II170411-1	2		1.9855	mg/L	99	95	105			
WG421734ICB	ICB	04/25/17 22:27				U	mg/L		-0.009	0.009			
WG421632LRB	LRB	04/25/17 22:40				U	mg/L		-0.0066	0.0066			
WG421632LFB	LFB	04/25/17 22:43	II170417-4	.5015		.5048	mg/L	101	85	115			
L36629-02LFM	LFM	04/25/17 23:05	II170417-4	.5015	.022	.5381	mg/L	103	70	130			
L36629-02LFMD	LFMD	04/25/17 23:08	II170417-4	.5015	.022	.5428	mg/L	104	70	130	1	20	

Beryllium, total recoverable M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG421286													
WG421286ICV	ICV	04/17/17 16:47	MS170404-2	.05		.04882	mg/L	98	90	110			
WG421286ICB	ICB	04/17/17 16:50				U	mg/L		-0.00015	0.00015			
WG421137LRB	LRB	04/17/17 17:00				U	mg/L		-0.00011	0.00011			
WG421137LFB	LFB	04/17/17 17:03	MS170321-3	.05035		.0469	mg/L	93	85	115			
L36538-02LFM	LFM	04/17/17 17:18	MS170321-3	.05035	U	.04857	mg/L	96	70	130			
L36538-02LFMD	LFMD	04/17/17 17:21	MS170321-3	.05035	U	.04943	mg/L	98	70	130	2	20	

Biochemical Oxygen Demand (5 day) SM5210B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG421063													
WG421063LCSW1	LCSW	04/12/17 17:44	BODLCSW	198		176	mg/L	89	84.6	115.4			
WG421063LCSW2	LCSW	04/12/17 17:49	BODLCSW	198		181.5	mg/L	92	84.6	115.4			
WG421063LCSW3	LCSW	04/12/17 17:54	BODLCSW	198		178	mg/L	90	84.6	115.4			

Boron, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG421734													
WG421734ICV	ICV	04/25/17 22:21	II170411-1	2		1.942	mg/L	97	95	105			
WG421734ICB	ICB	04/25/17 22:27				U	mg/L		-0.03	0.03			
WG421632LRB	LRB	04/25/17 22:40				U	mg/L		-0.022	0.022			
WG421632LFB	LFB	04/25/17 22:43	II170417-4	.5005		.48	mg/L	96	85	115			
L36629-02LFM	LFM	04/25/17 23:05	II170417-4	.5005	.13	.631	mg/L	100	70	130			
L36629-02LFMD	LFMD	04/25/17 23:08	II170417-4	.5005	.13	.629	mg/L	100	70	130	0	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L36538

Cadmium, total recoverable M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG421286													
WG421286ICV	ICV	04/17/17 16:47	MS170404-2	.05		.04995	mg/L	100	90	110			
WG421286ICB	ICB	04/17/17 16:50				U	mg/L		-0.0003	0.0003			
WG421137LRB	LRB	04/17/17 17:00				U	mg/L		-0.00022	0.00022			
WG421137LFB	LFB	04/17/17 17:03	MS170321-3	05005		.04767	mg/L	95	85	115			
L36538-02LFM	LFM	04/17/17 17:18	MS170321-3	.05005	U	.04756	mg/L	95	70	130			
L36538-02LFMD	LFMD	04/17/17 17:21	MS170321-3	.05005	U	.048	mg/L	96	70	130	1	20	

Calcium, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG421734													
WG421734ICV	ICV	04/25/17 22:21	II170411-1	100		100.05	mg/L	100	95	105			
WG421734ICB	ICB	04/25/17 22:27				U	mg/L		-0.3	0.3			
WG421632LRB	LRB	04/25/17 22:40				U	mg/L		-0.22	0.22			
WG421632LFB	LFB	04/25/17 22:43	II170417-4	68.01207		71.82	mg/L	106	85	115			
L36629-02LFM	LFM	04/25/17 23:05	II170417-4	68.01207	232	301.3	mg/L	102	70	130			
L36629-02LFMD	LFMD	04/25/17 23:08	II170417-4	68.01207	232	300.5	mg/L	101	70	130	0	20	

Chemical Oxygen Demand M410.4

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG421553													
WG421553ICV	ICV	04/21/17 9:45	WC161013-8	200		184	mg/L	92	90	110			
WG421553ICB	ICB	04/21/17 9:54				U	mg/L		-10	10			
WG421553LRB	LRB	04/21/17 10:04				U	mg/L		-10	10			
WG421553LFB	LFB	04/21/17 10:14	WC161013-7	50		46	mg/L	92	90	110			
L36570-01DUP	DUP	04/21/17 12:11			U	U	mg/L				0	20	RA
L36570-01AS	AS	04/21/17 12:21	WC161013-7	50	U	58	mg/L	116	90	110			M1

Chloride M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG417228													
WG417228ICV	ICV	01/31/17 16:14	WI170131-9	20.02		19.6	mg/L	98	90	110			
WG417228ICB	ICB	01/31/17 16:32				U	mg/L		-0.5	0.5			
WG421738													
WG421738LFB1	LFB	04/25/17 16:34	WI170304-2	30		30.4	mg/L	101	90	110			
L36538-01AS	AS	04/25/17 17:46	WI170304-2	150	32	186	mg/L	103	90	110			
WG421738LFB2	LFB	04/26/17 1:15	WI170304-2	30		30.5	mg/L	102	90	110			
L36429-01DUP	DUP	04/28/17 17:09			5.73	5.65	mg/L				1	20	

Chromium, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG421734													
WG421734ICV	ICV	04/25/17 22:21	II170411-1	2		1.909	mg/L	95	95	105			
WG421734ICB	ICB	04/25/17 22:27				U	mg/L		-0.03	0.03			
WG421632LRB	LRB	04/25/17 22:40				U	mg/L		-0.022	0.022			
WG421632LFB	LFB	04/25/17 22:43	II170417-4	.5025		.497	mg/L	99	85	115			
L36629-02LFM	LFM	04/25/17 23:05	II170417-4	.5025	U	.488	mg/L	97	70	130			
L36629-02LFMD	LFMD	04/25/17 23:08	II170417-4	.5025	U	.485	mg/L	97	70	130	1	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L36538**

Cobalt, total recoverable M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG421286													
WG421286ICV	ICV	04/17/17 16:47	MS170404-2	.05		.05341	mg/L	107	90	110			
WG421286ICB	ICB	04/17/17 16:50				U	mg/L		-0.00015	0.00015			
WG421137LRB	LRB	04/17/17 17:00				U	mg/L		-0.00011	0.00011			
WG421137LFB	LFB	04/17/17 17:03	MS170321-3	.05005		.05016	mg/L	100	85	115			
L36538-02LFM	LFM	04/17/17 17:18	MS170321-3	.05005	.00023	.04912	mg/L	98	70	130			
L36538-02LFMD	LFMD	04/17/17 17:21	MS170321-3	.05005	.00023	.04922	mg/L	98	70	130	0	20	

Conductivity @25C SM2510B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG421199													
WG421199LCSW2	LCSW	04/14/17 15:39	PCN52897	1408		1500	umhos/cm	107	90	110			
L36558-01DUP	DUP	04/14/17 18:32			1810	1850	umhos/cm				2	20	
WG421199LCSW5	LCSW	04/14/17 18:37	PCN52897	1408		1430	umhos/cm	102	90	110			
WG421199LCSW8	LCSW	04/14/17 22:39	PCN52897	1408		1420	umhos/cm	101	90	110			
WG421199LCSW11	LCSW	04/15/17 2:04	PCN52897	1408		1420	umhos/cm	101	90	110			
WG421199LCSW14	LCSW	04/15/17 4:51	PCN52897	1408		1430	umhos/cm	102	90	110			

Copper, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG421734													
WG421734ICV	ICV	04/25/17 22:21	II170411-1	2		1.991	mg/L	100	95	105			
WG421734ICB	ICB	04/25/17 22:27				U	mg/L		-0.03	0.03			
WG421632LRB	LRB	04/25/17 22:40				U	mg/L		-0.022	0.022			
WG421632LFB	LFB	04/25/17 22:43	II170417-4	.5005		.522	mg/L	104	85	115			
L36629-02LFM	LFM	04/25/17 23:05	II170417-4	.5005	U	.519	mg/L	104	70	130			
L36629-02LFMD	LFMD	04/25/17 23:08	II170417-4	.5005	U	.521	mg/L	104	70	130	0	20	

Fluoride M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG417228													
WG417228ICV	ICV	01/31/17 16:14	WI170131-9	3.996		3.99	mg/L	100	90	110			
WG421738													
WG421738LFB1	LFB	04/25/17 16:34	WI170304-2	1.5		1.61	mg/L	107	90	110			
L36429-01DUP	DUP	04/25/17 17:10			7.8	7.79	mg/L				0	20	
L38538-01AS	AS	04/25/17 17:46	WI170304-2	7.5	.36	8.36	mg/L	107	90	110			
WG421738LFB2	LFB	04/26/17 1:15	WI170304-2	1.5		1.59	mg/L	106	90	110			

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L36538**

Iron, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG421734													
WG421734ICV	ICV	04/25/17 22:21	II170411-1	2		1.954	mg/L	98	95	105			
WG421734ICB	ICB	04/25/17 22:27				U	mg/L		-0.06	0.06			
WG421632LRB	LRB	04/25/17 22:40				.055	mg/L		-0.044	0.044			B7 BF
WG421632LFB	LFB	04/25/17 22:43	II170417-4	1.0017		1.028	mg/L	103	85	115			
L36629-02LFM	LFM	04/25/17 23:05	II170417-4	1.0017	.21	1.188	mg/L	98	70	130			
L36629-02LFMD	LFMD	04/25/17 23:08	II170417-4	1.0017	.21	1.208	mg/L	100	70	130	2	20	
WG421821													
WG421821ICV	ICV	04/26/17 10:57	II170411-1	2		1.962	mg/L	98	95	105			
WG421821ICB	ICB	04/26/17 11:03				U	mg/L		-0.06	0.06			
WG421632LRB	LRB	04/26/17 11:15				U	mg/L		-0.044	0.044			
WG421632LFB	LFB	04/26/17 11:18	II170417-4	1.0017		1.004	mg/L	100	85	115			
L36629-02LFM	LFM	04/26/17 11:33	II170417-4	1.0017	.21	1.191	mg/L	98	70	130			
L36629-02LFMD	LFMD	04/26/17 11:36	II170417-4	1.0017	.21	1.191	mg/L	98	70	130	0	20	

Lead, total recoverable

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG421286													
WG421286ICV	ICV	04/17/17 16:47	MS170404-2	.05		05297	mg/L	106	90	110			
WG421286ICB	ICB	04/17/17 16:50				U	mg/L		-0.0003	0.0003			
WG421137LRB	LRB	04/17/17 17:00				U	mg/L		-0.00022	0.00022			
WG421137LFB	LFB	04/17/17 17:03	MS170321-3	0501		04914	mg/L	98	85	115			
L36538-02LFM	LFM	04/17/17 17:18	MS170321-3	0501	.0205	07208	mg/L	103	70	130			
L36538-02LFMD	LFMD	04/17/17 17:21	MS170321-3	.0501	.0205	07239	mg/L	104	70	130	0	20	

Magnesium, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG421734													
WG421734ICV	ICV	04/25/17 22:21	II170411-1	100		100.48	mg/L	100	95	105			
WG421734ICB	ICB	04/25/17 22:27				U	mg/L		-0.6	0.6			
WG421632LRB	LRB	04/25/17 22:40				U	mg/L		-0.44	0.44			
WG421632LFB	LFB	04/25/17 22:43	II170417-4	50.01344		48.98	mg/L	98	85	115			
L36629-02LFM	LFM	04/25/17 23:05	II170417-4	50.01344	162	209.4	mg/L	95	70	130			
L36629-02LFMD	LFMD	04/25/17 23:08	II170417-4	50.01344	162	208.4	mg/L	93	70	130	0	20	

Manganese, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG421734													
WG421734ICV	ICV	04/25/17 22:21	II170411-1	2		1.9123	mg/L	96	95	105			
WG421734ICB	ICB	04/25/17 22:27				U	mg/L		-0.015	0.015			
WG421632LRB	LRB	04/25/17 22:40				.0093	mg/L		-0.011	0.011			
WG421632LFB	LFB	04/25/17 22:43	II170417-4	5		.5106	mg/L	102	85	115			
L36629-02LFM	LFM	04/25/17 23:05	II170417-4	5	.791	1.294	mg/L	101	70	130			
L36629-02LFMD	LFMD	04/25/17 23:08	II170417-4	5	.791	1.293	mg/L	100	70	130	0	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L36538

Mercury, total M245.1 CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG421485													
WG421485ICV	ICV	04/21/17 12:50	HG170127-2	.005005		.00522	mg/L	104	95	105			
WG421485ICB	ICB	04/21/17 12:51				U	mg/L		-0.0002	0.0002			
WG421560													
WG421560LRB	LRB	04/21/17 16:14				U	mg/L		-0.00044	0.00044			
WG421560LFB	LFB	04/21/17 16:15	HG170412-7	.002002		.00195	mg/L	97	85	115			
L36630-06LFM	LFM	04/21/17 16:27	HG170412-7	.002002	U	.00195	mg/L	97	85	115			
L36630-06LFMD	LFMD	04/21/17 16:28	HG170412-7	.002002	U	.00191	mg/L	95	85	115	2	20	

Molybdenum, total recoverable M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG421286													
WG421286ICV	ICV	04/17/17 16:47	MS170404-2	.01998		.01917	mg/L	96	90	110			
WG421286ICB	ICB	04/17/17 16:50				U	mg/L		-0.0015	0.0015			
WG421137LRB	LRB	04/17/17 17:00				U	mg/L		-0.0011	0.0011			
WG421137LFB	LFB	04/17/17 17:03	MS170321-3	.0501		.04795	mg/L	96	85	115			
L36538-02LFM	LFM	04/17/17 17:18	MS170321-3	.0501	.0008	.05012	mg/L	98	70	130			
L36538-02LFMD	LFMD	04/17/17 17:21	MS170321-3	.0501	.0008	.05083	mg/L	100	70	130	1	20	

Nickel, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG421734													
WG421734ICV	ICV	04/25/17 22:21	II170411-1	2.002		2.0582	mg/L	103	95	105			
WG421734ICB	ICB	04/25/17 22:27				U	mg/L		-0.024	0.024			
WG421632LRB	LRB	04/25/17 22:40				U	mg/L		-0.0176	0.0176			
WG421632LFB	LFB	04/25/17 22:43	II170417-4	.498		.5111	mg/L	103	85	115			
L36629-02LFM	LFM	04/25/17 23:05	II170417-4	.498	U	.5163	mg/L	104	70	130			
L36629-02LFMD	LFMD	04/25/17 23:08	II170417-4	.498	U	.51	mg/L	102	70	130	1	20	

Nitrate/Nitrite as N M353.2 - H2SO4 preserved

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG421982													
WG421982ICV	ICV	04/27/17 19:54	WI170310-3	2.416		2.299	mg/L	95	90	110			
WG421982ICB	ICB	04/27/17 19:56				U	mg/L		-0.02	0.02			
WG421987													
WG421987LFB1	LFB	04/27/17 23:16	WI170104-22	2		1.958	mg/L	98	90	110			
WG421987LFB2	LFB	04/27/17 23:56	WI170104-22	2		1.948	mg/L	97	90	110			
L36538-01AS	AS	04/28/17 0:07	WI170104-22	20	13.1	32.98	mg/L	99	90	110			
L36538-02DUP	DUP	04/28/17 0:10			U	U	mg/L				0	20	RA

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L36538

Nitrogen, ammonia M350.1 Auto Salicylate w/gas diffusion

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG421832													
WG421832ICV	ICV	04/26/17 12:10	WI170404-1	11.988		12.597	mg/L	105	90	110			
WG421832ICB	ICB	04/26/17 12:12				U	mg/L		-0.05	0.05			
WG421832LFB1	LFB	04/26/17 12:13	WI170420-10	10		10.552	mg/L	106	90	110			
L36538-01AS	AS	04/26/17 12:16	WI170420-10	10	4.77	15.381	mg/L	106	90	110			
L36538-02DUP	DUP	04/26/17 12:19			U	U	mg/L				0	20	RA
WG421832LFB2	LFB	04/26/17 12:54	WI170420-10	10		10.431	mg/L	104	90	110			
WG421832LFB2	LFB	04/26/17 13:17	WI170420-10	10		10.079	mg/L	101	90	110			
WG421832ICV1	ICV	04/26/17 15:06	WI170404-1	11.988		11.844	mg/L	99	90	110			
WG421832ICB1	ICB	04/26/17 15:08				U	mg/L		-0.05	0.05			

Nitrogen, total Kjeldahl M351.2 - TKN by Block Digester

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG421986													
WG421986ICV	ICV	04/27/17 23:38	WI170330-3	4		4.04	mg/L	101	90	110			
WG421986ICB	ICB	04/27/17 23:39				U	mg/L		-0.1	0.1			
WG421909LRB1	LRB	04/27/17 23:40				U	mg/L		-0.1	0.1			
WG421909LFB1	LFB	04/27/17 23:42	WI170331-4	2.5		2.48	mg/L	99	90	110			
L36538-02DUP	DUP	04/27/17 23:50			U	U	mg/L				0	20	RA
WG421986ICV1	ICV	04/28/17 0:47	WI170330-3	4		4	mg/L	100	90	110			
WG421986ICB1	ICB	04/28/17 0:49				U	mg/L		-0.1	0.1			
WG421909LRB2	LRB	04/28/17 1:10				U	mg/L		-0.1	0.1			
WG421909LFB2	LFB	04/28/17 1:11	WI170331-4	2.5		2.31	mg/L	92	90	110			
L36538-01LFM	LFM	04/28/17 1:48	WI170331-4	2.5	4.9	7.34	mg/L	98	90	110			

Phosphorus, ortho dissolved M365.1 - Automated Ascorbic Acid

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG421069													
WG421069ICV	ICV	04/12/17 19:27	WI160503-9	.6523		.655	mg/L	100	90	110			
WG421069ICB	ICB	04/12/17 19:28				U	mg/L		-0.02	0.02			
WG421069LFB	LFB	04/12/17 19:32	WI170403-7	.5		.492	mg/L	98	90	110			
L36538-01AS	AS	04/12/17 19:36	WI170403-7	.5	U	.514	mg/L	103	90	110			
L36538-02DUP	DUP	04/12/17 19:38			U	U	mg/L				0	20	RA

Potassium, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG421734													
WG421734ICV	ICV	04/25/17 22:21	II170411-1	20		19.75	mg/L	99	95	105			
WG421734ICB	ICB	04/25/17 22:27				U	mg/L		-0.6	0.6			
WG421632LRB	LRB	04/25/17 22:40				U	mg/L		-0.44	0.44			
WG421632LFB	LFB	04/25/17 22:43	II170417-4	99.98315		101.3	mg/L	101	85	115			
L36629-02LFM	LFM	04/25/17 23:05	II170417-4	99.98315	4.9	109.1	mg/L	104	70	130			
L36629-02LFMD	LFMD	04/25/17 23:08	II170417-4	99.98315	4.9	110.6	mg/L	106	70	130	1	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L36538

Residue, Filterable (TDS) @180C SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG421201													
WG421201PBW	PBW	04/14/17 15:00				U	mg/L		-20	20			
WG421201LCSW	LCSW	04/14/17 15:02	PCN52656	260		250	mg/L	96	80	120			
L36542-03DUP	DUP	04/14/17 15:31			2780	2810	mg/L				1	10	
WG421214													
WG421214PBW	PBW	04/14/17 16:30				U	mg/L		-20	20			
WG421214LCSW	LCSW	04/14/17 16:32	PCN52656	260		254	mg/L	98	80	120			
L36615-02DUP	DUP	04/14/17 17:30			4520	4530	mg/L				0	10	
WG421277													
WG421277PBW	PBW	04/17/17 15:15				U	mg/L		-20	20			
WG421277LCSW	LCSW	04/17/17 15:16	PCN52656	260		258	mg/L	99	80	120			
L36582-02DUP	DUP	04/17/17 15:30			30	36	mg/L				18	10	RA

Residue, Non-Filterable (TSS) @105C SM2540D

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG421202													
WG421202PBW	PBW	04/14/17 16:00				U	mg/L		-15	15			
WG421202LCSW	LCSW	04/14/17 16:02	PCN52656	160		152	mg/L	95	80	120			
L36531-11DUP	DUP	04/14/17 16:28			22	18	mg/L				20	10	RA

Selenium, total recoverable M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG421286													
WG421286ICV	ICV	04/17/17 16:47	MS170404-2	.05		.05226	mg/L	105	90	110			
WG421286ICB	ICB	04/17/17 16:50				U	mg/L		-0.0003	0.0003			
WG421137LRB	LRB	04/17/17 17:00				U	mg/L		-0.00022	0.00022			
WG421137LFB	LFB	04/17/17 17:03	MS170321-3	.05005		.04957	mg/L	99	85	115			
L36538-02LFM	LFM	04/17/17 17:18	MS170321-3	.05005	.0006	.05164	mg/L	102	70	130			
L36538-02LFMD	LFMD	04/17/17 17:21	MS170321-3	.05005	.0006	.04949	mg/L	98	70	130	4	20	

Silica, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG421734													
WG421734ICV	ICV	04/25/17 22:21	II170411-1	42.8		40.91	mg/L	96	95	105			
WG421734ICB	ICB	04/25/17 22:27				U	mg/L		-0.6	0.6			
WG421632LRB	LRB	04/25/17 22:40				U	mg/L		-0.44	0.44			
WG421632LFB	LFB	04/25/17 22:43	II170417-4	21.415		20.7	mg/L	97	85	115			
L36629-02LFM	LFM	04/25/17 23:05	II170417-4	21.415	7.3	20.26	mg/L	61	70	130			M2
L36629-02LFMD	LFMD	04/25/17 23:08	II170417-4	21.415	7.3	28.72	mg/L	100	70	130	35	20	RS

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L36538**

Silver, total recoverable M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG421286													
WG421286ICV	ICV	04/17/17 16:47	MS170404-2	.02004		.01989	mg/L	99	90	110			
WG421286ICB	ICB	04/17/17 16:50				U	mg/L		-0.00015	0.00015			
WG421137LRB	LRB	04/17/17 17:00				U	mg/L		-0.00011	0.00011			
WG421137LFB	LFB	04/17/17 17:03	MS170321-3	.01001		.009473	mg/L	95	85	115			
L36538-02LFM	LFM	04/17/17 17:18	MS170321-3	.01001	.00007	.009434	mg/L	94	70	130			
L36538-02LFMD	LFMD	04/17/17 17:21	MS170321-3	.01001	.00007	.009493	mg/L	94	70	130	1	20	

Sodium, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG421734													
WG421734ICV	ICV	04/25/17 22:21	II170411-1	100		100.65	mg/L	101	95	105			
WG421734ICB	ICB	04/25/17 22:27				U	mg/L		-0.6	0.6			
WG421632LRB	LRB	04/25/17 22:40				U	mg/L		-0.44	0.44			
WG421632LFB	LFB	04/25/17 22:43	II170417-4	100.0511		103.6	mg/L	104	85	115			
L36629-02LFM	LFM	04/25/17 23:05	II170417-4	100.0511	99.5	205.4	mg/L	106	70	130			
L36629-02LFMD	LFMD	04/25/17 23:08	II170417-4	100.0511	99.5	205.6	mg/L	106	70	130	0	20	

Sulfate M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG417228													
WG417228ICV	ICV	01/31/17 16:14	WI170131-9	50		50.3	mg/L	101	90	110			
WG417228ICB	ICB	01/31/17 16:32				U	mg/L		-0.5	0.5			
WG421738													
WG421738LFB1	LFB	04/25/17 16:34	WI170304-2	30		30	mg/L	100	90	110			
L36538-01AS	AS	04/25/17 17:46	WI170304-2	150	146	323	mg/L	118	90	110			M1
WG421738LFB2	LFB	04/26/17 1:15	WI170304-2	30		29.7	mg/L	99	90	110			
L36429-01DUP	DUP	04/28/17 17:09			2.77	2.74	mg/L				1	20	RA

Sulfide as S SM4500S2-D

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG421256													
WG421256ICV	ICV	04/17/17 12:15	WC170417-3	.35734		.38	mg/L	106	90	110			
WG421256ICB	ICB	04/17/17 12:17				U	mg/L		-0.06	0.06			
WG421256LFB	LFB	04/17/17 12:19	WC170417-6	.2631067		.297	mg/L	113	80	120			
L36566-03AS	AS	04/17/17 12:50	WC170417-6	.2631067	U	.3	mg/L	114	75	125			
L36566-03DUP	DUP	04/17/17 12:52			U	U	mg/L				0	20	RA

Thallium, total recoverable M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG421286													
WG421286ICV	ICV	04/17/17 16:47	MS170404-2	.05		.05452	mg/L	109	90	110			
WG421286ICB	ICB	04/17/17 16:50				U	mg/L		-0.0003	0.0003			
WG421137LRB	LRB	04/17/17 17:00				U	mg/L		-0.00022	0.00022			
WG421137LFB	LFB	04/17/17 17:03	MS170321-3	.0501		.04983	mg/L	99	85	115			
L36538-02LFM	LFM	04/17/17 17:18	MS170321-3	.0501	U	.05107	mg/L	102	70	130			
L36538-02LFMD	LFMD	04/17/17 17:21	MS170321-3	.0501	U	.05096	mg/L	102	70	130	0	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L36538

Tin, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG421734													
WG421734ICV	ICV	04/25/17 22:21	II170411-1	2		2.016	mg/L	101	95	105			
WG421734ICB	ICB	04/25/17 22:27				U	mg/L		-0.12	0.12			
WG421632LRB	LRB	04/25/17 22:40				U	mg/L		-0.088	0.088			
WG421632LFB	LFB	04/25/17 22:43	II170417-4	1.001		.993	mg/L	99	85	115			
L36629-02LFM	LFM	04/25/17 23:05	II170417-4	1.001	U	1	mg/L	100	70	130			
L36629-02LFMD	LFMD	04/25/17 23:08	II170417-4	1.001	U	.978	mg/L	98	70	130	2	20	

Uranium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG421739													
WG421739ICV	ICV	04/25/17 12:17	MS170420-2	.05		.04867	mg/L	97	90	110			
WG421739ICB	ICB	04/25/17 12:20				U	mg/L		-0.0003	0.0003			
WG421739LFB	LFB	04/25/17 12:24	MS170321-3	.05		.04737	mg/L	95	85	115			
L36569-05AS	AS	04/25/17 13:06	MS170321-3	2.5	U	2.372	mg/L	95	70	130			
L36569-05ASD	ASD	04/25/17 13:09	MS170321-3	2.5	U	2.38	mg/L	95	70	130	0	20	

Uranium, total recoverable M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG421286													
WG421286ICV	ICV	04/17/17 16:47	MS170404-2	.05		.05198	mg/L	104	90	110			
WG421286ICB	ICB	04/17/17 16:50				U	mg/L		-0.0003	0.0003			
WG421137LRB	LRB	04/17/17 17:00				U	mg/L		-0.00022	0.00022			
WG421137LFB	LFB	04/17/17 17:03	MS170321-3	.05		.05003	mg/L	100	85	115			
L36538-02LFM	LFM	04/17/17 17:18	MS170321-3	.05	.0122	.06415	mg/L	104	70	130			
L36538-02LFMD	LFMD	04/17/17 17:21	MS170321-3	.05	.0122	.06416	mg/L	104	70	130	0	20	

Vanadium, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG421734													
WG421734ICV	ICV	04/25/17 22:21	II170411-1	2		2.0382	mg/L	102	95	105			
WG421734ICB	ICB	04/25/17 22:27				.0072	mg/L		-0.015	0.015			
WG421632LRB	LRB	04/25/17 22:40				.0056	mg/L		-0.011	0.011			
WG421632LFB	LFB	04/25/17 22:43	II170417-4	.4985		.5343	mg/L	107	85	115			
L36629-02LFM	LFM	04/25/17 23:05	II170417-4	.4985	U	.5217	mg/L	105	70	130			
L36629-02LFMD	LFMD	04/25/17 23:08	II170417-4	.4985	U	.5315	mg/L	107	70	130	2	20	

Zinc, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG421734													
WG421734ICV	ICV	04/25/17 22:21	II170411-1	2		1.961	mg/L	98	95	105			
WG421734ICB	ICB	04/25/17 22:27				U	mg/L		-0.03	0.03			
WG421632LRB	LRB	04/25/17 22:40				U	mg/L		-0.022	0.022			
WG421632LFB	LFB	04/25/17 22:43	II170417-4	.4942		.523	mg/L	106	85	115			
L36629-02LFM	LFM	04/25/17 23:05	II170417-4	.4942	U	.505	mg/L	102	70	130			
L36629-02LFMD	LFMD	04/25/17 23:08	II170417-4	.4942	U	.507	mg/L	103	70	130	0	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L36538**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L36538-01	WG421063	Biochemical Oxygen Demand (5 day)	SM5210B	KA	The seed depletion was outside the method acceptance limits, the DO-axis intercept is > 0.2 mg/L. The reported result is an estimated value.
	WG421553	Chemical Oxygen Demand	M410.4	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M410.4	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG421738	Fluoride	M300.0 - Ion Chromatography	DC	Sample required dilution. Non-target analyte exceeded calibration range.
	WG421987	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG421832	Nitrogen, ammonia	M350.1 Auto Salicylate w/gas diffusion	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG421986	Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG421069	Phosphorus, ortho dissolved	M365.1 - Automated Ascorbic Acid	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG421202	Residue, Non-Filterable (TSS) @105C	SM2540D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG421734	Silica, total recoverable	M200.7 ICP	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M200.7 ICP	RS	RPD of matrix spikes for total or total recoverable silica is outside acceptance limits. Acceptable precision for other metals indicates silica RPD failure may be attributed to digestion-triggered silica polymerization and precipitation.
			M200.7 ICP	ZS	Digestion procedures have the potential to trigger silica polymerization and precipitation, leading to low biased results. Silica chemistry is complex and polymerization kinetics are unpredictable. Dissolved and/or acid soluble silica analyses may provide more accurate measurements.
	WG421738	Sulfate	M300.0 - Ion Chromatography	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG421256	Sulfide as S	SM4500S2-D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L36538

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L36538-02	WG421286	Antimony, total recoverable	M200.8 ICP-MS	LA	Recovery for target analyte in the control sample (LCS or LFB) exceeded the acceptance criteria. Target analyte was not detected in the sample [$<$ MDL].
	WG421063	Biochemical Oxygen Demand (5 day)	SM5210B	KA	The seed depletion was outside the method acceptance limits, the DO-axis intercept is $>$ 0.2 mg/L. The reported result is an estimated value.
	WG421553	Chemical Oxygen Demand	M410.4	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M410.4	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation ($<$ 10x MDL).
	WG421734	Iron, total recoverable	M200.7 ICP	B7	Target analyte detected in prep / method blank at or above acceptance limit. Sample value is $>$ 10X the concentration in the method blank.
	WG421987	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation ($<$ 10x MDL).
	WG421832	Nitrogen, ammonia	M350.1 Auto Salicylate w/gas diffusion	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation ($<$ 10x MDL).
	WG421986	Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation ($<$ 10x MDL).
	WG421069	Phosphorus, ortho dissolved	M365.1 - Automated Ascorbic Acid	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation ($<$ 10x MDL).
	WG421214	Residue, Filterable (TDS) @180C	SM2540C	RO	The duplicate originally assigned to this sample was not used for precision assessment because residue density exceeded the method limits. Another duplicate in the batch was used to assess precision. Method required duplicate frequency was not met.
	WG421202	Residue, Non-Filterable (TSS) @105C	SM2540D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation ($<$ 10x MDL).
	WG421734	Silica, total recoverable	M200.7 ICP	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M200.7 ICP	RS	RPD of matrix spikes for total or total recoverable silica is outside acceptance limits. Acceptable precision for other metals indicates silica RPD failure may be attributed to digestion-triggered silica polymerization and precipitation.
			M200.7 ICP	ZS	Digestion procedures have the potential to trigger silica polymerization and precipitation, leading to low biased results. Silica chemistry is complex and polymerization kinetics are unpredictable. Dissolved and/or acid soluble silica analyses may provide more accurate measurements.
	WG421738	Sulfate	M300.0 - Ion Chromatography	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation ($<$ 10x MDL).
	WG421256	Sulfide as S	SM4500S2-D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation ($<$ 10x MDL).

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L36538

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L36538-03	WG421083	Biochemical Oxygen Demand (5 day)	SM5210B	KA	The seed depletion was outside the method acceptance limits, the DO-axis intercept is > 0.2 mg/L. The reported result is an estimated value.
	WG421553	Chemical Oxygen Demand	M410.4	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M410.4	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG421987	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG421832	Nitrogen, ammonia	M350.1 Auto Salicylate w/gas diffusion	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG421986	Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG421069	Phosphorus, ortho dissolved	M365.1 - Automated Ascorbic Acid	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG421277	Residue, Filterable (TDS) @180C	SM2540C	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG421202	Residue, Non-Filterable (TSS) @105C	SM2540D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG421734	Silica, total recoverable	M200.7 ICP	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M200.7 ICP	RS	RPD of matrix spikes for total or total recoverable silica is outside acceptance limits. Acceptable precision for other metals indicates silica RPD failure may be attributed to digestion-triggered silica polymerization and precipitation.
			M200.7 ICP	ZS	Digestion procedures have the potential to trigger silica polymerization and precipitation, leading to low biased results. Silica chemistry is complex and polymerization kinetics are unpredictable. Dissolved and/or acid soluble silica analyses may provide more accurate measurements.
	WG421738	Sulfate	M300.0 - Ion Chromatography	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG421256	Sulfide as S	SM4500S2-D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).

Energy Fuels Resources (USA) Inc.
 Canyon Monthly 2016

ACZ Project ID: L36538
 Date Received: 04/12/2017 10:20
 Received By:
 Date Printed: 4/12/2017

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody form or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?			X
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody form complete and accurate?	X		
7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples? A change was made in the Sample I.D. Line 1, Line 4 (Whiteout), Line 5 section prior to ACZ custody.	X		

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits? ¹	X		
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?	X		

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp (°C)	Temp Criteria (°C)	Rad (µR/Hr)	Custody Seal Intact?
4249	4	<=6.0	18	Yes

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

Energy Fuels Resources (USA) Inc.
Canyon Monthly 2016

ACZ Project ID: L36538
Date Received: 04/12/2017 10:20
Received By:
Date Printed: 4/12/2017

¹ The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na₂S₂O₃ preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).

Account: EFRC/Energy Fuels Resources (USA)
Bottle Order: BO37210

Bill to Account: Bill to ACZ
Ship Date Requested: 03/24/2017
Request Placed at: 03/22/2017 15:57
Service Requested: UPS Ground

Quote number: CANYON-2016

Canyon Mine groundwater monitoring

Sample Quantity: 11

Client is responsible for necessary field filtering

PACK	Qty	Type	Size	Filter/Preserve	Instructions
<input type="text"/>	1	GREEN CUBE	4 L	✓ Filtered/Nitric	Radiochemistry (dissolved) - Filter sample with .45 micron filter. Do not overfill as there is Nitric Acid in the bottle.
<input type="text"/>	1	GREEN PC	125 ML	✓ Green pre-cleaned Filtered/Nitric	Metals (dissolved including ICPMS) - Filter sample with .45 micron filter. Do not overfill as there is Nitric Acid in the bottle.
<input type="text"/>	0	GREEN RAD	1000 ML	Filtered/Nitric	Radiochemistry (dissolved) - Filter sample with .45 micron filter. Do not overfill as there is Nitric Acid in the bottle.
<input type="text"/>	1	ORANGE	1000 ML	✓ Raw/Hydrochloric	Oil and Grease - Do not overfill as there is Hydrochloric Acid in the bottle.
<input type="text"/>	1	RAW	500 ML	✓ Raw	Wet Chemistry (analyses that do not require preservative or filtration) - Completely fill container.
<input type="text"/>	1	RED CUBE	4 L	✓ Raw/Nitric	Radiochemistry (total) - Do not overfill as there is Nitric Acid in the bottle.
<input type="text"/>	1	RED PC	250 ML	✓ Red pre-cleaned Raw/Nitric	Metals (total including ICPMS) - Do not overfill as there is Nitric Acid in the bottle.
<input type="text"/>	0	RED RAD	1000 ML	Raw/Nitric	Radiochemistry (total) - Do not overfill as there is Nitric Acid in the bottle.
<input type="text"/>	1	TAN	125 ML	✓ Raw/NaOH & Zinc Acetate	Sulfide - Do not overfill as there is Sodium Hydroxide and Zinc Acetate in the bottle.
<input type="text"/>	1	WHITE	250 ML	✓ Filtered	Wet chemistry (dissolved) - Filter sample with .45 micron filter. Completely fill container.
<input type="text"/>	1	YELLOW GLASS	250 ML	✓ Raw/Sulfuric	COD, TOC, Phenols, and total wet chemistry analysis. Do not overfill as there is Sulfuric Acid in the bottle.

Prepared By/Date: _____

mjj

July 07, 2017

Report to:
Kathy Weinel
Energy Fuels Resources (USA) Inc.
225 Union Blvd. , Suite 600
Lakewood, CO 80228

Bill to:
Accounts Payable
Energy Fuels Resources (USA) Inc.
225 Union Blvd. , Suite 600
Lakewood, CO 80228

Project ID: May 2017 Canyon Sampling
ACZ Project ID: L37305

Kathy Weinel:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on May 19, 2017. This project has been assigned to ACZ's project number, L37305. Please reference this number in all future inquiries.

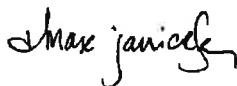
All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L37305. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after August 06, 2017. If the samples are determined to be hazardous, additional charges apply for disposal (typically \$11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.



Max Janicek has reviewed and approved this report.



Energy Fuels Resources (USA) Inc.
 Project ID: May 2017 Canyon Sampling
 Sample ID: DW WELL

ACZ Sample ID: **L37305-03**
 Date Sampled: **05/18/17 08:20**
 Date Received: **05/19/17**
 Sample Matrix: **Ground Water**

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Nitrogen, total Kjeldahl	M351.2 - Block Digestor								06/08/17 10:23	jdk/bsu
Total Recoverable Digestion	M200.2 ICP								06/06/17 10:29	aeh
Total Recoverable Digestion	M200.2 ICP-MS								06/05/17 16:43	enb

Energy Fuels Resources (USA) Inc.

Project ID: May 2017 Canyon Sampling
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 Date Sampled: 05/18/17 08:20
 Date Received: 05/19/17
 Sample Matrix: Ground Water

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, total recoverable	M200.7 ICP	1		U		mg/L	0.03	0.2	06/07/17 10:56	aeH
Antimony, total recoverable	M200.8 ICP-MS	1		U		mg/L	0.0004	0.002	06/06/17 20:55	enb
Arsenic, total recoverable	M200.8 ICP-MS	1	0.0025			mg/L	0.0002	0.001	06/06/17 20:55	enb
Barium, total recoverable	M200.7 ICP	1	0.081			mg/L	0.003	0.02	06/07/17 10:56	aeH
Beryllium, total recoverable	M200.8 ICP-MS	1	0.00007	B		mg/L	0.00005	0.0003	06/06/17 20:55	enb
Boron, total recoverable	M200.7 ICP	1	0.03	B		mg/L	0.01	0.05	06/07/17 10:56	aeH
Cadmium, total recoverable	M200.8 ICP-MS	1		U		mg/L	0.0001	0.0005	06/06/17 20:55	enb
Calcium, total recoverable	M200.7 ICP	1	39.8			mg/L	0.1	0.5	06/07/17 10:56	aeH
Chromium, total recoverable	M200.7 ICP	1		U		mg/L	0.01	0.05	06/07/17 10:56	aeH
Cobalt, total recoverable	M200.8 ICP-MS	1	0.00059			mg/L	0.00005	0.0003	06/06/17 20:55	enb
Copper, dissolved	M200.7 ICP	1		U		mg/L	0.01	0.05	06/05/17 21:20	gss
Copper, total recoverable	M200.7 ICP	1	0.04	B		mg/L	0.01	0.05	06/07/17 10:56	aeH
Iron, dissolved	M200.7 ICP	1		U		mg/L	0.02	0.05	06/03/17 0:49	aeH
Iron, total recoverable	M200.7 ICP	1	4.11			mg/L	0.02	0.05	06/07/17 10:56	aeH
Lead, dissolved	M200.8 ICP-MS	1		U		mg/L	0.0001	0.0005	06/01/17 19:22	mfm
Lead, total recoverable	M200.8 ICP-MS	1	0.0251			mg/L	0.0001	0.0005	06/06/17 20:55	enb
Magnesium, total recoverable	M200.7 ICP	1	28.1			mg/L	0.2	1	06/07/17 10:56	aeH
Manganese, total recoverable	M200.7 ICP	1	0.090			mg/L	0.005	0.03	06/07/17 10:56	aeH
Mercury, total	M245.1 CVAA	1		U		mg/L	0.0002	0.001	06/05/17 15:44	sck
Molybdenum, total recoverable	M200.8 ICP-MS	1	0.0008	B		mg/L	0.0005	0.003	06/06/17 20:55	enb
Nickel, total recoverable	M200.7 ICP	1	0.116			mg/L	0.008	0.04	06/07/17 10:56	aeH
Potassium, total recoverable	M200.7 ICP	1	2.5			mg/L	0.2	1	06/07/17 10:56	aeH
Selenium, total recoverable	M200.8 ICP-MS	1	0.0009			mg/L	0.0001	0.0003	06/06/17 20:55	enb
Silica, total recoverable	M200.7 ICP	1	8.3		*	mg/L	0.2	1	06/07/17 10:56	aeH
Silver, dissolved	M200.8 ICP-MS	1		U		mg/L	0.00005	0.0003	06/01/17 19:22	mfm
Silver, total recoverable	M200.8 ICP-MS	1	0.00015	B		mg/L	0.00005	0.0003	06/06/17 20:55	enb
Sodium, total recoverable	M200.7 ICP	1	8.1			mg/L	0.2	1	06/07/17 10:56	aeH
Thallium, total recoverable	M200.8 ICP-MS	1		U		mg/L	0.0001	0.0005	06/07/17 15:43	enb
Tin, total recoverable	M200.7 ICP	1		U		mg/L	0.04	0.2	06/07/17 10:56	aeH
Uranium, dissolved	M200.8 ICP-MS	1	0.0107			mg/L	0.0001	0.0005	06/01/17 19:22	mfm

Energy Fuels Resources (USA) Inc.

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 Date Sampled: 05/18/17 08:20
 Date Received: 05/19/17
 Sample Matrix: Ground Water

Uranium, total recoverable	M200.8 ICP-MS	1	0.0122		mg/L	0.0001	0.0005	06/06/17 20:55	enb
Vanadium, total recoverable	M200.7 ICP	1		U	mg/L	0.005	0.03	06/07/17 10:56	aeH
Zinc, dissolved	M200.7 ICP	1		U	mg/L	0.01	0.05	06/03/17 0:49	aeH
Zinc, total recoverable	M200.7 ICP	1	0.03	B	mg/L	0.01	0.05	06/07/17 10:56	aeH

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	196			mg/L	2	20	05/26/17 0:00	abd
Carbonate as CaCO3		1	10.8	B		mg/L	2	20	05/26/17 0:00	abd
Hydroxide as CaCO3		1		U		mg/L	2	20	05/26/17 0:00	abd
Total Alkalinity		1	207			mg/L	2	20	05/26/17 0:00	abd
Biochemical Oxygen Demand (5 day)	SM5210B	1	1.693		*	mg/L	2	2	05/19/17 15:21	emk
Chemical Oxygen Demand	M410 4	1		U	*	mg/L	10	20	06/02/17 13:45	emk
Chloride	M300 0 - Ion Chromatography	1	7.16			mg/L	0.5	2.5	06/12/17 22:07	krh
Conductivity @25C	SM2510B	1	431			umhos/cm	1	10	05/26/17 20:50	abd
Fluoride	M300 0 - Ion Chromatography	1	0.33		*	mg/L	0.05	0.25	06/12/17 22:07	krh
Nitrate/Nitrite as N	M353 2 - H2SO4 preserved	1	0.04	B		mg/L	0.02	0.1	06/07/17 23:38	pjb
Nitrogen, ammonia	M350.1 Auto Salicylate w/gas diffusion	1		U		mg/L	0.05	0.2	06/09/17 9:55	bce
Nitrogen, organic	M351 2 & M350.1 - TKN minus NH3			U		mg/L	0.1	0.5	07/07/17 0:00	calc
Nitrogen, total Kjeldahl	M351 2 - TKN by Block Digester	1		U		mg/L	0.1	0.5	06/08/17 23:27	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	228			mg/L	10	20	05/24/17 13:44	abd
Residue, Non-Filterable (TSS) @105C	SM2540D	1	10.0	B	*	mg/L	5	20	05/24/17 14:44	abd
Sulfate	M300 0 - Ion Chromatography	1	18.7			mg/L	0.5	2.5	06/12/17 22:07	krh
Sulfide as S	SM4500S2-D	1		U	*	mg/L	0.02	0.1	05/23/17 15:53	abd

Arizona license number: **AZ0102**



Report Header Explanations

Table with 2 columns: Term and Definition. Includes terms like Batch, Found, Limit, Lower, MDL, PCN/SCN, PQL, QC, Rec, RPD, Upper, and Sample.

QC Sample Types

Table with 4 columns: Abbreviation, Description, Abbreviation, Description. Lists various QC sample types like AS, ASD, CCB, etc.

QC Sample Type Explanations

Table with 2 columns: Term and Definition. Explains Blanks, Control Samples, Duplicates, Spikes/fortified Matrix, and Standard.

ACZ Qualifiers (Qual)

Table with 2 columns: Qualifier and Definition. Lists B, H, L, and U with their respective meanings.

Method References

- List of 5 method references including EPA 600/4-83-020, EPA 600/R-93-100, EPA 600/R-94-111, EPA SW-846, and Standard Methods for the Examination of Water and Wastewater.

Comments

- List of 5 comments regarding QC results, matrices, and reporting limits.

For a complete list of ACZ's Extended Qualifiers, please click:

<http://www.acz.com/public/extquallist.pdf>

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L37305**

Alkalinity as CaCO3

SM2320B - Titration

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG423671													
WG423671PBW1	PBW	05/26/17 14:25				3.4	mg/L		-20	20			
WG423671LCSW3	LCSW	05/26/17 14:41	WC170517-7	820.0001		777	mg/L	95	90	110			
WG423671LCSW6	LCSW	05/26/17 17:50	WC170517-7	820.0001		788	mg/L	96	90	110			
WG423671PBW2	PBW	05/26/17 17:56				15.1	mg/L		-20	20			
L37305-02DUP	DUP	05/26/17 20:16			183	184	mg/L				1	20	
WG423671LCSW9	LCSW	05/26/17 20:33	WC170517-7	820.0001		801	mg/L	98	90	110			
WG423671PBW3	PBW	05/26/17 20:40				U	mg/L		-20	20			
L37324-03DUP	DUP	05/26/17 22:15			33.6	33.6	mg/L				0	20	
WG423671LCSW12	LCSW	05/26/17 23:57	WC170517-7	820.0001		807	mg/L	98	90	110			
WG423671PBW4	PBW	05/27/17 0:05				U	mg/L		-20	20			
WG423671LCSW15	LCSW	05/27/17 3:52	WC170517-7	820.0001		808	mg/L	99	90	110			

Aluminum, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG424249													
WG424249ICV	ICV	06/07/17 10:24	1170602-1	2		1.983	mg/L	99	95	105			
WG424249ICB	ICB	06/07/17 10:30				U	mg/L		-0.09	0.09			
WG424140LRB	LRB	06/07/17 10:43				U	mg/L		-0.066	0.066			
WG424140LFB	LFB	06/07/17 10:46	1170516-2	1.0013		.989	mg/L	99	85	115			
L37383-02LFM	LFM	06/07/17 11:09	1170516-2	1.0013	1.2	2.26	mg/L	106	70	130			
L37383-02LFMD	LFMD	06/07/17 11:12	1170516-2	1.0013	1.2	2.268	mg/L	107	70	130	0	20	

Antimony, total recoverable

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG424191													
WG424191ICV	ICV	06/06/17 20:36	MS170420-2	.02		.02164	mg/L	108	90	110			
WG424191ICB	ICB	06/06/17 20:39				U	mg/L		-0.0012	0.0012			
WG424098LRB	LRB	06/06/17 20:42				U	mg/L		-0.00088	0.00088			
WG424098LFB	LFB	06/06/17 20:45	MS170524-3	.009980001		.01138	mg/L	114	85	115			
L37450-01LFM	LFM	06/06/17 21:07	MS170524-3	.009980001	U	.01113	mg/L	112	70	130			
L37450-01LFMD	LFMD	06/06/17 21:17	MS170524-3	.009980001	U	.01113	mg/L	112	70	130	0	20	

Arsenic, total recoverable

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG424191													
WG424191ICV	ICV	06/06/17 20:36	MS170420-2	.05		.05173	mg/L	103	90	110			
WG424191ICB	ICB	06/06/17 20:39				U	mg/L		-0.0006	0.0006			
WG424098LRB	LRB	06/06/17 20:42				U	mg/L		-0.00044	0.00044			
WG424098LFB	LFB	06/06/17 20:45	MS170524-3	.0501		.04784	mg/L	95	85	115			
L37450-01LFM	LFM	06/06/17 21:07	MS170524-3	.0501	.0005	.04946	mg/L	98	70	130			
L37450-01LFMD	LFMD	06/06/17 21:17	MS170524-3	.0501	.0005	.04909	mg/L	97	70	130	1	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L37305**

Barium, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG424249													
WG424249ICV	ICV	06/07/17 10:24	II170602-1	2		1.981	mg/L	99	95	105			
WG424249ICB	ICB	06/07/17 10:30				U	mg/L		-0.009	0.009			
WG424140LRB	LRB	06/07/17 10:43				U	mg/L		-0.0066	0.0066			
WG424140LFB	LFB	06/07/17 10:46	II170516-2	.5015		.4799	mg/L	96	85	115			
L37383-02LFM	LFM	06/07/17 11:09	II170516-2	.5015	.018	.49	mg/L	94	70	130			
L37383-02LFMD	LFMD	06/07/17 11:12	II170516-2	.5015	.018	.4882	mg/L	94	70	130	0	20	

Beryllium, total recoverable M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG424191													
WG424191ICV	ICV	06/06/17 20:36	MS170420-2	.05		.04992	mg/L	100	90	110			
WG424191ICB	ICB	06/06/17 20:39				.000118	mg/L		-0.00015	0.00015			
WG424098LRB	LRB	06/06/17 20:42				.000074	mg/L		-0.00011	0.00011			
WG424098LFB	LFB	06/06/17 20:45	MS170524-3	.05035		.04763	mg/L	95	85	115			
L37450-01LFM	LFM	06/06/17 21:07	MS170524-3	.05035	.00022	.04681	mg/L	93	70	130			
L37450-01LFMD	LFMD	06/06/17 21:17	MS170524-3	.05035	.00022	.04709	mg/L	93	70	130	1	20	

Biochemical Oxygen Demand (5 day) SM5210B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG423229													
WG423229LCSW1	LCSW	05/19/17 15:31	BODLCSW	198		173.2	mg/L	87	84.6	115.4			
WG423229LCSW2	LCSW	05/19/17 15:33	BODLCSW	198		172.2	mg/L	87	84.6	115.4			
WG423229LCSW3	LCSW	05/19/17 15:35	BODLCSW	198		168.2	mg/L	85	84.6	115.4			

Boron, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG424249													
WG424249ICV	ICV	06/07/17 10:24	II170602-1	2		1.967	mg/L	98	95	105			
WG424249ICB	ICB	06/07/17 10:30				.013	mg/L		-0.03	0.03			
WG424140LRB	LRB	06/07/17 10:43				U	mg/L		-0.022	0.022			
WG424140LFB	LFB	06/07/17 10:46	II170516-2	.5005		.475	mg/L	95	85	115			
L37383-02LFM	LFM	06/07/17 11:09	II170516-2	.5005	U	.458	mg/L	92	70	130			
L37383-02LFMD	LFMD	06/07/17 11:12	II170516-2	.5005	U	.459	mg/L	92	70	130	0	20	

Cadmium, total recoverable M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG424191													
WG424191ICV	ICV	06/06/17 20:36	MS170420-2	.05		.05202	mg/L	104	90	110			
WG424191ICB	ICB	06/06/17 20:39				U	mg/L		-0.0003	0.0003			
WG424098LRB	LRB	06/06/17 20:42				U	mg/L		-0.00022	0.00022			
WG424098LFB	LFB	06/06/17 20:45	MS170524-3	.05005		.04729	mg/L	94	85	115			
L37450-01LFM	LFM	06/06/17 21:07	MS170524-3	.05005	.001	.04786	mg/L	94	70	130			
L37450-01LFMD	LFMD	06/06/17 21:17	MS170524-3	.05005	.001	.04771	mg/L	93	70	130	0	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L37305**

Calcium, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG424249													
WG424249ICV	ICV	06/07/17 10:24	II170602-1	100		97.23	mg/L	97	95	105			
WG424249ICB	ICB	06/07/17 10:30				U	mg/L		-0.3	0.3			
WG424140LRB	LRB	06/07/17 10:43				U	mg/L		-0.22	0.22			
WG424140LFB	LFB	06/07/17 10:46	II170516-2	68.01207		68.12	mg/L	100	85	115			
L37383-02LFM	LFM	06/07/17 11:09	II170516-2	68.01207	15.4	81.56	mg/L	97	70	130			
L37383-02LFMD	LFMD	06/07/17 11:12	II170516-2	68.01207	15.4	82.18	mg/L	98	70	130	1	20	

Chemical Oxygen Demand M410.4

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG423985													
WG423985ICV	ICV	06/02/17 13:15	WC161013-8	200		195	mg/L	98	90	110			
WG423985ICB	ICB	06/02/17 13:20				U	mg/L		-10	10			
WG423985LRB1	LRB	06/02/17 13:25				U	mg/L		-10	10			
WG423985LFB1	LFB	06/02/17 13:30	WC161013-7	50		52	mg/L	104	90	110			
L37409-06DUP	DUP	06/02/17 14:35			46	45	mg/L				2	20	RA
L37409-06AS	AS	06/02/17 14:40	WC161013-7	50	46	87	mg/L	82	90	110			M2
WG423985LRB2	LRB	06/02/17 15:55				U	mg/L		-10	10			
WG423985LFB2	LFB	06/02/17 16:00	WC161013-7	50		53	mg/L	106	90	110			

Chloride M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG422596													
WG422596ICV	ICV	05/10/17 13:03	WI170426-1	20.02		20	mg/L	100	90	110			
WG422596ICB	ICB	05/10/17 13:21				U	mg/L		-0.5	0.5			
WG424594													
WG424594LFB	LFB	06/12/17 20:01	WI170526-1	30		30.9	mg/L	103	90	110			
L37288-01DUP	DUP	06/13/17 20:48			145	145	mg/L				0	20	
L37288-02AS	AS	06/13/17 21:24	WI170526-1	1500	958	2470	mg/L	101	90	110			

Chromium, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG424249													
WG424249ICV	ICV	06/07/17 10:24	II170602-1	2		1.917	mg/L	96	95	105			
WG424249ICB	ICB	06/07/17 10:30				U	mg/L		-0.03	0.03			
WG424140LRB	LRB	06/07/17 10:43				U	mg/L		-0.022	0.022			
WG424140LFB	LFB	06/07/17 10:46	II170516-2	.5025		.474	mg/L	94	85	115			
L37383-02LFM	LFM	06/07/17 11:09	II170516-2	.5025	U	.463	mg/L	92	70	130			
L37383-02LFMD	LFMD	06/07/17 11:12	II170516-2	.5025	U	.459	mg/L	91	70	130	1	20	

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ACZ Project ID: **L37305**

Cobalt, total recoverable

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG424191													
WG424191ICV	ICV	06/06/17 20:36	MS170420-2	05		.05473	mg/L	109	90	110			
WG424191ICB	ICB	06/06/17 20:39				U	mg/L		-0.00015	0.00015			
WG424098LRB	LRB	06/06/17 20:42				U	mg/L		-0.00011	0.00011			
WG424098LFB	LFB	06/06/17 20:45	MS170524-3	.05005		.04931	mg/L	99	85	115			
L37450-01LFM	LFM	06/06/17 21:07	MS170524-3	.05005	.00558	.05367	mg/L	96	70	130			
L37450-01LFMD	LFMD	06/06/17 21:17	MS170524-3	.05005	.00558	.05324	mg/L	95	70	130	1	20	

Conductivity @25C

SM2510B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG423671													
WG423671LCSW2	LCSW	05/26/17 14:29	PCN52897	1408		1550	umhos/cm	110	90	110			
WG423671LCSW5	LCSW	05/26/17 17:38	PCN52897	1408		1490	umhos/cm	106	90	110			
L37305-02DUP	DUP	05/26/17 20:16			869	870	umhos/cm				0	20	
WG423671LCSW8	LCSW	05/26/17 20:20	PCN52897	1408		1450	umhos/cm	103	90	110			
L37324-03DUP	DUP	05/26/17 22:15			108	109	umhos/cm				1	20	
WG423671LCSW11	LCSW	05/26/17 23:45	PCN52897	1408		1440	umhos/cm	102	90	110			
WG423671LCSW14	LCSW	05/27/17 3:39	PCN52897	1408		1420	umhos/cm	101	90	110			

Copper, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG424088													
WG424088ICV	ICV	06/05/17 20:45	II170428-3	2		1.993	mg/L	100	95	105			
WG424088ICB	ICB	06/05/17 20:51				U	mg/L		-0.03	0.03			
WG424088LFB	LFB	06/05/17 21:04	II170516-2	.5005		.543	mg/L	108	85	115			
L37305-02AS	AS	06/05/17 21:14	II170516-2	.5005	.02	.565	mg/L	109	85	115			
L37305-02ASD	ASD	06/05/17 21:17	II170516-2	.5005	.02	.559	mg/L	108	85	115	1	20	

Copper, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG424249													
WG424249ICV	ICV	06/07/17 10:24	II170602-1	2		1.963	mg/L	98	95	105			
WG424249ICB	ICB	06/07/17 10:30				U	mg/L		-0.03	0.03			
WG424140LRB	LRB	06/07/17 10:43				U	mg/L		-0.022	0.022			
WG424140LFB	LFB	06/07/17 10:46	II170516-2	.5005		.494	mg/L	99	85	115			
L37383-02LFM	LFM	06/07/17 11:09	II170516-2	.5005	.02	.494	mg/L	95	70	130			
L37383-02LFMD	LFMD	06/07/17 11:12	II170516-2	.5005	.02	.489	mg/L	94	70	130	1	20	

Fluoride

M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG422596													
WG422596ICV	ICV	05/10/17 13:03	WI170426-1	3.996		4.04	mg/L	101	90	110			
WG422596ICB	ICB	05/10/17 13:21				U	mg/L		-0.05	0.05			
WG424594													
WG424594LFB	LFB	06/12/17 20:01	WI170526-1	1.5		1.57	mg/L	105	90	110			
L37288-01DUP	DUP	06/13/17 20:48			2.93	2.95	mg/L				1	20	RA
L37288-02AS	AS	06/13/17 21:24	WI170526-1	75	2.95	79	mg/L	101	90	110			

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L37305

Iron, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG423993													
WG423993ICV	ICV	06/03/17 0:16	II170428-3	2		1.977	mg/L	99	95	105			
WG423993ICB	ICB	06/03/17 0:21				U	mg/L		-0.06	0.06			
WG423993LFB	LFB	06/03/17 0:34	II170516-2	1.0017		1.008	mg/L	101	85	115			
L37305-02AS	AS	06/03/17 0:43	II170516-2	1.0017	U	1.021	mg/L	102	85	115			
L37305-02ASD	ASD	06/03/17 0:46	II170516-2	1.0017	U	1.001	mg/L	100	85	115	2	20	

Iron, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG424249													
WG424249ICV	ICV	06/07/17 10:24	II170602-1	2		1.924	mg/L	96	95	105			
WG424249ICB	ICB	06/07/17 10:30				U	mg/L		-0.06	0.06			
WG424140LRB	LRB	06/07/17 10:43				U	mg/L		-0.044	0.044			
WG424140LFB	LFB	06/07/17 10:46	II170516-2	1.0017		.933	mg/L	93	85	115			
L37383-02LFM	LFM	06/07/17 11:09	II170516-2	1.0017	1.82	2.708	mg/L	89	70	130			
L37383-02LFMD	LFMD	06/07/17 11:12	II170516-2	1.0017	1.82	2.727	mg/L	91	70	130	1	20	

Lead, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG423929													
WG423929ICV	ICV	06/01/17 19:07	MS170420-2	.05		.05195	mg/L	104	90	110			
WG423929ICB	ICB	06/01/17 19:10				U	mg/L		-0.0003	0.0003			
WG423929LFB	LFB	06/01/17 19:13	MS170524-3	.0501		.04742	mg/L	95	85	115			
L37382-01AS	AS	06/01/17 19:28	MS170524-3	.0501	U	.04741	mg/L	95	70	130			
L37382-01ASD	ASD	06/01/17 19:31	MS170524-3	.0501	U	.04791	mg/L	96	70	130	1	20	

Lead, total recoverable

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG424191													
WG424191ICV	ICV	06/06/17 20:36	MS170420-2	.05		.05327	mg/L	107	90	110			
WG424191ICB	ICB	06/06/17 20:39				U	mg/L		-0.0003	0.0003			
WG424098LRB	LRB	06/06/17 20:42				U	mg/L		-0.00022	0.00022			
WG424098LFB	LFB	06/06/17 20:45	MS170524-3	.0501		.04723	mg/L	94	85	115			
L37450-01LFM	LFM	06/06/17 21:07	MS170524-3	.0501	.0002	.04721	mg/L	94	70	130			
L37450-01LFMD	LFMD	06/06/17 21:17	MS170524-3	.0501	.0002	.04688	mg/L	93	70	130	1	20	

Magnesium, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG424249													
WG424249ICV	ICV	06/07/17 10:24	II170602-1	100		97.95	mg/L	98	95	105			
WG424249ICB	ICB	06/07/17 10:30				U	mg/L		-0.6	0.6			
WG424140LRB	LRB	06/07/17 10:43				U	mg/L		-0.44	0.44			
WG424140LFB	LFB	06/07/17 10:46	II170516-2	50.01344		46.38	mg/L	93	85	115			
L37383-02LFM	LFM	06/07/17 11:09	II170516-2	50.01344	2.3	47.53	mg/L	90	70	130			
L37383-02LFMD	LFMD	06/07/17 11:12	II170516-2	50.01344	2.3	47.96	mg/L	91	70	130	1	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L37305**

Manganese, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG424249													
WG424249ICV	ICV	06/07/17 10:24	II170602-1	2		1.8905	mg/L	95	95	105			
WG424249ICB	ICB	06/07/17 10:30				U	mg/L		-0.015	0.015			
WG424140LRB	LRB	06/07/17 10:43				U	mg/L		-0.011	0.011			
WG424140LFB	LFB	06/07/17 10:46	II170516-2	.5		.4786	mg/L	96	85	115			
L37383-02LFM	LFM	06/07/17 11:09	II170516-2	.5	.119	.582	mg/L	93	70	130			
L37383-02LFMD	LFMD	06/07/17 11:12	II170516-2	.5	.119	.5836	mg/L	93	70	130	0	20	

Mercury, total M245.1 CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG424057													
WG424057ICV	ICV	06/05/17 15:01	HG170524-1	.005005		.00481	mg/L	96	95	105			
WG424057ICB	ICB	06/05/17 15:02				U	mg/L		-0.0002	0.0002			
WG424059													
WG424059LRB	LRB	06/05/17 15:40				U	mg/L		-0.00044	0.00044			
WG424059LFB	LFB	06/05/17 15:41	HG170531-3	.002002		.00191	mg/L	95	85	115			
L37413-14LFM	LFM	06/05/17 15:47	HG170531-3	.002002	U	.00188	mg/L	94	85	115			
L37413-14LFMD	LFMD	06/05/17 15:50	HG170531-3	.002002	U	.0019	mg/L	95	85	115	1	20	

Molybdenum, total recoverable M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG424191													
WG424191ICV	ICV	06/06/17 20:36	MS170420-2	.01998		.01949	mg/L	98	90	110			
WG424191ICB	ICB	06/06/17 20:39				U	mg/L		-0.0015	0.0015			
WG424098LRB	LRB	06/06/17 20:42				U	mg/L		-0.0011	0.0011			
WG424098LFB	LFB	06/06/17 20:45	MS170524-3	.0501		.04605	mg/L	92	85	115			
L37450-01LFM	LFM	06/06/17 21:07	MS170524-3	.0501	U	.04627	mg/L	92	70	130			
L37450-01LFMD	LFMD	06/06/17 21:17	MS170524-3	.0501	U	.04616	mg/L	92	70	130	0	20	

Nickel, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG424249													
WG424249ICV	ICV	06/07/17 10:24	II170602-1	2.002		2.0412	mg/L	102	95	105			
WG424249ICB	ICB	06/07/17 10:30				U	mg/L		-0.024	0.024			
WG424140LRB	LRB	06/07/17 10:43				U	mg/L		-0.0176	0.0176			
WG424140LFB	LFB	06/07/17 10:46	II170516-2	.498		.4891	mg/L	98	85	115			
L37383-02LFM	LFM	06/07/17 11:09	II170516-2	.498	U	.4732	mg/L	95	70	130			
L37383-02LFMD	LFMD	06/07/17 11:12	II170516-2	.498	U	.4785	mg/L	96	70	130	1	20	

Nitrate/Nitrite as N M353.2 - H2SO4 preserved

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG424327													
WG424327ICV	ICV	06/07/17 22:08	WI170310-3	2.416		2.362	mg/L	98	90	110			
WG424327ICB	ICB	06/07/17 22:10				U	mg/L		-0.02	0.02			
WG424330													
WG424330LFB	LFB	06/07/17 23:11	WI170104-22	2		1.979	mg/L	99	90	110			
L37305-01AS	AS	06/07/17 23:14	WI170104-22	2	1.43	3.504	mg/L	104	90	110			
L37305-02DUP	DUP	06/07/17 23:37			11.7	11.65	mg/L				0	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L37305

Nitrogen, ammonia M350.1 Auto Salicylate w/gas diffusion

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG424455													
WG424455ICV	ICV	06/09/17 9:44	WI170605-8	11.988		10.867	mg/L	91	90	110			
WG424455ICB	ICB	06/09/17 9:46				U	mg/L		-0.05	0.05			
WG424455LFB	LFB	06/09/17 9:47	WI170420-10	10		10.531	mg/L	105	90	110			
L37305-01AS	AS	06/09/17 9:50	WI170420-10	10	.32	10.325	mg/L	100	90	110			
L37305-02DUP	DUP	06/09/17 9:53			1.91	1.95	mg/L				2	20	
WG424455ICV1	ICV	06/09/17 11:26	WI170605-8	11.988		12.144	mg/L	101	90	110			
WG424455ICB1	ICB	06/09/17 11:28				U	mg/L		-0.05	0.05			

Nitrogen, total Kjeldahl M351.2 - TKN by Block Digester

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG424437													
WG424437ICV	ICV	06/08/17 21:42	WI170602-1	4		3.96	mg/L	99	90	110			
WG424437ICB	ICB	06/08/17 21:43				U	mg/L		-0.1	0.1			
WG424440													
WG424346LRB1	LRB	06/08/17 23:20				U	mg/L		-0.1	0.1			
WG424346LFB1	LFB	06/08/17 23:21	WI170331-4	2.5		2.54	mg/L	102	90	110			
L37305-01LFM	LFM	06/08/17 23:23	WI170331-4	2.5	.6	3.12	mg/L	101	90	110			
L37305-02DUP	DUP	06/08/17 23:26			2.1	2.09	mg/L				0	20	
WG424346LRB2	LRB	06/08/17 23:54				U	mg/L		-0.1	0.1			
WG424346LFB2	LFB	06/08/17 23:55	WI170331-4	2.5		2.64	mg/L	106	90	110			

Potassium, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG424249													
WG424249ICV	ICV	06/07/17 10:24	II170602-1	20		19.52	mg/L	98	95	105			
WG424249ICB	ICB	06/07/17 10:30				U	mg/L		-0.6	0.6			
WG424140LRB	LRB	06/07/17 10:43				U	mg/L		-0.44	0.44			
WG424140LFB	LFB	06/07/17 10:46	II170516-2	99.98315		97.63	mg/L	98	85	115			
L37383-02LFM	LFM	06/07/17 11:09	II170516-2	99.98315	.6	96.03	mg/L	95	70	130			
L37383-02LFMD	LFMD	06/07/17 11:12	II170516-2	99.98315	.6	96.39	mg/L	96	70	130	0	20	

Residue, Filterable (TDS) @180C SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG423481													
WG423481PBW	PBW	05/24/17 13:30				U	mg/L		-20	20			
WG423481LCSW	LCSW	05/24/17 13:31	PCN53186	260		254	mg/L	98	80	120			
L37305-03DUP	DUP	05/24/17 13:45			228	228	mg/L				0	10	

Residue, Non-Filterable (TSS) @105C SM2540D

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG423484													
WG423484PBW	PBW	05/24/17 14:30				U	mg/L		-15	15			
WG423484LCSW	LCSW	05/24/17 14:31	PCN53186	160		181	mg/L	113	80	120			
L37295-01DUP	DUP	05/24/17 14:45			25	20	mg/L				22	10	RA

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L37305

Selenium, total recoverable

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG424191													
WG424191ICV	ICV	06/06/17 20:36	MS170420-2	.05		.05452	mg/L	109	90	110			
WG424191ICB	ICB	06/06/17 20:39				.00019	mg/L		-0.0003	0.0003			
WG424098LRB	LRB	06/06/17 20:42				U	mg/L		-0.00022	0.00022			
WG424098LFB	LFB	06/06/17 20:45	MS170524-3	.05005		.04831	mg/L	97	85	115			
L37450-01LFM	LFM	06/06/17 21:07	MS170524-3	.05005	U	.04794	mg/L	96	70	130			
L37450-01LFMD	LFMD	06/06/17 21:17	MS170524-3	.05005	U	.04788	mg/L	96	70	130	0	20	

Silica, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG424249													
WG424249ICV	ICV	06/07/17 10:24	1170602-1	42.8		40.78	mg/L	95	95	105			
WG424249ICB	ICB	06/07/17 10:30				U	mg/L		-0.6	0.6			
WG424140LRB	LRB	06/07/17 10:43				U	mg/L		-0.44	0.44			
WG424140LFB	LFB	06/07/17 10:46	1170516-2	21.415		20.31	mg/L	95	85	115			
L37383-02LFM	LFM	06/07/17 11:09	1170516-2	21.415	10.8	30.87	mg/L	94	70	130			
L37383-02LFMD	LFMD	06/07/17 11:12	1170516-2	21.415	10.8	30.93	mg/L	94	70	130	0	20	

Silver, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG423929													
WG423929ICV	ICV	06/01/17 19:07	MS170420-2	.02004		.01974	mg/L	99	90	110			
WG423929ICB	ICB	06/01/17 19:10				U	mg/L		-0.00015	0.00015			
WG423929LFB	LFB	06/01/17 19:13	MS170524-3	.01001		.00988	mg/L	99	85	115			
L37382-01AS	AS	06/01/17 19:28	MS170524-3	.01001	U	.009677	mg/L	97	70	130			
L37382-01ASD	ASD	06/01/17 19:31	MS170524-3	.01001	U	.009589	mg/L	96	70	130	1	20	

Silver, total recoverable

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG424191													
WG424191ICV	ICV	06/06/17 20:36	MS170420-2	.02004		.01948	mg/L	97	90	110			
WG424191ICB	ICB	06/06/17 20:39				U	mg/L		-0.00015	0.00015			
WG424098LRB	LRB	06/06/17 20:42				U	mg/L		-0.00011	0.00011			
WG424098LFB	LFB	06/06/17 20:45	MS170524-3	.01001		.00945	mg/L	94	85	115			
L37450-01LFM	LFM	06/06/17 21:07	MS170524-3	.01001	U	.009048	mg/L	90	70	130			
L37450-01LFMD	LFMD	06/06/17 21:17	MS170524-3	.01001	U	.009084	mg/L	91	70	130	0	20	

Sodium, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG424249													
WG424249ICV	ICV	06/07/17 10:24	1170602-1	100		99.31	mg/L	99	95	105			
WG424249ICB	ICB	06/07/17 10:30				U	mg/L		-0.6	0.6			
WG424140LRB	LRB	06/07/17 10:43				U	mg/L		-0.44	0.44			
WG424140LFB	LFB	06/07/17 10:46	1170516-2	100.0511		99.06	mg/L	99	85	115			
L37383-02LFM	LFM	06/07/17 11:09	1170516-2	100.0511	1.8	98.9	mg/L	97	70	130			
L37383-02LFMD	LFMD	06/07/17 11:12	1170516-2	100.0511	1.8	98.82	mg/L	97	70	130	0	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L37305

Sulfate M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG422596													
WG422596ICV	ICV	05/10/17 13:03	WI170426-1	50		49.4	mg/L	99	90	110			
WG422596ICB	ICB	05/10/17 13:21				U	mg/L		-0.5	0.5			
WG424594													
WG424594LFB	LFB	06/12/17 20:01	WI170526-1	30		30.2	mg/L	101	90	110			
L37288-01DUP	DUP	06/13/17 20:48			739	739	mg/L				0	20	
L37288-02AS	AS	06/13/17 21:24	WI170526-1	1500	1940	3390	mg/L	97	90	110			

Sulfide as S SM4500S2-D

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG423379													
WG423379ICV	ICV	05/23/17 13:25	WC170523-3	.34134		.33	mg/L	97	90	110			
WG423379ICB	ICB	05/23/17 13:31				U	mg/L		-0.06	0.06			
WG423380													
WG423380ICV	ICV	05/23/17 13:25	WC170523-3	.34134		.325	mg/L	95	90	110			
WG423380ICB	ICB	05/23/17 13:30				U	mg/L		-0.06	0.06			
WG423380LFB1	LFB	05/23/17 13:36	WC170523-6	.2462267		.268	mg/L	109	80	120			
L37305-02DUP	DUP	05/23/17 15:31			U	U	mg/L				0	20	RA
L37305-02AS	AS	05/23/17 15:48	WC170523-6	.2462267	U	.222	mg/L	90	75	125			
WG423380LFB2	LFB	05/23/17 16:26	WC170523-6	.2462267		.263	mg/L	107	80	120			

Thallium, total recoverable M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG424299													
WG424299ICV	ICV	06/07/17 15:24	MS170420-2	.05		.04899	mg/L	98	90	110			
WG424299ICB	ICB	06/07/17 15:27				U	mg/L		-0.0003	0.0003			
WG424098LRB	LRB	06/07/17 15:30				U	mg/L		-0.00022	0.00022			
WG424098LFB	LFB	06/07/17 15:33	MS170524-3	.0501		.04716	mg/L	94	85	115			
L37450-01LFM	LFM	06/07/17 15:52	MS170524-3	.0501	U	.0466	mg/L	93	70	130			
L37450-01LFMD	LFMD	06/07/17 15:56	MS170524-3	.0501	U	.04647	mg/L	93	70	130	0	20	

Tin, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG424249													
WG424249ICV	ICV	06/07/17 10:24	II170602-1	2		2.018	mg/L	101	95	105			
WG424249ICB	ICB	06/07/17 10:30				U	mg/L		-0.12	0.12			
WG424140LRB	LRB	06/07/17 10:43				U	mg/L		-0.088	0.088			
WG424140LFB	LFB	06/07/17 10:46	II170516-2	1.001		1.014	mg/L	101	85	115			
L37383-02LFM	LFM	06/07/17 11:09	II170516-2	1.001	U	.992	mg/L	99	70	130			
L37383-02LFMD	LFMD	06/07/17 11:12	II170516-2	1.001	U	.997	mg/L	100	70	130	1	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L37305

Uranium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG423929													
WG423929ICV	ICV	06/01/17 19:07	MS170420-2	.05		.05205	mg/L	104	90	110			
WG423929ICB	ICB	06/01/17 19:10				U	mg/L		-0.0003	0.0003			
WG423929LFB	LFB	06/01/17 19:13	MS170524-3	.05		.04891	mg/L	98	85	115			
L37382-01AS	AS	06/01/17 19:28	MS170524-3	.05	U	.0488	mg/L	98	70	130			
L37382-01ASD	ASD	06/01/17 19:31	MS170524-3	.05	U	.04955	mg/L	99	70	130	2	20	

Uranium, total recoverable M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG424191													
WG424191ICV	ICV	06/06/17 20:36	MS170420-2	.05		.053	mg/L	106	90	110			
WG424191ICB	ICB	06/06/17 20:39				U	mg/L		-0.0003	0.0003			
WG424098LRB	LRB	06/06/17 20:42				U	mg/L		-0.00022	0.00022			
WG424098LFB	LFB	06/06/17 20:45	MS170524-3	.05		.04879	mg/L	98	85	115			
L37450-01LFM	LFM	06/06/17 21:07	MS170524-3	.05	.0003	.04982	mg/L	99	70	130			
L37450-01LFMD	LFMD	06/06/17 21:17	MS170524-3	.05	.0003	.04957	mg/L	99	70	130	1	20	

Vanadium, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG424249													
WG424249ICV	ICV	06/07/17 10:24	II170602-1	2		1.9925	mg/L	100	95	105			
WG424249ICB	ICB	06/07/17 10:30				U	mg/L		-0.015	0.015			
WG424140LRB	LRB	06/07/17 10:43				U	mg/L		-0.011	0.011			
WG424140LFB	LFB	06/07/17 10:46	II170516-2	.4985		.5036	mg/L	101	85	115			
L37383-02LFM	LFM	06/07/17 11:09	II170516-2	.4985	U	.4876	mg/L	98	70	130			
L37383-02LFMD	LFMD	06/07/17 11:12	II170516-2	.4985	U	.4956	mg/L	99	70	130	2	20	

Zinc, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG423993													
WG423993ICV	ICV	06/03/17 0:16	II170428-3	2		1.959	mg/L	98	95	105			
WG423993ICB	ICB	06/03/17 0:21				U	mg/L		-0.03	0.03			
WG423993LFB	LFB	06/03/17 0:34	II170516-2	.4942		.544	mg/L	110	85	115			
L37305-02AS	AS	06/03/17 0:43	II170516-2	.4942	.3	.834	mg/L	108	85	115			
L37305-02ASD	ASD	06/03/17 0:46	II170516-2	.4942	.3	.781	mg/L	97	85	115	7	20	

Zinc, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG424249													
WG424249ICV	ICV	06/07/17 10:24	II170602-1	2		1.915	mg/L	96	95	105			
WG424249ICB	ICB	06/07/17 10:30				U	mg/L		-0.03	0.03			
WG424140LRB	LRB	06/07/17 10:43				U	mg/L		-0.022	0.022			
WG424140LFB	LFB	06/07/17 10:46	II170516-2	.4942		.506	mg/L	102	85	115			
L37383-02LFM	LFM	06/07/17 11:09	II170516-2	.4942	.02	.513	mg/L	100	70	130			
L37383-02LFMD	LFMD	06/07/17 11:12	II170516-2	.4942	.02	.516	mg/L	100	70	130	1	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L37305**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L37305-01	WG423229	Biochemical Oxygen Demand (5 day)	SM5210B	KA	The seed depletion was outside the method acceptance limits, the DO-axis intercept is > 0.2 mg/L. The reported result is an estimated value.
	WG423985	Chemical Oxygen Demand	M410.4	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M410.4	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG424594	Fluoride	M300.0 - Ion Chromatography	DC	Sample required dilution. Non-target analyte exceeded calibration range.
			M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG423484	Residue, Non-Filterable (TSS) @105C	SM2540D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG424249	Silica, total recoverable	M200.7 ICP	ZS	Digestion procedures have the potential to trigger silica polymerization and precipitation, leading to low biased results. Silica chemistry is complex and polymerization kinetics are unpredictable. Dissolved and/or acid soluble silica analyses may provide more accurate measurements.
SM4500S2-D			RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).	
L37305-02	WG423229	Biochemical Oxygen Demand (5 day)	SM5210B	KA	The seed depletion was outside the method acceptance limits, the DO-axis intercept is > 0.2 mg/L. The reported result is an estimated value.
	WG423985	Chemical Oxygen Demand	M410.4	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M410.4	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG424594	Chloride Fluoride	M300.0 - Ion Chromatography	Q6	Sample was received above recommended temperature.
			M300.0 - Ion Chromatography	Q6	Sample was received above recommended temperature.
			M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG423484	Residue, Non-Filterable (TSS) @105C	SM2540D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG424249	Silica, total recoverable	M200.7 ICP	ZS	Digestion procedures have the potential to trigger silica polymerization and precipitation, leading to low biased results. Silica chemistry is complex and polymerization kinetics are unpredictable. Dissolved and/or acid soluble silica analyses may provide more accurate measurements.
			M300.0 - Ion Chromatography	Q6	Sample was received above recommended temperature.
	WG423380	Sulfate	M300.0 - Ion Chromatography	Q6	Sample was received above recommended temperature.
	WG423380	Sulfide as S	SM4500S2-D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L37305

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L37305-03	WG423229	Biochemical Oxygen Demand (5 day)	SM5210B	KA	The seed depletion was outside the method acceptance limits, the DO-axis intercept is > 0.2 mg/L. The reported result is an estimated value.
	WG423985	Chemical Oxygen Demand	M410.4	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M410.4	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG424594	Fluoride	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG423484	Residue, Non-Filterable (TSS) @105C	SM2540D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG424249	Silica, total recoverable	M200.7 ICP	ZS	Digestion procedures have the potential to trigger silica polymerization and precipitation, leading to low biased results. Silica chemistry is complex and polymerization kinetics are unpredictable. Dissolved and/or acid soluble silica analyses may provide more accurate measurements.
	WG423380	Sulfide as S	SM4500S2-D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).

Energy Fuels Resources (USA) Inc.
 May 2017 Canyon Sampling

ACZ Project ID: L37305
 Date Received: 05/19/2017 11:14
 Received By:
 Date Printed: 5/19/2017

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody form or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?			X
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody form complete and accurate?	X		
7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples?		X	

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits? ¹	X		
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?	X		

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp (°C)	Temp Criteria (°C)	Rad (µR/Hr)	Custody Seal Intact?
3563	2.2	<=6.0	14	Yes
4308	2.2	<=6.0	13	Yes
4517	0.2	<=6.0	14	Yes

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

Energy Fuels Resources (USA) Inc.
May 2017 Canyon Sampling

ACZ Project ID: L37305

Date Received: 05/19/2017 11:14

Received By:

Date Printed: 5/19/2017

¹ The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na₂S₂O₃ preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).

November 10, 2017

Report to:

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

Bill to:

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

Project ID: Canyon Mine 3rd Quarter 2017

ACZ Project ID: L39885

Kathy Weinel:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on September 15, 2017. This project has been assigned to ACZ's project number, L39885. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L39885. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after December 10, 2017. If the samples are determined to be hazardous, additional charges apply for disposal (typically \$11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.



Max Janicek has reviewed and approved this report.



Energy Fuels Resources (USA) Inc.

November 10, 2017

Project ID: Canyon Mine 3rd Quarter 2017

ACZ Project ID: L39885

Sample Receipt

ACZ Laboratories, Inc. (ACZ) received 3 ground water samples from Energy Fuels Resources (USA) Inc. on September 15, 2017. The samples were received in good condition. Upon receipt, the sample custodian removed the samples from the cooler, inspected the contents, and logged the samples into ACZ's computerized Laboratory Information Management System (LIMS). The samples were assigned ACZ LIMS project number L39885. The custodian verified the sample information entered into the computer against the chain of custody (COC) forms and sample bottle labels.

Holding Times

Any analyses not performed within EPA recommended holding times have been qualified with an "H" flag.

Sample Analysis

These samples were analyzed for inorganic, organic, radiochemistry parameters. The individual methods are referenced on both the ACZ invoice and the analytical reports. The extended qualifier reports may contain footnotes qualifying specific elements due to QC failures. In addition the following has been noted with this specific project:

The BOD results for L39885 have been qualified with the RJ flag on the extended qualifier report. The chemist noted that the Lab Control Standard/Lab Control Standard Duplicate (LCS/LCSD) RPD or RSD exceeded the method or laboratory control limits. Due to the required sample volume, BOD is a parameter that cannot be retested; comparison of results to historical levels and/or data qualification may be necessary.

Energy Fuels Resources (USA) Inc.
 Project ID: Canyon Mine 3rd Quarter 20
 Sample ID: DEEP WATER WELL

ACZ Sample ID: **L39885-01**
 Date Sampled: 09/14/17 09:45
 Date Received: 09/15/17
 Sample Matrix: Ground Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Nitrogen, total Kjeldahl	M351.2 - Block Digestor								09/27/17 13:04	wtc
Total Recoverable Digestion	M200.2 ICP								10/02/17 11:09	dcm
Total Recoverable Digestion	M200.2 ICP-MS								10/03/17 10:38	bsu

Energy Fuels Resources (USA) Inc.
 Project ID: Canyon Mine 3rd Quarter 20
 Sample ID: DEEP WATER WELL

ACZ Sample ID: **L39885-01**
 Date Sampled: 09/14/17 09:45
 Date Received: 09/15/17
 Sample Matrix: Ground Water

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, total recoverable	M200.7 ICP	1		U		mg/L	0.03	0.2	10/03/17 16:39	aeH
Antimony, total recoverable	M200.8 ICP-MS	1		U		mg/L	0.0004	0.002	10/04/17 22:39	msh
Arsenic, total recoverable	M200.8 ICP-MS	1	0.0006	B		mg/L	0.0002	0.001	10/04/17 22:39	msh
Barium, total recoverable	M200.7 ICP	1	0.089			mg/L	0.003	0.02	10/03/17 16:39	aeH
Beryllium, total recoverable	M200.8 ICP-MS	1		U		mg/L	0.00005	0.0003	10/04/17 22:39	msh
Boron, total recoverable	M200.7 ICP	1	0.04	B		mg/L	0.01	0.05	10/03/17 16:39	aeH
Cadmium, total recoverable	M200.8 ICP-MS	1		U		mg/L	0.0001	0.0005	10/04/17 22:39	msh
Calcium, total recoverable	M200.7 ICP	1	42.5			mg/L	0.1	0.5	10/03/17 16:39	aeH
Chromium, total recoverable	M200.7 ICP	1		U		mg/L	0.01	0.05	10/03/17 16:39	aeH
Cobalt, total recoverable	M200.8 ICP-MS	1	0.00014	B		mg/L	0.00005	0.0003	10/04/17 22:39	msh
Copper, dissolved	M200.7 ICP	1		U		mg/L	0.01	0.05	10/02/17 19:13	aeH
Copper, total recoverable	M200.7 ICP	1		U		mg/L	0.01	0.05	10/03/17 16:39	aeH
Iron, dissolved	M200.7 ICP	1		U		mg/L	0.02	0.05	10/02/17 19:13	aeH
Iron, total recoverable	M200.7 ICP	1	0.35			mg/L	0.02	0.05	10/04/17 15:58	aeH
Lead, dissolved	M200.8 ICP-MS	1	0.0002	B		mg/L	0.0001	0.0005	10/04/17 18:31	bsu
Lead, total recoverable	M200.8 ICP-MS	1	0.0029			mg/L	0.0001	0.0005	10/04/17 22:39	msh
Magnesium, total recoverable	M200.7 ICP	1	30.2			mg/L	0.2	1	10/03/17 16:39	aeH
Manganese, total recoverable	M200.7 ICP	1	0.018	B		mg/L	0.005	0.03	10/03/17 16:39	aeH
Mercury, total	M245.1 CVAA	1		U		mg/L	0.0002	0.001	10/02/17 18:37	sck
Molybdenum, total recoverable	M200.8 ICP-MS	1	0.001	B		mg/L	0.0005	0.003	10/04/17 22:39	msh
Nickel, total recoverable	M200.7 ICP	1	0.017	B		mg/L	0.008	0.04	10/03/17 16:39	aeH
Potassium, total recoverable	M200.7 ICP	1	2.2			mg/L	0.2	1	10/03/17 16:39	aeH
Selenium, total recoverable	M200.8 ICP-MS	1	0.0076			mg/L	0.0001	0.0003	10/04/17 22:39	msh
Silica, total recoverable	M200.7 ICP	1	9.4			mg/L	0.2	1	10/03/17 16:39	aeH
Silver, dissolved	M200.8 ICP-MS	1		U		mg/L	0.00005	0.0003	10/04/17 18:31	bsu
Silver, total recoverable	M200.8 ICP-MS	1		U		mg/L	0.00005	0.0003	10/04/17 22:39	msh
Sodium, total recoverable	M200.7 ICP	1	5.7			mg/L	0.2	1	10/03/17 16:39	aeH
Thallium, total recoverable	M200.8 ICP-MS	1		U		mg/L	0.0001	0.0005	10/06/17 13:01	mfm
Tin, total recoverable	M200.7 ICP	1		U		mg/L	0.04	0.2	10/03/17 16:39	aeH
Uranium, dissolved	M200.8 ICP-MS	1	0.014			mg/L	0.0001	0.0005	10/04/17 18:31	bsu

Energy Fuels Resources (USA) Inc.

Project ID: Canyon Mine 3rd Quarter 20
 Sample ID: DEEP WATER WELL

ACZ Sample ID: **L39885-01**

Date Sampled: 09/14/17 09:45

Date Received: 09/15/17

Sample Matrix: Ground Water

Uranium, total recoverable	M200.8 ICP-MS	1	0.0148		mg/L	0.0001	0.0005	10/04/17 22:39	msh
Vanadium, total recoverable	M200.7 ICP	1		U	mg/L	0.005	0.03	10/03/17 16:39	aeH
Zinc, dissolved	M200.7 ICP	1		U	mg/L	0.01	0.05	10/02/17 19:13	aeH
Zinc, total recoverable	M200.7 ICP	1	0.01	B	mg/L	0.01	0.05	10/03/17 16:39	aeH

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	204			mg/L	2	20	09/21/17 0:00	enb
Carbonate as CaCO3		1	11.7	B		mg/L	2	20	09/21/17 0:00	enb
Hydroxide as CaCO3		1		U		mg/L	2	20	09/21/17 0:00	enb
Total Alkalinity		1	216			mg/L	2	20	09/21/17 0:00	enb
Biochemical Oxygen Demand (5 day)	SM5210B	1		U	*	mg/L	2	2	09/15/17 15:19	emk
Chemical Oxygen Demand	M410.4	1		U	*	mg/L	10	20	09/22/17 11:35	emk
Chloride	M300.0 - Ion Chromatography	1	6.86			mg/L	0.4	2	10/09/17 22:57	krh
Conductivity @25C	SM2510B	1	446			umhos/cm	1	10	09/21/17 3:42	enb
Fluoride	M300.0 - Ion Chromatography	1	0.31		*	mg/L	0.05	0.25	10/09/17 22:57	krh
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	0.13		*	mg/L	0.02	0.1	09/30/17 17:28	pjb
Nitrogen, ammonia	M350.1 Auto Salicylate w/gas diffusion	1		U	*	mg/L	0.05	0.2	10/05/17 11:49	wtc
Nitrogen, organic	M351.2 & M350.1 - TKN minus NH3			U		mg/L	0.1	0.5	11/09/17 0:00	calc
Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	1		U	*	mg/L	0.1	0.5	09/27/17 22:08	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	234		*	mg/L	10	20	09/19/17 15:46	che
Residue, Non-Filterable (TSS) @105C	SM2540D	1		U		mg/L	5	20	09/17/17 11:58	ecc
Sulfate	M300.0 - Ion Chromatography	1	18.5			mg/L	0.4	2	10/09/17 22:57	krh
Sulfide as S	SM4500S2-D	1		U	*	mg/L	0.02	0.1	09/19/17 13:18	emk

Arizona license number: **AZ0102**



Report Header Explanations

<i>Batch</i>	A distinct set of samples analyzed at a specific time
<i>Found</i>	Value of the QC Type of interest
<i>Limit</i>	Upper limit for RPD, in %.
<i>Lower</i>	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
<i>MDL</i>	Method Detection Limit. Same as Minimum Reporting Limit unless omitted or equal to the PQL (see comment #5). Allows for instrument and annual fluctuations.
<i>PCN/SCN</i>	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
<i>PQL</i>	Practical Quantitation Limit. Synonymous with the EPA term "minimum level".
<i>QC</i>	True Value of the Control Sample or the amount added to the Spike
<i>Rec</i>	Recovered amount of the true value or spike added, in % (except for LCSS, mg/Kg)
<i>RPD</i>	Relative Percent Difference, calculation used for Duplicate QC Types
<i>Upper</i>	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
<i>Sample</i>	Value of the Sample of interest

QC Sample Types

<i>AS</i>	Analytical Spike (Post Digestion)	<i>LCSWD</i>	Laboratory Control Sample - Water Duplicate
<i>ASD</i>	Analytical Spike (Post Digestion) Duplicate	<i>LFB</i>	Laboratory Fortified Blank
<i>CCB</i>	Continuing Calibration Blank	<i>LFM</i>	Laboratory Fortified Matrix
<i>CCV</i>	Continuing Calibration Verification standard	<i>LFMD</i>	Laboratory Fortified Matrix Duplicate
<i>DUP</i>	Sample Duplicate	<i>LRB</i>	Laboratory Reagent Blank
<i>ICB</i>	Initial Calibration Blank	<i>MS</i>	Matrix Spike
<i>ICV</i>	Initial Calibration Verification standard	<i>MSD</i>	Matrix Spike Duplicate
<i>ICSAB</i>	Inter-element Correction Standard - A plus B solutions	<i>PBS</i>	Prep Blank - Soil
<i>LCSS</i>	Laboratory Control Sample - Soil	<i>PBW</i>	Prep Blank - Water
<i>LCSSD</i>	Laboratory Control Sample - Soil Duplicate	<i>PQV</i>	Practical Quantitation Verification standard
<i>LCSW</i>	Laboratory Control Sample - Water	<i>SDL</i>	Serial Dilution

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method or calibration procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Spikes/Fortified Matrix	Determines sample matrix interferences, if any.
Standard	Verifies the validity of the calibration.

ACZ Qualifiers (Qual)

B	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
L	Target analyte response was below the laboratory defined negative threshold.
U	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

Method References

- (1) EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
- (2) EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
- (3) EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.
- (4) EPA SW-846. Test Methods for Evaluating Solid Waste.
- (5) Standard Methods for the Examination of Water and Wastewater.

Comments

- (1) QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
- (2) Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
- (3) Animal matrices for Inorganic analyses are reported on an "as received" basis.
- (4) An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.
- (5) If the MDL equals the PQL or the MDL column is omitted, the PQL is the reporting limit.

For a complete list of ACZ's Extended Qualifiers, please click:

<http://www.acz.com/public/extquallist.pdf>

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L39885**

Alkalinity as CaCO3 SM2320B - Titration

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG431641													
WG431641PBW1	PBW	09/20/17 16:27				U	mg/L		-20	20			
WG431641LCSW3	LCSW	09/20/17 16:45	WC170906-1	820.0001		784	mg/L	96	90	110			
WG431641LCSW6	LCSW	09/20/17 19:35	WC170906-1	820.0001		798	mg/L	97	90	110			
WG431641PBW2	PBW	09/20/17 19:44				2.5	mg/L		-20	20			
WG431641LCSW9	LCSW	09/20/17 22:43	WC170906-1	820.0001		804	mg/L	98	90	110			
WG431641PBW3	PBW	09/20/17 22:52				4.5	mg/L		-20	20			
WG431641LCSW12	LCSW	09/21/17 2:19	WC170906-1	820.0001		805	mg/L	98	90	110			
WG431641PBW4	PBW	09/21/17 2:28				2.7	mg/L		-20	20			
L39885-03DUP	DUP	09/21/17 4:10			215	233	mg/L				8	20	
WG431641LCSW15	LCSW	09/21/17 5:59	WC170906-1	820.0001		817	mg/L	100	90	110			

Aluminum, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG432666													
WG432666ICV	ICV	10/03/17 16:14	II171002-1	2		1.936	mg/L	97	95	105			
WG432666ICB	ICB	10/03/17 16:20				U	mg/L		-0.09	0.09			
WG432530LRB	LRB	10/03/17 16:33				U	mg/L		-0.066	0.066			
WG432530LFB	LFB	10/03/17 16:36	II170920-2	1.0013		.934	mg/L	93	85	115			
L39885-02LFM	LFM	10/03/17 16:46	II170920-2	1.0013	U	.973	mg/L	97	70	130			
L39885-02LFMD	LFMD	10/03/17 16:49	II170920-2	1.0013	U	.988	mg/L	99	70	130	2	20	

Antimony, total recoverable M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG432793													
WG432793ICV	ICV	10/04/17 22:31	MS170901-1	.02		.02026	mg/L	101	90	110			
WG432793ICB	ICB	10/04/17 22:33				U	mg/L		-0.0012	0.0012			
WG432646LRB	LRB	10/04/17 22:35				U	mg/L		-0.00088	0.00088			
WG432646LFB	LFB	10/04/17 22:37	MS170919-2	.01		.01093	mg/L	109	85	115			
L40019-02LFM	LFM	10/04/17 22:56	MS170919-2	.01	U	.01031	mg/L	103	70	130			
L40019-02LFMD	LFMD	10/04/17 22:58	MS170919-2	.01	U	.0103	mg/L	103	70	130	0	20	

Arsenic, total recoverable M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG432793													
WG432793ICV	ICV	10/04/17 22:31	MS170901-1	.05		.05319	mg/L	106	90	110			
WG432793ICB	ICB	10/04/17 22:33				U	mg/L		-0.0006	0.0006			
WG432646LRB	LRB	10/04/17 22:35				U	mg/L		-0.00044	0.00044			
WG432646LFB	LFB	10/04/17 22:37	MS170919-2	.0501		.05239	mg/L	105	85	115			
L40019-02LFM	LFM	10/04/17 22:56	MS170919-2	.0501	.0009	.05134	mg/L	101	70	130			
L40019-02LFMD	LFMD	10/04/17 22:58	MS170919-2	.0501	.0009	.05293	mg/L	104	70	130	3	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L39885

Barium, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG432666													
WG432666ICV	ICV	10/03/17 16:14	II171002-1	2		1.9768	mg/L	99	95	105			
WG432666ICB	ICB	10/03/17 16:20				U	mg/L		-0.009	0.009			
WG432530LRB	LRB	10/03/17 16:33				U	mg/L		-0.0066	0.0066			
WG432530LFB	LFB	10/03/17 16:36	II170920-2	.5015		.489	mg/L	98	85	115			
L39885-02LFM	LFM	10/03/17 16:46	II170920-2	.5015	.17	.6788	mg/L	101	70	130			
L39885-02LFMD	LFMD	10/03/17 16:49	II170920-2	.5015	.17	.6723	mg/L	100	70	130	1	20	

Beryllium, total recoverable M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG432793													
WG432793ICV	ICV	10/04/17 22:31	MS170901-1	.05		.049427	mg/L	99	90	110			
WG432793ICB	ICB	10/04/17 22:33				U	mg/L		-0.00015	0.00015			
WG432646LRB	LRB	10/04/17 22:35				U	mg/L		-0.00011	0.00011			
WG432646LFB	LFB	10/04/17 22:37	MS170919-2	.05035		.049076	mg/L	97	85	115			
L40019-02LFM	LFM	10/04/17 22:56	MS170919-2	.05035	U	.04939	mg/L	98	70	130			
L40019-02LFMD	LFMD	10/04/17 22:58	MS170919-2	.05035	U	.05012	mg/L	100	70	130	1	20	

Biochemical Oxygen Demand (5 day) SM5210B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG431368													
WG431368LCSW1	LCSW	09/15/17 16:45	BODLCSW	198		237	mg/L	120	84.6	115.4			RJ
WG431368LCSW2	LCSW	09/15/17 16:48	BODLCSW	198		161	mg/L	81	84.6	115.4			RJ
WG431368LCSW3	LCSW	09/15/17 16:52	BODLCSW	198		163	mg/L	82	84.6	115.4			RJ

Boron, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG432666													
WG432666ICV	ICV	10/03/17 16:14	II171002-1	2		2.04	mg/L	102	95	105			
WG432666ICB	ICB	10/03/17 16:20				U	mg/L		-0.03	0.03			
WG432530LRB	LRB	10/03/17 16:33				U	mg/L		-0.022	0.022			
WG432530LFB	LFB	10/03/17 16:36	II170920-2	.5005		.484	mg/L	97	85	115			
L39885-02LFM	LFM	10/03/17 16:46	II170920-2	.5005	.07	.582	mg/L	102	70	130			
L39885-02LFMD	LFMD	10/03/17 16:49	II170920-2	.5005	.07	.572	mg/L	100	70	130	2	20	

Cadmium, total recoverable M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG432793													
WG432793ICV	ICV	10/04/17 22:31	MS170901-1	.05		.05161	mg/L	103	90	110			
WG432793ICB	ICB	10/04/17 22:33				U	mg/L		-0.0003	0.0003			
WG432646LRB	LRB	10/04/17 22:35				U	mg/L		-0.00022	0.00022			
WG432646LFB	LFB	10/04/17 22:37	MS170919-2	.05005		.04979	mg/L	99	85	115			
L40019-02LFM	LFM	10/04/17 22:56	MS170919-2	.05005	U	.04876	mg/L	97	70	130			
L40019-02LFMD	LFMD	10/04/17 22:58	MS170919-2	.05005	U	.04868	mg/L	97	70	130	0	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L39885**

Calcium, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG432666													
WG432666ICV	ICV	10/03/17 16:14	II171002-1	100		100.3	mg/L	100	95	105			
WG432666ICB	ICB	10/03/17 16:20				U	mg/L		-0.3	0.3			
WG432530LRB	LRB	10/03/17 16:33				U	mg/L		-0.22	0.22			
WG432530LFB	LFB	10/03/17 16:36	II170920-2	68.01697		67.2	mg/L	99	85	115			
L39885-02LFM	LFM	10/03/17 16:46	II170920-2	68.01697	47.7	116	mg/L	100	70	130			
L39885-02LFMD	LFMD	10/03/17 16:49	II170920-2	68.01697	47.7	116.1	mg/L	101	70	130	0	20	

Chemical Oxygen Demand

M410.4

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG431877													
WG431877ICV	ICV	09/22/17 10:15	WC170714-2	200		197	mg/L	99	90	110			
WG431877ICB	ICB	09/22/17 10:28				U	mg/L		-10	10			
WG431877LRB	LRB	09/22/17 10:41				U	mg/L		-10	10			
WG431877LFB	LFB	09/22/17 10:55	WC170622-3	50		49	mg/L	98	90	110			
L39911-02DUP	DUP	09/22/17 13:48			U	U	mg/L				0	20	RA
L39911-02AS	AS	09/22/17 14:01	WC170622-3	50	U	46	mg/L	92	90	110			

Chloride

M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG430666													
WG430666ICV	ICV	09/06/17 17:19	WI170906-9	20.06		20.1	mg/L	100	90	110			
WG430666ICB	ICB	09/06/17 17:36				U	mg/L		-0.5	0.5			
WG433058													
WG433058LFB	LFB	10/09/17 20:33	WI170906-10	30		30.9	mg/L	103	90	110			
L39870-01DUP	DUP	10/09/17 21:09			42.1	41.8	mg/L				1	20	
L39870-02AS	AS	10/09/17 21:45	WI170906-10	600	34.2	656	mg/L	104	90	110			

Chromium, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG432666													
WG432666ICV	ICV	10/03/17 16:14	II171002-1	2		1.988	mg/L	99	95	105			
WG432666ICB	ICB	10/03/17 16:20				U	mg/L		-0.03	0.03			
WG432530LRB	LRB	10/03/17 16:33				U	mg/L		-0.022	0.022			
WG432530LFB	LFB	10/03/17 16:36	II170920-2	.498		.487	mg/L	98	85	115			
L39885-02LFM	LFM	10/03/17 16:46	II170920-2	.498	U	.502	mg/L	101	70	130			
L39885-02LFMD	LFMD	10/03/17 16:49	II170920-2	.498	U	.488	mg/L	98	70	130	3	20	

Cobalt, total recoverable

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG432793													
WG432793ICV	ICV	10/04/17 22:31	MS170901-1	.05		.052048	mg/L	104	90	110			
WG432793ICB	ICB	10/04/17 22:33				U	mg/L		-0.00015	0.00015			
WG432646LRB	LRB	10/04/17 22:35				.000058	mg/L		-0.00011	0.00011			
WG432646LFB	LFB	10/04/17 22:37	MS170919-2	.05005		.049679	mg/L	99	85	115			
L40019-02LFM	LFM	10/04/17 22:56	MS170919-2	.05005	.0006	.049591	mg/L	98	70	130			
L40019-02LFMD	LFMD	10/04/17 22:58	MS170919-2	.05005	.0006	.049716	mg/L	98	70	130	0	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L39885

Conductivity @25C

SM2510B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG431641													
WG431641LCSW2	LCSW	09/20/17 16:32	PCN53965	1410		1390	umhos/cm	99	90	110			
WG431641LCSW5	LCSW	09/20/17 19:22	PCN53965	1410		1390	umhos/cm	99	90	110			
WG431641LCSW8	LCSW	09/20/17 22:29	PCN53965	1410		1500	umhos/cm	106	90	110			
WG431641LCSW11	LCSW	09/21/17 2:06	PCN53965	1410		1400	umhos/cm	99	90	110			
L39885-03DUP	DUP	09/21/17 4:10			708	704	umhos/cm				1	20	
WG431641LCSW14	LCSW	09/21/17 5:45	PCN53965	1410		1390	umhos/cm	99	90	110			

Copper, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG432608													
WG432608ICV	ICV	10/02/17 18:51	II171002-1	2		1.903	mg/L	95	95	105			
WG432608ICB	ICB	10/02/17 18:57				U	mg/L		-0.03	0.03			
WG432608LFB	LFB	10/02/17 19:10	II170920-2	.5		.504	mg/L	101	85	115			
L39885-03AS	AS	10/02/17 19:23	II170920-2	.5	U	.493	mg/L	99	85	115			
L39885-03ASD	ASD	10/02/17 19:26	II170920-2	.5	U	.5	mg/L	100	85	115	1	20	

Copper, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG432666													
WG432666ICV	ICV	10/03/17 16:14	II171002-1	2		1.981	mg/L	99	95	105			
WG432666ICB	ICB	10/03/17 16:20				U	mg/L		-0.03	0.03			
WG432530LRB	LRB	10/03/17 16:33				U	mg/L		-0.022	0.022			
WG432530LFB	LFB	10/03/17 16:36	II170920-2	.5		.49	mg/L	98	85	115			
L39885-02LFM	LFM	10/03/17 16:46	II170920-2	.5	U	.505	mg/L	101	70	130			
L39885-02LFMD	LFMD	10/03/17 16:49	II170920-2	.5	U	.497	mg/L	99	70	130	2	20	

Fluoride

M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG430666													
WG430666ICV	ICV	09/06/17 17:19	WI170906-9	3.996		4.09	mg/L	102	90	110			
WG430666ICB	ICB	09/06/17 17:36				U	mg/L		-0.05	0.05			
WG433058													
WG433058LFB	LFB	10/09/17 20:33	WI170906-10	1.5		1.58	mg/L	105	90	110			
L39870-01DUP	DUP	10/09/17 21:09			.87	.84	mg/L				4	20	RA
L39870-02AS	AS	10/09/17 21:45	WI170906-10	30	U	32.6	mg/L	109	90	110			

Iron, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG432608													
WG432608ICV	ICV	10/02/17 18:51	II171002-1	2		1.898	mg/L	95	95	105			
WG432608ICB	ICB	10/02/17 18:57				U	mg/L		-0.06	0.06			
WG432608LFB	LFB	10/02/17 19:10	II170920-2	1.0011		1.012	mg/L	101	85	115			
L39885-03AS	AS	10/02/17 19:23	II170920-2	1.0011	U	.964	mg/L	96	85	115			
L39885-03ASD	ASD	10/02/17 19:26	II170920-2	1.0011	U	.984	mg/L	98	85	115	2	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L39885

Iron, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG432730													
WG432730ICV	ICV	10/04/17 15:34	II171002-1	2		1.921	mg/L	96	95	105			
WG432730ICB	ICB	10/04/17 15:39				U	mg/L		-0.06	0.06			
WG432530LRB	LRB	10/04/17 15:52				U	mg/L		-0.044	0.044			
WG432530LFB	LFB	10/04/17 15:55	II170920-2	1.0011		.965	mg/L	96	85	115			
L39885-02LFM	LFM	10/04/17 16:04	II170920-2	1.0011	.06	1.067	mg/L	101	70	130			
L39885-02LFMD	LFMD	10/04/17 16:07	II170920-2	1.0011	.06	1.064	mg/L	100	70	130	0	20	

Lead, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG432791													
WG432791ICV	ICV	10/04/17 18:22	MS170901-1	.05		.05106	mg/L	102	90	110			
WG432791ICB	ICB	10/04/17 18:25				U	mg/L		-0.0003	0.0003			
WG432791LFB	LFB	10/04/17 18:28	MS170919-2	.0501		.04897	mg/L	98	85	115			
L39885-02AS	AS	10/04/17 18:36	MS170919-2	.0501	.0001	.04425	mg/L	88	70	130			
L39885-02ASD	ASD	10/04/17 18:37	MS170919-2	.0501	.0001	.05138	mg/L	102	70	130	15	20	

Lead, total recoverable

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG432793													
WG432793ICV	ICV	10/04/17 22:31	MS170901-1	.05		.05281	mg/L	106	90	110			
WG432793ICB	ICB	10/04/17 22:33				U	mg/L		-0.0003	0.0003			
WG432646LRB	LRB	10/04/17 22:35				U	mg/L		-0.00022	0.00022			
WG432646LFB	LFB	10/04/17 22:37	MS170919-2	.0501		.05008	mg/L	100	85	115			
L40019-02LFM	LFM	10/04/17 22:56	MS170919-2	.0501	.0007	.05125	mg/L	101	70	130			
L40019-02LFMD	LFMD	10/04/17 22:58	MS170919-2	.0501	.0007	.05115	mg/L	101	70	130	0	20	

Magnesium, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG432666													
WG432666ICV	ICV	10/03/17 16:14	II171002-1	100		101.38	mg/L	101	95	105			
WG432666ICB	ICB	10/03/17 16:20				U	mg/L		-0.6	0.6			
WG432530LRB	LRB	10/03/17 16:33				U	mg/L		-0.44	0.44			
WG432530LFB	LFB	10/03/17 16:36	II170920-2	50.01363		46.15	mg/L	92	85	115			
L39885-02LFM	LFM	10/03/17 16:46	II170920-2	50.01363	45.1	92.4	mg/L	95	70	130			
L39885-02LFMD	LFMD	10/03/17 16:49	II170920-2	50.01363	45.1	92.48	mg/L	95	70	130	0	20	

Manganese, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG432666													
WG432666ICV	ICV	10/03/17 16:14	II171002-1	2		1.9835	mg/L	99	95	105			
WG432666ICB	ICB	10/03/17 16:20				U	mg/L		-0.015	0.015			
WG432530LRB	LRB	10/03/17 16:33				U	mg/L		-0.011	0.011			
WG432530LFB	LFB	10/03/17 16:36	II170920-2	.5		.4955	mg/L	99	85	115			
L39885-02LFM	LFM	10/03/17 16:46	II170920-2	.5	.007	.5212	mg/L	103	70	130			
L39885-02LFMD	LFMD	10/03/17 16:49	II170920-2	.5	.007	.5147	mg/L	102	70	130	1	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L39885

Mercury, total

M245.1 CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG432517													
WG432517ICV	ICV	10/02/17 16:10	HG170731-2	.005005		.00501	mg/L	100	95	105			
WG432517ICB	ICB	10/02/17 16:11				U	mg/L		-0.0002	0.0002			
WG432521													
WG432521LRB	LRB	10/02/17 18:26				U	mg/L		-0.00044	0.00044			
WG432521LFB	LFB	10/02/17 18:27	HG170926-3	002002		.00196	mg/L	98	85	115			
L39851-06LFM	LFM	10/02/17 18:33	HG170926-3	002002	U	.002	mg/L	100	85	115			
L39851-06LFMD	LFMD	10/02/17 18:36	HG170926-3	.002002	U	.00205	mg/L	102	85	115	2	20	

Molybdenum, total recoverable

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG432793													
WG432793ICV	ICV	10/04/17 22:31	MS170901-1	.01998		.02041	mg/L	102	90	110			
WG432793ICB	ICB	10/04/17 22:33				U	mg/L		-0.0015	0.0015			
WG432646LRB	LRB	10/04/17 22:35				U	mg/L		-0.0011	0.0011			
WG432646LFB	LFB	10/04/17 22:37	MS170919-2	.0501		.05083	mg/L	101	85	115			
L40019-02LFM	LFM	10/04/17 22:56	MS170919-2	.0501	U	.0495	mg/L	99	70	130			
L40019-02LFMD	LFMD	10/04/17 22:58	MS170919-2	.0501	U	.04925	mg/L	98	70	130	1	20	

Nickel, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG432666													
WG432666ICV	ICV	10/03/17 16:14	II171002-1	2.004		2.0115	mg/L	100	95	105			
WG432666ICB	ICB	10/03/17 16:20				U	mg/L		-0.024	0.024			
WG432530LRB	LRB	10/03/17 16:33				U	mg/L		-0.0176	0.0176			
WG432530LFB	LFB	10/03/17 16:36	II170920-2	.4995		.5109	mg/L	102	85	115			
L39885-02LFM	LFM	10/03/17 16:46	II170920-2	.4995	U	.5207	mg/L	104	70	130			
L39885-02LFMD	LFMD	10/03/17 16:49	II170920-2	.4995	U	.5017	mg/L	100	70	130	4	20	

Nitrate/Nitrite as N

M353.2 - H2SO4 preserved

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG432510													
WG432510ICV	ICV	09/30/17 17:08	WI170914-11	2.416		2.339	mg/L	97	90	110			
WG432510ICB	ICB	09/30/17 17:09				U	mg/L		-0.02	0.02			
WG432510LFB1	LFB	09/30/17 17:13	WI170705-5	2		2.041	mg/L	102	90	110			
L39851-01AS	AS	09/30/17 17:15	WI170705-5	2	.36	2.419	mg/L	103	90	110			
L39851-02DUP	DUP	09/30/17 17:18			.07	.069	mg/L				1	20	RA
WG432510LFB2	LFB	09/30/17 17:52	WI170705-5	2		2.035	mg/L	102	90	110			

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L39885

Nitrogen, ammonia

M350.1 Auto Salicylate w/gas diffusion

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG432736													
WG432736ICV	ICV	10/05/17 11:25	WI170706-6	11.988		11.895	mg/L	99	90	110			
WG432736ICB	ICB	10/05/17 11:26				U	mg/L		-0.05	0.05			
WG432845													
WG432845LFB1	LFB	10/05/17 11:48	WI170420-10	10		10.032	mg/L	100	90	110			
L39885-01AS	AS	10/05/17 11:51	WI170420-10	10	U	11.103	mg/L	111	90	110			M1
L39885-02DUP	DUP	10/05/17 11:54			.16	.112	mg/L				35	20	RA
WG432845LFB2	LFB	10/05/17 14:31	WI170420-10	10		10.092	mg/L	101	90	110			

Nitrogen, total Kjeldahl

M351.2 - TKN by Block Digester

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG432284													
WG432284ICV	ICV	09/27/17 20:17	WI170906-2	4		4.09	mg/L	102	90	110			
WG432284ICB	ICB	09/27/17 20:18				U	mg/L		-0.1	0.1			
WG432286													
WG432212LRB1	LRB	09/27/17 22:06				U	mg/L		-0.1	0.1			
WG432212LFB1	LFB	09/27/17 22:07	WI170815-9	2.5		2.27	mg/L	91	90	110			
L39885-01DUP	DUP	09/27/17 22:09			U	U	mg/L				0	20	RA
L39911-02LFM	LFM	09/27/17 22:12	10XTKN	25	U	25.3	mg/L	101	90	110			
WG432212LRB2	LRB	09/27/17 22:40				U	mg/L		-0.1	0.1			
WG432212LFB2	LFB	09/27/17 22:41	WI170815-9	2.5		2.35	mg/L	94	90	110			
WG433365													
WG433365ICV	ICV	10/11/17 23:38	WI171006-5	4		4.13	mg/L	103	90	110			
WG433365ICB	ICB	10/11/17 23:39				U	mg/L		-0.1	0.1			
WG433163LRB1	LRB	10/11/17 23:40				U	mg/L		-0.1	0.1			
WG433163LFB1	LFB	10/11/17 23:41	WI171006-7	2.5		2.45	mg/L	98	90	110			
L35737-32LFM	LFM	10/11/17 23:43	WI171006-7	2.5	.1	2.34	mg/L	90	90	110			
L35738-32DUP	DUP	10/11/17 23:46			.1	U	mg/L				200	20	RA
WG433163LRB2	LRB	10/12/17 0:14				U	mg/L		-0.1	0.1			
WG433163LFB2	LFB	10/12/17 0:15	WI171006-7	2.5		2.43	mg/L	97	90	110			

Potassium, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG432666													
WG432666ICV	ICV	10/03/17 16:14	II171002-1	20		20.36	mg/L	102	95	105			
WG432666ICB	ICB	10/03/17 16:20				U	mg/L		-0.6	0.6			
WG432530LRB	LRB	10/03/17 16:33				U	mg/L		-0.44	0.44			
WG432530LFB	LFB	10/03/17 16:36	II170920-2	100.002		97.57	mg/L	98	85	115			
L39885-02LFM	LFM	10/03/17 16:46	II170920-2	100.002	2.7	103.9	mg/L	101	70	130			
L39885-02LFMD	LFMD	10/03/17 16:49	II170920-2	100.002	2.7	102.6	mg/L	100	70	130	1	20	

Residue, Filterable (TDS) @180C

SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG431592													
WG431592PBW	PBW	09/19/17 15:40				U	mg/L		-20	20			
WG431592LCSW	LCSW	09/19/17 15:41	PCN54016	260		252	mg/L	97	80	120			
L39923-01DUP	DUP	09/19/17 15:56			90	90	mg/L				0	10	RA

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L39885

Residue, Non-Filterable (TSS) @105C SM2540D

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG431404													
WG431404PBW	PBW	09/17/17 11:45				U	mg/L		-15	15			
WG431404LCSW	LCSW	09/17/17 11:47	PCN54016	160		151	mg/L	94	80	120			
L39882-01DUP	DUP	09/17/17 12:17			1300	1400	mg/L				7	10	

Selenium, total recoverable M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG432793													
WG432793ICV	ICV	10/04/17 22:31	MS170901-1	.05		.05193	mg/L	104	90	110			
WG432793ICB	ICB	10/04/17 22:33				U	mg/L		-0.0003	0.0003			
WG432646LRB	LRB	10/04/17 22:35				U	mg/L		-0.00022	0.00022			
WG432646LFB	LFB	10/04/17 22:37	MS170919-2	.05005		.04858	mg/L	97	85	115			
L40019-02LFM	LFM	10/04/17 22:56	MS170919-2	.05005	0002	04764	mg/L	95	70	130			
L40019-02LFMD	LFMD	10/04/17 22:58	MS170919-2	.05005	0002	.04913	mg/L	98	70	130	3	20	

Silica, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG432666													
WG432666ICV	ICV	10/03/17 16:14	II171002-1	42.8		41.79	mg/L	98	95	105			
WG432666ICB	ICB	10/03/17 16:20				U	mg/L		-0.6	0.6			
WG432530LRB	LRB	10/03/17 16:33				U	mg/L		-0.44	0.44			
WG432530LFB	LFB	10/03/17 16:36	II170920-2	21.415		21.13	mg/L	99	85	115			
L39885-02LFM	LFM	10/03/17 16:46	II170920-2	21.415	6.6	28.93	mg/L	104	70	130			
L39885-02LFMD	LFMD	10/03/17 16:49	II170920-2	21.415	6.6	28.53	mg/L	102	70	130	1	20	

Silver, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG432791													
WG432791ICV	ICV	10/04/17 18:22	MS170901-1	.02004		.02071	mg/L	103	90	110			
WG432791ICB	ICB	10/04/17 18:25				U	mg/L		-0.00015	0.00015			
WG432791LFB	LFB	10/04/17 18:28	MS170919-2	.01001		.009981	mg/L	100	85	115			
L39885-02AS	AS	10/04/17 18:36	MS170919-2	.01001	U	008764	mg/L	88	70	130			
L39885-02ASD	ASD	10/04/17 18:37	MS170919-2	.01001	U	.009071	mg/L	91	70	130	3	20	

Silver, total recoverable M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG432793													
WG432793ICV	ICV	10/04/17 22:31	MS170901-1	.02004		021531	mg/L	107	90	110			
WG432793ICB	ICB	10/04/17 22:33				U	mg/L		-0.00015	0.00015			
WG432646LRB	LRB	10/04/17 22:35				U	mg/L		-0.00011	0.00011			
WG432646LFB	LFB	10/04/17 22:37	MS170919-2	.01001		.010089	mg/L	101	85	115			
L40019-02LFM	LFM	10/04/17 22:56	MS170919-2	.01001	U	.009854	mg/L	98	70	130			
L40019-02LFMD	LFMD	10/04/17 22:58	MS170919-2	.01001	U	.009809	mg/L	98	70	130	0	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L39885

Sodium, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG432666													
WG432666ICV	ICV	10/03/17 16:14	II171002-1	100		100.42	mg/L	100	95	105			
WG432666ICB	ICB	10/03/17 16:20				U	mg/L		-0.6	0.6			
WG432530LRB	LRB	10/03/17 16:33				U	mg/L		-0.44	0.44			
WG432530LFB	LFB	10/03/17 16:36	II170920-2	100.0031		97.12	mg/L	97	85	115			
L39885-02LFM	LFM	10/03/17 16:46	II170920-2	100.0031	65.7	165.4	mg/L	100	70	130			
L39885-02LFMD	LFMD	10/03/17 16:49	II170920-2	100.0031	65.7	164.7	mg/L	99	70	130	0	20	

Sulfate M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG430666													
WG430666ICV	ICV	09/06/17 17:19	WI170906-9	50		49.5	mg/L	99	90	110			
WG430666ICB	ICB	09/06/17 17:36				U	mg/L		-0.5	0.5			
WG433058													
WG433058LFB	LFB	10/09/17 20:33	WI170906-10	30		30.6	mg/L	102	90	110			
L39870-01DUP	DUP	10/09/17 21:09			689	689	mg/L				0	20	
L39870-02AS	AS	10/09/17 21:45	WI170906-10	600	671	1290	mg/L	103	90	110			
WG434656													
WG434656LFB	LFB	10/27/17 16:56	WI170906-10	30		31.2	mg/L	104	90	110			
L39885-02DUP	DUP	10/27/17 17:32			1120	1120	mg/L				0	20	
L40119-09AS	AS	10/27/17 18:08	WI170906-10	60	U	59.9	mg/L	100	90	110			

Sulfide as S SM4500S2-D

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG431561													
WG431561ICV	ICV	09/19/17 12:45	WC170919-3	.32666		.333	mg/L	102	90	110			
WG431561ICB	ICB	09/19/17 12:48				U	mg/L		-0.06	0.06			
WG431562													
WG431562ICV	ICV	09/19/17 12:45	WC170919-3	.32666		.326	mg/L	100	90	110			
WG431562ICB	ICB	09/19/17 12:49				U	mg/L		-0.06	0.06			
WG431562LFB	LFB	09/19/17 12:53	WC170919-6	.2417733		.267	mg/L	110	80	120			
L39890-01AS	AS	09/19/17 13:47	WC170919-6	2417733	U	.237	mg/L	98	75	125			
L39890-01DUP	DUP	09/19/17 13:51			U	U	mg/L				0	20	RA

Thallium, total recoverable M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG432966													
WG432966ICV	ICV	10/06/17 12:53	MS170901-1	.05		.05089	mg/L	102	90	110			
WG432966ICB	ICB	10/06/17 12:55				U	mg/L		-0.0003	0.0003			
WG432646LRB	LRB	10/06/17 12:57				U	mg/L		-0.00022	0.00022			
WG432646LFB	LFB	10/06/17 12:59	MS170919-2	.0501		.04433	mg/L	88	85	115			
L40019-02LFM	LFM	10/06/17 13:09	MS170919-2	.0501	U	.04588	mg/L	92	70	130			
L40019-02LFMD	LFMD	10/06/17 13:11	MS170919-2	.0501	U	.04484	mg/L	90	70	130	2	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L39885

Tin, total recoverable **M200.7 ICP**

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG432666													
WG432666ICV	ICV	10/03/17 16:14	II171002-1	2		2.041	mg/L	102	95	105			
WG432666ICB	ICB	10/03/17 16:20				U	mg/L		-0.12	0.12			
WG432530LRB	LRB	10/03/17 16:33				U	mg/L		-0.088	0.088			
WG432530LFB	LFB	10/03/17 16:36	II170920-2	.989		.991	mg/L	100	85	115			
L39885-02LFM	LFM	10/03/17 16:46	II170920-2	.989	U	1.006	mg/L	102	70	130			
L39885-02LFMD	LFMD	10/03/17 16:49	II170920-2	.989	U	.994	mg/L	101	70	130	1	20	

Uranium, dissolved **M200.8 ICP-MS**

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG432791													
WG432791ICV	ICV	10/04/17 18:22	MS170901-1	.05		.05124	mg/L	102	90	110			
WG432791ICB	ICB	10/04/17 18:25				U	mg/L		-0.0003	0.0003			
WG432791LFB	LFB	10/04/17 18:28	MS170919-2	.05		.05054	mg/L	101	85	115			
L39885-02AS	AS	10/04/17 18:36	MS170919-2	.05	.1947	.2438	mg/L	98	70	130			
L39885-02ASD	ASD	10/04/17 18:37	MS170919-2	.05	.1947	.2487	mg/L	108	70	130	2	20	

Uranium, total recoverable **M200.8 ICP-MS**

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG432793													
WG432793ICV	ICV	10/04/17 22:31	MS170901-1	.05		.05149	mg/L	103	90	110			
WG432793ICB	ICB	10/04/17 22:33				U	mg/L		-0.0003	0.0003			
WG432646LRB	LRB	10/04/17 22:35				U	mg/L		-0.00022	0.00022			
WG432646LFB	LFB	10/04/17 22:37	MS170919-2	.05		.04971	mg/L	99	85	115			
L40019-02LFM	LFM	10/04/17 22:56	MS170919-2	.05	.0001	.05075	mg/L	101	70	130			
L40019-02LFMD	LFMD	10/04/17 22:58	MS170919-2	.05	.0001	.05089	mg/L	102	70	130	0	20	

Vanadium, total recoverable **M200.7 ICP**

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG432666													
WG432666ICV	ICV	10/03/17 16:14	II171002-1	2		2.0237	mg/L	101	95	105			
WG432666ICB	ICB	10/03/17 16:20				U	mg/L		-0.015	0.015			
WG432530LRB	LRB	10/03/17 16:33				U	mg/L		-0.011	0.011			
WG432530LFB	LFB	10/03/17 16:36	II170920-2	.4985		.4859	mg/L	97	85	115			
L39885-02LFM	LFM	10/03/17 16:46	II170920-2	.4985	U	.5037	mg/L	101	70	130			
L39885-02LFMD	LFMD	10/03/17 16:49	II170920-2	.4985	U	.4994	mg/L	100	70	130	1	20	

Zinc, dissolved **M200.7 ICP**

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG432608													
WG432608ICV	ICV	10/02/17 18:51	II171002-1	2		1.952	mg/L	98	95	105			
WG432608ICB	ICB	10/02/17 18:57				U	mg/L		-0.03	0.03			
WG432608LFB	LFB	10/02/17 19:10	II170920-2	.4942		.563	mg/L	114	85	115			
L39885-03AS	AS	10/02/17 19:23	II170920-2	.4942	.53	1.014	mg/L	98	85	115			
L39885-03ASD	ASD	10/02/17 19:26	II170920-2	.4942	.53	1.034	mg/L	102	85	115	2	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L39885**

Zinc, total recoverable		M200.7 ICP											
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG432666													
WG432666ICV	ICV	10/03/17 16:14	II171002-1	2		1.967	mg/L	98	95	105			
WG432666ICB	ICB	10/03/17 16:20				U	mg/L		-0.03	0.03			
WG432530LRB	LRB	10/03/17 16:33				U	mg/L		-0.022	0.022			
WG432530LFB	LFB	10/03/17 16:36	II170920-2	.4942		.501	mg/L	101	85	115			
L39885-02LFM	LFM	10/03/17 16:46	II170920-2	.4942	U	.51	mg/L	103	70	130			
L39885-02LFMD	LFMD	10/03/17 16:49	II170920-2	.4942	U	.501	mg/L	101	70	130	2	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L39885**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L39885-01	WG431368	Biochemical Oxygen Demand (5 day)	SM5210B	K1	The sample dilutions set-up for the BOD/CBOD analysis did not meet the oxygen depletion criteria of at least 2 mg/L. Any reported result is an estimated value.
			SM5210B	KA	The seed depletion was outside the method acceptance limits, the DO-axis intercept is > 0.2 mg/L. The reported result is an estimated value.
			SM5210B	RJ	LCS/LCSD RPD or RSD exceeded the method or laboratory control limit. Sample(s) could not be re-prepped. See Case Narrative.
	WG431877	Chemical Oxygen Demand	M410.4	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG433058	Fluoride	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG432510	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG432845	Nitrogen, ammonia	M350.1 Auto Salicylate w/gas diffusion	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M350.1 Auto Salicylate w/gas diffusion	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG432286	Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG431592	Residue, Filterable (TDS) @180C	SM2540C	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG432666	Silica, total recoverable	M200.7 ICP	ZS	Digestion procedures have the potential to trigger silica polymerization and precipitation, leading to low biased results. Silica chemistry is complex and polymerization kinetics are unpredictable. Dissolved and/or acid soluble silica analyses may provide more accurate measurements.
	WG431562	Sulfide as S	SM4500S2-D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L39885**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L39885-02	WG431368	Biochemical Oxygen Demand (5 day)	SM5210B	KA	The seed depletion was outside the method acceptance limits, the DO-axis intercept is > 0.2 mg/L. The reported result is an estimated value.
			SM5210B	RJ	LCS/LCSD RPD or RSD exceeded the method or laboratory control limit. Sample(s) could not be re-prepped. See Case Narrative.
	WG431877	Chemical Oxygen Demand	M410.4	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG433058	Fluoride	M300.0 - Ion Chromatography	DC	Sample required dilution. Non-target analyte exceeded calibration range.
			M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG432510	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG432845	Nitrogen, ammonia	M350.1 Auto Salicylate w/gas diffusion	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M350.1 Auto Salicylate w/gas diffusion	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG433365	Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG431592	Residue, Filterable (TDS) @180C	SM2540C	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG432666	Silica, total recoverable	M200.7 ICP	ZS	Digestion procedures have the potential to trigger silica polymerization and precipitation, leading to low biased results. Silica chemistry is complex and polymerization kinetics are unpredictable. Dissolved and/or acid soluble silica analyses may provide more accurate measurements.
	WG434658	Sulfate	M300.0 - Ion Chromatography	H2	Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
	WG431562	Sulfide as S	SM4500S2-D	QD	Reported value is the background-corrected concentration, as described by the method.
			SM4500S2-D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L39885**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L39885-03	WG431368	Biochemical Oxygen Demand (5 day)	SM5210B	K1	The sample dilutions set-up for the BOD/CBOD analysis did not meet the oxygen depletion criteria of at least 2 mg/L. Any reported result is an estimated value.
			SM5210B	KA	The seed depletion was outside the method acceptance limits, the DO-axis intercept is > 0.2 mg/L. The reported result is an estimated value.
			SM5210B	RJ	LCS/LCSD RPD or RSD exceeded the method or laboratory control limit. Sample(s) could not be re-prepped. See Case Narrative.
	WG431877	Chemical Oxygen Demand	M410.4	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG433058	Fluoride	M300.0 - Ion Chromatography	DC	Sample required dilution. Non-target analyte exceeded calibration range.
			M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG432510	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG432845	Nitrogen, ammonia	M350.1 Auto Salicylate w/gas diffusion	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M350.1 Auto Salicylate w/gas diffusion	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG433365	Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG431592	Residue, Filterable (TDS) @180C	SM2540C	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG432666	Silica, total recoverable	M200.7 ICP	ZS	Digestion procedures have the potential to trigger silica polymerization and precipitation, leading to low biased results. Silica chemistry is complex and polymerization kinetics are unpredictable. Dissolved and/or acid soluble silica analyses may provide more accurate measurements.
	WG431562	Sulfide as S	SM4500S2-D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).

Energy Fuels Resources (USA) Inc.
 Canyon Mine 3rd Quarter 2017

ACZ Project ID: L39885
 Date Received: 09/15/2017 09:54
 Received By:
 Date Printed: 9/15/2017

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody form or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?		X	
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody form complete and accurate?	X		
7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples? A change was made in the Sample ID Lines 1&2 section prior to ACZ custody.	X		

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits? ¹	X		
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?	X		

NA indicates Not Applicable

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp (°C)	Temp Criteria (°C)	Rad (µR/Hr)	Custody Seal Intact?
3525	3.3	<=6.0	13	Yes
4687	4	<=6.0	13	Yes
5213	5.3	<=6.0	14	Yes

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

Energy Fuels Resources (USA) Inc.
Canyon Mine 3rd Quarter 2017

ACZ Project ID: L39885
Date Received: 09/15/2017 09:54
Received By:
Date Printed: 9/15/2017

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

¹ The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na₂S₂O₃ preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).

December 07, 2017

Report to:

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

Bill to:

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

Project ID: Canyon Mine 4th Quarter 2017

ACZ Project ID: L40609

Kathy Weinel:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on October 18, 2017. This project has been assigned to ACZ's project number, L40609. Please reference this number in all future inquiries.

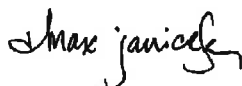
All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L40609. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after January 06, 2018. If the samples are determined to be hazardous, additional charges apply for disposal (typically \$11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.



Max Janicek has reviewed and approved this report.



Energy Fuels Resources (USA) Inc.

December 07, 2017

Project ID: Canyon Mine 4th Quarter 2017

ACZ Project ID: L40609

Sample Receipt

ACZ Laboratories, Inc. (ACZ) received 3 ground water samples from Energy Fuels Resources (USA) Inc. on October 18, 2017. The samples were received in good condition. Upon receipt, the sample custodian removed the samples from the cooler, inspected the contents, and logged the samples into ACZ's computerized Laboratory Information Management System (LIMS). The samples were assigned ACZ LIMS project number L40609. The custodian verified the sample information entered into the computer against the chain of custody (COC) forms and sample bottle labels.

Holding Times

Any analyses not performed within EPA recommended holding times have been qualified with an "H" flag.

Sample Analysis

These samples were analyzed for inorganic, organic, radiochemistry parameters. The individual methods are referenced on both the ACZ invoice and the analytical reports. The extended qualifier reports may contain footnotes qualifying specific elements due to QC failures. In addition the following has been noted with this specific project:

The total recoverable Antimony results for L40609-03 have been qualified with the N1 flag on the extended qualifier report. The chemist noted that the associated Lab Fortified Blank (LFB) had recovery above standard acceptance limits for this analyte. There is insufficient sample to re-digest and reanalyze for Antimony; comparison of results to historical levels and/or data qualification may be necessary.

Energy Fuels Resources (USA) Inc.

Project ID: Canyon Mine 4th Quarter 20
 Sample ID: DEEP WATER WELL

ACZ Sample ID: **L40609-01**
 Date Sampled: 10/17/17 07:15
 Date Received: 10/18/17
 Sample Matrix: Ground Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Nitrogen, total Kjeldahl	M351.2 - Block Digestor								11/01/17 12:20	spl
Total Recoverable Digestion	M200.2 ICP								11/03/17 9:19	scp
Total Recoverable Digestion	M200.2 ICP-MS								10/31/17 17:03	mfm

Energy Fuels Resources (USA) Inc.

Project ID: Canyon Mine 4th Quarter 20
Sample ID: DEEP WATER WELL

ACZ Sample ID: **L40609-01**
Date Sampled: 10/17/17 07:15
Date Received: 10/18/17
Sample Matrix: Ground Water

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, total recoverable	M200.7 ICP	1		U		mg/L	0.03	0.2	11/06/17 16:07	aeH
Antimony, total recoverable	M200.8 ICP-MS	1		U	*	mg/L	0.0004	0.002	11/01/17 13:01	mfm
Arsenic, total recoverable	M200.8 ICP-MS	1	0.0006	B		mg/L	0.0002	0.001	11/01/17 13:01	mfm
Barium, total recoverable	M200.7 ICP	1	0.106			mg/L	0.003	0.02	11/06/17 16:07	aeH
Beryllium, total recoverable	M200.8 ICP-MS	1		U		mg/L	0.00005	0.0003	11/01/17 13:01	mfm
Boron, total recoverable	M200.7 ICP	1	0.03	B		mg/L	0.01	0.05	11/06/17 16:07	aeH
Cadmium, total recoverable	M200.8 ICP-MS	1		U		mg/L	0.0001	0.0005	11/01/17 13:01	mfm
Calcium, total recoverable	M200.7 ICP	1	41.5			mg/L	0.1	0.5	11/06/17 16:07	aeH
Chromium, total recoverable	M200.7 ICP	1		U		mg/L	0.01	0.05	11/06/17 16:07	aeH
Cobalt, total recoverable	M200.8 ICP-MS	1	0.00017	B		mg/L	0.00005	0.0003	11/01/17 13:01	mfm
Copper, dissolved	M200.7 ICP	1		U		mg/L	0.01	0.05	11/03/17 19:21	dcm
Copper, total recoverable	M200.7 ICP	1		U		mg/L	0.01	0.05	11/06/17 16:07	aeH
Iron, dissolved	M200.7 ICP	1		U		mg/L	0.02	0.05	11/03/17 19:21	dcm
Iron, total recoverable	M200.7 ICP	1	0.27			mg/L	0.02	0.05	11/06/17 16:07	aeH
Lead, dissolved	M200.8 ICP-MS	1	0.0001	B		mg/L	0.0001	0.0005	11/09/17 18:23	msh
Lead, total recoverable	M200.8 ICP-MS	1	0.001			mg/L	0.0001	0.0005	11/01/17 13:01	mfm
Magnesium, total recoverable	M200.7 ICP	1	28.6			mg/L	0.2	1	11/06/17 16:07	aeH
Manganese, total recoverable	M200.7 ICP	1	0.011	B		mg/L	0.005	0.03	11/06/17 16:07	aeH
Mercury, total	M245.1 CVAA	1		U		mg/L	0.0002	0.001	11/07/17 9:47	sck
Molybdenum, total recoverable	M200.8 ICP-MS	1	0.0011	B		mg/L	0.0005	0.003	11/01/17 13:01	mfm
Nickel, total recoverable	M200.7 ICP	1		U		mg/L	0.008	0.04	11/06/17 16:07	aeH
Potassium, total recoverable	M200.7 ICP	1	2.3			mg/L	0.2	1	11/06/17 16:07	aeH
Selenium, total recoverable	M200.8 ICP-MS	1	0.0068			mg/L	0.0001	0.0003	11/01/17 13:01	mfm
Silica, total recoverable	M200.7 ICP	1	9.4		*	mg/L	0.2	1	11/06/17 16:07	aeH
Silver, dissolved	M200.8 ICP-MS	1		U		mg/L	0.00005	0.0003	11/09/17 18:23	msh
Silver, total recoverable	M200.8 ICP-MS	1		U		mg/L	0.00005	0.0003	11/01/17 13:01	mfm
Sodium, total recoverable	M200.7 ICP	1	6.6			mg/L	0.2	1	11/06/17 16:07	aeH
Thallium, total recoverable	M200.8 ICP-MS	1		U		mg/L	0.0001	0.0005	11/01/17 13:01	mfm
Tin, total recoverable	M200.7 ICP	1		U		mg/L	0.04	0.2	11/06/17 16:07	aeH
Uranium, dissolved	M200.8 ICP-MS	1	0.0141			mg/L	0.0001	0.0005	11/09/17 18:23	msh

Energy Fuels Resources (USA) Inc.

Project ID: Canyon Mine 4th Quarter 20
 Sample ID: DEEP WATER WELL

ACZ Sample ID: **L40609-01**
 Date Sampled: 10/17/17 07:15
 Date Received: 10/18/17
 Sample Matrix: Ground Water

Uranium, total recoverable	M200.8 ICP-MS	1	0.013		mg/L	0.0001	0.0005	11/01/17 13:01	mfm
Vanadium, total recoverable	M200.7 ICP	1		U	mg/L	0.005	0.03	11/06/17 16:07	ahh
Zinc, dissolved	M200.7 ICP	1		U	mg/L	0.01	0.05	11/03/17 19:21	dcm
Zinc, total recoverable	M200.7 ICP	1	0.01	B	mg/L	0.01	0.05	11/06/17 16:07	ahh

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	207			mg/L	2	20	10/20/17 0:00	emk
Carbonate as CaCO3		1	3.0	B		mg/L	2	20	10/20/17 0:00	emk
Hydroxide as CaCO3		1		U		mg/L	2	20	10/20/17 0:00	emk
Total Alkalinity		1	210			mg/L	2	20	10/20/17 0:00	emk
Biochemical Oxygen Demand (5 day)	SM5210B	1		U	*	mg/L	2	2	10/18/17 15:11	che
Chemical Oxygen Demand	M410.4	1		U	*	mg/L	10	20	11/03/17 10:00	che
Chloride	M300.0 - Ion Chromatography	1	7.28	H	*	mg/L	0.4	2	11/17/17 1:41	krh
Conductivity @25C	SM2510B	1	432			umhos/cm	1	10	10/20/17 2:04	emk
Fluoride	M300.0 - Ion Chromatography	1	0.28	H	*	mg/L	0.05	0.25	11/17/17 1:41	krh
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	0.20			mg/L	0.02	0.1	11/02/17 23:06	pjb
Nitrogen, ammonia w/gas diffusion	M350.1 Auto Salicylate	1		U	*	mg/L	0.05	0.2	11/08/17 12:18	las
Nitrogen, organic	M351.2 & M350.1 - TKN minus NH3			U		mg/L	0.1	0.5	12/07/17 0:00	calc
Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	1		U	*	mg/L	0.1	0.5	11/02/17 23:04	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	234			mg/L	10	20	10/19/17 11:16	che
Residue, Non-Filterable (TSS) @105C	SM2540D	2		U	*	mg/L	10	40	10/19/17 13:23	che
Sulfate	M300.0 - Ion Chromatography	1	15.7	H	*	mg/L	0.4	2	11/17/17 1:41	krh
Sulfide as S	SM4500S2-D	1		U	*	mg/L	0.02	0.1	10/18/17 13:37	emk

Arizona license number: AZ0102



Report Header Explanations

<i>Batch</i>	A distinct set of samples analyzed at a specific time
<i>Found</i>	Value of the QC Type of interest
<i>Limit</i>	Upper limit for RPD, in %.
<i>Lower</i>	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
<i>MDL</i>	Method Detection Limit. Same as Minimum Reporting Limit unless omitted or equal to the PQL (see comment #5). Allows for instrument and annual fluctuations.
<i>PCN/SCN</i>	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
<i>PQL</i>	Practical Quantitation Limit. Synonymous with the EPA term "minimum level".
<i>QC</i>	True Value of the Control Sample or the amount added to the Spike
<i>Rec</i>	Recovered amount of the true value or spike added, in % (except for LCSS, mg/Kg)
<i>RPD</i>	Relative Percent Difference, calculation used for Duplicate QC Types
<i>Upper</i>	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
<i>Sample</i>	Value of the Sample of interest

QC Sample Types

<i>AS</i>	Analytical Spike (Post Digestion)	<i>LCSWD</i>	Laboratory Control Sample - Water Duplicate
<i>ASD</i>	Analytical Spike (Post Digestion) Duplicate	<i>LFB</i>	Laboratory Fortified Blank
<i>CCB</i>	Continuing Calibration Blank	<i>LFM</i>	Laboratory Fortified Matrix
<i>CCV</i>	Continuing Calibration Verification standard	<i>LFMD</i>	Laboratory Fortified Matrix Duplicate
<i>DUP</i>	Sample Duplicate	<i>LRB</i>	Laboratory Reagent Blank
<i>ICB</i>	Initial Calibration Blank	<i>MS</i>	Matrix Spike
<i>ICV</i>	Initial Calibration Verification standard	<i>MSD</i>	Matrix Spike Duplicate
<i>ICSAB</i>	Inter-element Correction Standard - A plus B solutions	<i>PBS</i>	Prep Blank - Soil
<i>LCSS</i>	Laboratory Control Sample - Soil	<i>PBW</i>	Prep Blank - Water
<i>LCSSD</i>	Laboratory Control Sample - Soil Duplicate	<i>PQV</i>	Practical Quantitation Verification standard
<i>LCSW</i>	Laboratory Control Sample - Water	<i>SDL</i>	Serial Dilution

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method or calibration procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Spikes/Fortified Matrix	Determines sample matrix interferences, if any.
Standard	Verifies the validity of the calibration.

ACZ Qualifiers (Qual)

B	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
L	Target analyte response was below the laboratory defined negative threshold.
U	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

Method References

- (1) EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
- (2) EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
- (3) EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.
- (4) EPA SW-846. Test Methods for Evaluating Solid Waste.
- (5) Standard Methods for the Examination of Water and Wastewater.

Comments

- (1) QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
- (2) Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
- (3) Animal matrices for Inorganic analyses are reported on an "as received" basis.
- (4) An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.
- (5) If the MDL equals the PQL or the MDL column is omitted, the PQL is the reporting limit

For a complete list of ACZ's Extended Qualifiers, please click:

<http://www.acz.com/public/extquallist.pdf>

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L40609

Alkalinity as CaCO3

SM2320B - Titration

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG433991													
WG433991PBW1	PBW	10/19/17 16:21				U	mg/L		-20	20			
WG433991LCSW3	LCSW	10/19/17 16:36	WC171017-7	820.0001		790	mg/L	96	90	110			
WG433991LCSW6	LCSW	10/19/17 20:08	WC171017-7	820.0001		818	mg/L	100	90	110			
WG433991PBW2	PBW	10/19/17 20:16				2.6	mg/L		-20	20			
WG433991LCSW9	LCSW	10/20/17 0:30	WC171017-7	820.0001		818	mg/L	100	90	110			
WG433991PBW3	PBW	10/20/17 0:39				3	mg/L		-20	20			
L40602-01DUP	DUP	10/20/17 2:21			132	130	mg/L				2	20	
L40610-02DUP	DUP	10/20/17 3:07			95.2	101	mg/L				6	20	
WG433991LCSW12	LCSW	10/20/17 3:23	WC171017-7	820.0001		821	mg/L	100	90	110			
WG433991PBW4	PBW	10/20/17 3:31				U	mg/L		-20	20			
WG433991LCSW15	LCSW	10/20/17 6:45	WC171017-7	820.0001		822	mg/L	100	90	110			

Aluminum, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG435397													
WG435397ICV	ICV	11/06/17 15:38	II171020-1	2		1.946	mg/L	97	95	105			
WG435397ICB	ICB	11/06/17 15:44				U	mg/L		-0.09	0.09			
WG435205LRB	LRB	11/06/17 16:00				U	mg/L		-0.066	0.066			
WG435205LFB	LFB	11/06/17 16:03	II171025-2	1.0019		1.051	mg/L	105	85	115			
L40718-04LFM	LFM	11/06/17 16:26	II171025-2	1.0019	U	1.046	mg/L	104	70	130			
L40718-04LFMD	LFMD	11/06/17 16:36	II171025-2	1.0019	U	1.036	mg/L	103	70	130	1	20	

Antimony, total recoverable

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG435023													
WG435023ICV	ICV	11/01/17 12:43	MS171020-3	.02		.02176	mg/L	109	90	110			
WG435023ICB	ICB	11/01/17 12:46				.00065	mg/L		-0.0012	0.0012			
WG434930LRB	LRB	11/01/17 12:49				U	mg/L		-0.00088	0.00088			
WG434930LFB	LFB	11/01/17 12:52	MS171009-2	.01		.01203	mg/L	120	85	115			LA
L40609-02LFM	LFM	11/01/17 13:07	MS171009-2	.01	U	.01264	mg/L	126	70	130			
L40609-02LFMD	LFMD	11/01/17 13:10	MS171009-2	.01	U	.01261	mg/L	126	70	130	0	20	
WG435172													
WG435172ICV	ICV	11/03/17 12:56	MS171020-3	.02		.02178	mg/L	109	90	110			
WG435172ICB	ICB	11/03/17 12:58				.00073	mg/L		-0.0012	0.0012			
WG434629LRB	LRB	11/03/17 13:00				U	mg/L		-0.00088	0.00088			
WG434930LRB	LRB	11/03/17 13:14				U	mg/L		-0.00088	0.00088			
WG434930LFB	LFB	11/03/17 13:16	MS171009-2	.01		01375	mg/L	138	85	115			N1
L40609-02LFM	LFM	11/03/17 13:24	MS171009-2	.01	.0006	.01462	mg/L	140	70	130			M1
L40609-02LFMD	LFMD	11/03/17 13:26	MS171009-2	.01	.0006	.01457	mg/L	140	70	130	0	20	M1

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L40609**

Arsenic, total recoverable M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG435023													
WG435023ICV	ICV	11/01/17 12:43	MS171020-3	.05		.05039	mg/L	101	90	110			
WG435023ICB	ICB	11/01/17 12:46				U	mg/L		-0.0006	0.0006			
WG434930LRB	LRB	11/01/17 12:49				U	mg/L		-0.00044	0.00044			
WG434930LFB	LFB	11/01/17 12:52	MS171009-2	.0501		.04937	mg/L	99	85	115			
L40609-02LFM	LFM	11/01/17 13:07	MS171009-2	.0501	.0148	.06762	mg/L	105	70	130			
L40609-02LFMD	LFMD	11/01/17 13:10	MS171009-2	.0501	.0148	.06652	mg/L	103	70	130	2	20	

Barium, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG435397													
WG435397ICV	ICV	11/06/17 15:38	II171020-1	2		1.9598	mg/L	98	95	105			
WG435397ICB	ICB	11/06/17 15:44				U	mg/L		-0.009	0.009			
WG435205LRB	LRB	11/06/17 16:00				U	mg/L		-0.0066	0.0066			
WG435205LFB	LFB	11/06/17 16:03	II171025-2	.5015		.5113	mg/L	102	85	115			
L40718-04LFM	LFM	11/06/17 16:26	II171025-2	.5015	U	.5071	mg/L	101	70	130			
L40718-04LFMD	LFMD	11/06/17 16:36	II171025-2	.5015	U	.5008	mg/L	100	70	130	1	20	

Beryllium, total recoverable M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG435023													
WG435023ICV	ICV	11/01/17 12:43	MS171020-3	.05		.04801	mg/L	96	90	110			
WG435023ICB	ICB	11/01/17 12:46				U	mg/L		-0.00015	0.00015			
WG434930LRB	LRB	11/01/17 12:49				U	mg/L		-0.00011	0.00011			
WG434930LFB	LFB	11/01/17 12:52	MS171009-2	.05035		.04853	mg/L	96	85	115			
L40609-02LFM	LFM	11/01/17 13:07	MS171009-2	.05035	.0002	.0493	mg/L	98	70	130			
L40609-02LFMD	LFMD	11/01/17 13:10	MS171009-2	.05035	.0002	.04876	mg/L	96	70	130	1	20	

Biochemical Oxygen Demand (5 day) SM5210B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG433871													
WG433871LCSW1	LCSW	10/18/17 15:56	BODLCSW	198		195	mg/L	98	84.6	115.4			
WG433871LCSW2	LCSW	10/18/17 16:00	BODLCSW	198		152	mg/L	77	84.6	115.4			
WG433871LCSW3	LCSW	10/18/17 16:04	BODLCSW	198		183	mg/L	92	84.6	115.4			

Boron, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG435397													
WG435397ICV	ICV	11/06/17 15:38	II171020-1	2		1.996	mg/L	100	95	105			
WG435397ICB	ICB	11/06/17 15:44				U	mg/L		-0.03	0.03			
WG435205LRB	LRB	11/06/17 16:00				U	mg/L		-0.022	0.022			
WG435205LFB	LFB	11/06/17 16:03	II171025-2	.5005		.5	mg/L	100	85	115			
L40718-04LFM	LFM	11/06/17 16:26	II171025-2	.5005	U	.499	mg/L	100	70	130			
L40718-04LFMD	LFMD	11/06/17 16:36	II171025-2	.5005	U	.494	mg/L	99	70	130	1	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L40609**

Cadmium, total recoverable M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG435023													
WG435023ICV	ICV	11/01/17 12:43	MS171020-3	.05		.05139	mg/L	103	90	110			
WG435023ICB	ICB	11/01/17 12:46				U	mg/L		-0.0003	0.0003			
WG434930LRB	LRB	11/01/17 12:49				U	mg/L		-0.00022	0.00022			
WG434930LFB	LFB	11/01/17 12:52	MS171009-2	.05005		.04941	mg/L	99	85	115			
L40609-02LFM	LFM	11/01/17 13:07	MS171009-2	.05005	.0024	.04984	mg/L	95	70	130			
L40609-02LFMD	LFMD	11/01/17 13:10	MS171009-2	.05005	0024	.05004	mg/L	95	70	130	0	20	

Calcium, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG435397													
WG435397ICV	ICV	11/06/17 15:38	II171020-1	100		99.58	mg/L	100	95	105			
WG435397ICB	ICB	11/06/17 15:44				U	mg/L		-0.3	0.3			
WG435205LRB	LRB	11/06/17 16:00				U	mg/L		-0.22	0.22			
WG435205LFB	LFB	11/06/17 16:03	II171025-2	68.01098		69.32	mg/L	102	85	115			
L40718-04LFM	LFM	11/06/17 16:26	II171025-2	68.01098	U	68.91	mg/L	101	70	130			
L40718-04LFMD	LFMD	11/06/17 16:36	II171025-2	68.01098	U	68.43	mg/L	101	70	130	1	20	

Chemical Oxygen Demand M410.4

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG435211													
WG435211ICV	ICV	11/03/17 9:00	WC171017-4	200		203	mg/L	102	90	110			
WG435211ICB	ICB	11/03/17 9:15				U	mg/L		-10	10			
WG435211LRB	LRB	11/03/17 9:30				U	mg/L		-10	10			
WG435211LFB	LFB	11/03/17 9:45	WC171017-6	50		53	mg/L	106	90	110			
L40830-03DUP	DUP	11/03/17 13:00			U	U	mg/L				0	20	RA
L40830-03AS	AS	11/03/17 13:15	WC171017-6	50	U	56	mg/L	112	90	110			M1

Chloride M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG430666													
WG430666ICV	ICV	09/06/17 17:19	WI170906-9	20.06		20.1	mg/L	100	90	110			
WG430666ICB	ICB	09/06/17 17:36				U	mg/L		-0.5	0.5			
WG435473													
WG435473LFB	LFB	11/07/17 21:01	WI170906-10	30		31.4	mg/L	105	90	110			
L40609-02AS	AS	11/07/17 23:24	WI170906-10	1500	109	1670	mg/L	104	90	110			
L40609-01DUP	DUP	11/17/17 1:59			7.28	7.27	mg/L				0	20	

Chromium, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG435397													
WG435397ICV	ICV	11/06/17 15:38	II171020-1	2		1.954	mg/L	98	95	105			
WG435397ICB	ICB	11/06/17 15:44				U	mg/L		-0.03	0.03			
WG435205LRB	LRB	11/06/17 16:00				U	mg/L		-0.022	0.022			
WG435205LFB	LFB	11/06/17 16:03	II171025-2	.498		.505	mg/L	101	85	115			
L40718-04LFM	LFM	11/06/17 16:26	II171025-2	.498	U	.502	mg/L	101	70	130			
L40718-04LFMD	LFMD	11/06/17 16:36	II171025-2	.498	U	.499	mg/L	100	70	130	1	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L40609**

Cobalt, total recoverable M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG435023													
WG435023ICV	ICV	11/01/17 12:43	MS171020-3	.05		.05365	mg/L	107	90	110			
WG435023ICB	ICB	11/01/17 12:46				U	mg/L		-0.00015	0.00015			
WG434930LRB	LRB	11/01/17 12:49				U	mg/L		-0.00011	0.00011			
WG434930LFB	LFB	11/01/17 12:52	MS171009-2	.05005		.05076	mg/L	101	85	115			
L40609-02LFM	LFM	11/01/17 13:07	MS171009-2	.05005	.0455	.09704	mg/L	103	70	130			
L40609-02LFMD	LFMD	11/01/17 13:10	MS171009-2	.05005	.0455	.09652	mg/L	102	70	130	1	20	

Conductivity @25C SM2510B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG433991													
WG433991LCSW2	LCSW	10/19/17 16:25	PCN54242	1410		1400	umhos/cm	99	90	110			
WG433991LCSW5	LCSW	10/19/17 19:57	PCN54242	1410		1400	umhos/cm	99	90	110			
WG433991LCSW8	LCSW	10/20/17 0:19	PCN54242	1410		1400	umhos/cm	99	90	110			
L40602-01DUP	DUP	10/20/17 2:21			333	332	umhos/cm				0	20	
L40610-02DUP	DUP	10/20/17 3:07			1750	1740	umhos/cm				1	20	
WG433991LCSW11	LCSW	10/20/17 3:12	PCN54242	1410		1380	umhos/cm	98	90	110			
WG433991LCSW14	LCSW	10/20/17 6:33	PCN54242	1410		1380	umhos/cm	98	90	110			

Copper, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG435272													
WG435272ICV	ICV	11/03/17 19:00	II171020-1	2		1.94	mg/L	97	95	105			
WG435272ICB	ICB	11/03/17 19:06				U	mg/L		-0.03	0.03			
WG435272LFB	LFB	11/03/17 19:18	II171025-2	.5		.514	mg/L	103	85	115			
L40682-02AS	AS	11/03/17 19:36	II171025-2	.5	U	.532	mg/L	106	85	115			
L40682-02ASD	ASD	11/03/17 19:40	II171025-2	.5	U	.531	mg/L	106	85	115	0	20	

Copper, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG435397													
WG435397ICV	ICV	11/06/17 15:38	II171020-1	2		1.938	mg/L	97	95	105			
WG435397ICB	ICB	11/06/17 15:44				U	mg/L		-0.03	0.03			
WG435205LRB	LRB	11/06/17 16:00				U	mg/L		-0.022	0.022			
WG435205LFB	LFB	11/06/17 16:03	II171025-2	.5		.505	mg/L	101	85	115			
L40718-04LFM	LFM	11/06/17 16:26	II171025-2	.5	U	.502	mg/L	100	70	130			
L40718-04LFMD	LFMD	11/06/17 16:36	II171025-2	.5	U	.498	mg/L	100	70	130	1	20	

Fluoride M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG430666													
WG430666ICV	ICV	09/06/17 17:19	WI170906-9	3.996		4.09	mg/L	102	90	110			
WG430666ICB	ICB	09/06/17 17:36				U	mg/L		-0.05	0.05			
WG435473													
WG435473LFB	LFB	11/07/17 21:01	WI170906-10	1.5		1.6	mg/L	107	90	110			
L40609-02AS	AS	11/07/17 23:24	WI170906-10	75	6.2	86.5	mg/L	107	90	110			
L40609-01DUP	DUP	11/17/17 1:59			.28	.28	mg/L				0	20	RA

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L40609**

Iron, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG435272													
WG435272ICV	ICV	11/03/17 19:00	II171020-1	2		1.918	mg/L	96	95	105			
WG435272ICB	ICB	11/03/17 19:06				U	mg/L		-0.06	0.06			
WG435272LFB	LFB	11/03/17 19:18	II171025-2	1.0011		1.023	mg/L	102	85	115			
L40682-02AS	AS	11/03/17 19:36	II171025-2	1.0011	U	1.048	mg/L	105	85	115			
L40682-02ASD	ASD	11/03/17 19:40	II171025-2	1.0011	U	1.053	mg/L	105	85	115	0	20	

Iron, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG435397													
WG435397ICV	ICV	11/06/17 15:38	II171020-1	2		1.93	mg/L	97	95	105			
WG435397ICB	ICB	11/06/17 15:44				U	mg/L		-0.06	0.06			
WG435205LRB	LRB	11/06/17 16:00				U	mg/L		-0.044	0.044			
WG435205LFB	LFB	11/06/17 16:03	II171025-2	1.0011		1.009	mg/L	101	85	115			
L40718-04LFM	LFM	11/06/17 16:26	II171025-2	1.0011	U	.996	mg/L	99	70	130			
L40718-04LFMD	LFMD	11/06/17 16:36	II171025-2	1.0011	U	.989	mg/L	99	70	130	1	20	

Lead, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG435703													
WG435703ICV	ICV	11/09/17 18:17	MS171020-3	.05		.05292	mg/L	106	90	110			
WG435703ICB	ICB	11/09/17 18:19				U	mg/L		-0.0003	0.0003			
WG435703LFB	LFB	11/09/17 18:21	MS171009-2	.0496		.05035	mg/L	102	85	115			
L40609-03AS	AS	11/09/17 18:29	MS171009-2	.0496	U	.05012	mg/L	101	70	130			
L40609-03ASD	ASD	11/09/17 18:31	MS171009-2	.0496	U	.05043	mg/L	102	70	130	1	20	

Lead, total recoverable

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG435023													
WG435023ICV	ICV	11/01/17 12:43	MS171020-3	.05		.0517	mg/L	103	90	110			
WG435023ICB	ICB	11/01/17 12:46				U	mg/L		-0.0003	0.0003			
WG434930LRB	LRB	11/01/17 12:49				U	mg/L		-0.00022	0.00022			
WG434930LFB	LFB	11/01/17 12:52	MS171009-2	.0496		.0486	mg/L	98	85	115			
L40609-02LFM	LFM	11/01/17 13:07	MS171009-2	.0496	.0032	.05172	mg/L	98	70	130			
L40609-02LFMD	LFMD	11/01/17 13:10	MS171009-2	.0496	.0032	.05142	mg/L	97	70	130	1	20	

Magnesium, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG435397													
WG435397ICV	ICV	11/06/17 15:38	II171020-1	100		99.85	mg/L	100	95	105			
WG435397ICB	ICB	11/06/17 15:44				U	mg/L		-0.6	0.6			
WG435205LRB	LRB	11/06/17 16:00				U	mg/L		-0.44	0.44			
WG435205LFB	LFB	11/06/17 16:03	II171025-2	50.18882		48.21	mg/L	96	85	115			
L40718-04LFM	LFM	11/06/17 16:26	II171025-2	50.18882	U	48.01	mg/L	96	70	130			
L40718-04LFMD	LFMD	11/06/17 16:36	II171025-2	50.18882	U	47.62	mg/L	95	70	130	1	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L40609**

Manganese, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG435397													
WG435397ICV	ICV	11/06/17 15:38	II171020-1	2		1.9648	mg/L	98	95	105			
WG435397ICB	ICB	11/06/17 15:44				U	mg/L		-0.015	0.015			
WG435205LRB	LRB	11/06/17 16:00				U	mg/L		-0.011	0.011			
WG435205LFB	LFB	11/06/17 16:03	II171025-2	.5		.5181	mg/L	104	85	115			
L40718-04LFM	LFM	11/06/17 16:26	II171025-2	.5	U	.5113	mg/L	102	70	130			
L40718-04LFMD	LFMD	11/06/17 16:36	II171025-2	.5	U	.5071	mg/L	101	70	130	1	20	

Mercury, total M245.1 CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG435343													
WG435343ICV	ICV	11/07/17 9:42	HG171030-2	.005005		.00508	mg/L	101	95	105			
WG435343ICB	ICB	11/07/17 9:43				U	mg/L		-0.0002	0.0002			
WG435343LRB	LRB	11/07/17 9:45				U	mg/L		-0.00044	0.00044			
WG435343LFB	LFB	11/07/17 9:46	HG171031-3	.002002		.00193	mg/L	96	85	115			
L40709-01LFM	LFM	11/07/17 9:51	HG171031-3	.002002	U	.00196	mg/L	98	85	115			
L40709-01LFMD	LFMD	11/07/17 9:52	HG171031-3	.002002	U	.00194	mg/L	97	85	115	1	20	

Molybdenum, total recoverable M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG435023													
WG435023ICV	ICV	11/01/17 12:43	MS171020-3	.02006		.01884	mg/L	94	90	110			
WG435023ICB	ICB	11/01/17 12:46				U	mg/L		-0.0015	0.0015			
WG434930LRB	LRB	11/01/17 12:49				U	mg/L		-0.0011	0.0011			
WG434930LFB	LFB	11/01/17 12:52	MS171009-2	.0501		.04732	mg/L	94	85	115			
L40609-02LFM	LFM	11/01/17 13:07	MS171009-2	.0501	.017	.0652	mg/L	96	70	130			
L40609-02LFMD	LFMD	11/01/17 13:10	MS171009-2	.0501	.017	.0649	mg/L	96	70	130	0	20	

Nickel, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG435397													
WG435397ICV	ICV	11/06/17 15:38	II171020-1	2.004		1.949	mg/L	97	95	105			
WG435397ICB	ICB	11/06/17 15:44				U	mg/L		-0.024	0.024			
WG435205LRB	LRB	11/06/17 16:00				U	mg/L		-0.0176	0.0176			
WG435205LFB	LFB	11/06/17 16:03	II171025-2	.4995		.5131	mg/L	103	85	115			
L40718-04LFM	LFM	11/06/17 16:26	II171025-2	.4995	U	.516	mg/L	103	70	130			
L40718-04LFMD	LFMD	11/06/17 16:36	II171025-2	.4995	U	.5059	mg/L	101	70	130	2	20	

Nitrite/Nitrate as N M353.2 - H2SO4 preserved

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG435195													
WG435195ICV	ICV	11/02/17 21:24	WI170914-11	2.416		2.43	mg/L	101	90	110			
WG435195ICB	ICB	11/02/17 21:25				U	mg/L		-0.02	0.02			
WG435198													
WG435198LFB1	LFB	11/02/17 23:05	WI170705-5	2		2.043	mg/L	102	90	110			
L40609-01AS	AS	11/02/17 23:08	WI170705-5	2	.2	2.359	mg/L	108	90	110			
L40609-02DUP	DUP	11/02/17 23:10			97	.969	mg/L				0	20	
WG435198LFB2	LFB	11/02/17 23:45	WI170705-5	2		1.974	mg/L	99	90	110			

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L40609**

Nitrogen, ammonia M350.1 Auto Salicylate w/gas diffusion

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG435570													
WG435570ICV	ICV	11/08/17 12:14	WI171010-1	11.988		11.711	mg/L	98	90	110			
WG435570ICB	ICB	11/08/17 12:15				U	mg/L		-0.05	0.05			
WG435570LFB	LFB	11/08/17 12:17	WI170420-10	10		9.649	mg/L	96	90	110			
L40609-01AS	AS	11/08/17 12:19	WI170420-10	10	U	9.88	mg/L	99	90	110			
L40609-02DUP	DUP	11/08/17 12:22			U	U	mg/L				0	20	RA

Nitrogen, total Kjeldahl M351.2 - TKN by Block Digester

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG435197													
WG435197ICV	ICV	11/02/17 22:46	WI171006-5	4		4.23	mg/L	106	90	110			
WG435197ICB	ICB	11/02/17 22:47				U	mg/L		-0.1	0.1			
WG435001LRB1	LRB	11/02/17 22:48				U	mg/L		-0.1	0.1			
WG435001LFB1	LFB	11/02/17 22:50	WI171006-7	2.5		2.55	mg/L	102	90	110			
L35736-37LFM	LFM	11/02/17 22:52	WI171006-7	2.5	U	2.51	mg/L	100	90	110			
L35737-37DUP	DUP	11/02/17 22:54			.5	.8	mg/L				46	20	RA
L40609-03LFM	LFM	11/02/17 23:08	WI171006-7	2.5	1.4	2.91	mg/L	60	90	110			M2
L40636-01DUP	DUP	11/02/17 23:10			U	U	mg/L				0	20	RA
WG435001LRB2	LRB	11/02/17 23:22				U	mg/L		-0.1	0.1			
WG435001LFB2	LFB	11/02/17 23:23	WI171006-7	2.5		2.65	mg/L	106	90	110			

Potassium, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG435397													
WG435397ICV	ICV	11/06/17 15:38	II171020-1	20		20.05	mg/L	100	95	105			
WG435397ICB	ICB	11/06/17 15:44				U	mg/L		-0.6	0.6			
WG435205LRB	LRB	11/06/17 16:00				U	mg/L		-0.44	0.44			
WG435205LFB	LFB	11/06/17 16:03	II171025-2	99.97371		100.3	mg/L	100	85	115			
L40718-04LFM	LFM	11/06/17 16:26	II171025-2	99.97371	U	99.54	mg/L	100	70	130			
L40718-04LFMD	LFMD	11/06/17 16:36	II171025-2	99.97371	U	98.81	mg/L	99	70	130	1	20	

Residue, Filterable (TDS) @180C SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG433953													
WG433953PBW	PBW	10/19/17 11:10				16	mg/L		-20	20			
WG433953LCSW	LCSW	10/19/17 11:11	PCN54021	260		264	mg/L	102	80	120			
L40632-02DUP	DUP	10/19/17 11:25			88	78	mg/L				12	10	RA
WG433956													
WG433956PBW	PBW	10/19/17 11:50				U	mg/L		-20	20			
WG433956LCSW	LCSW	10/19/17 11:51	PCN54021	260		266	mg/L	102	80	120			
L40623-01DUP	DUP	10/19/17 12:16			85400	87600	mg/L				3	10	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L40609**

Residue, Non-Filterable (TSS) @105C SM2540D

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG433954													
WG433954PBW	PBW	10/19/17 13:10				U	mg/L		-15	15			
WG433954LCSW	LCSW	10/19/17 13:11	PCN54021	160		157	mg/L	98	80	120			
L40598-07DUP	DUP	10/19/17 13:25			5	U	mg/L				200	10	RA
WG434068													
WG434068PBW	PBW	10/20/17 10:20				U	mg/L		-15	15			
WG434068LCSW	LCSW	10/20/17 10:21	PCN54021	160		160	mg/L	100	80	120			

Selenium, total recoverable M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG435023													
WG435023ICV	ICV	11/01/17 12:43	MS171020-3	.05		.05259	mg/L	105	90	110			
WG435023ICB	ICB	11/01/17 12:46				U	mg/L		-0.0003	0.0003			
WG434930LRB	LRB	11/01/17 12:49				U	mg/L		-0.00022	0.00022			
WG434930LFB	LFB	11/01/17 12:52	MS171009-2	.05005		.0491	mg/L	98	85	115			
L40609-02LFM	LFM	11/01/17 13:07	MS171009-2	.05005	.006	.05968	mg/L	107	70	130			
L40609-02LFMD	LFMD	11/01/17 13:10	MS171009-2	.05005	.006	.05938	mg/L	107	70	130	1	20	

Silica, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG435397													
WG435397ICV	ICV	11/06/17 15:38	II171020-1	42.8		41.19	mg/L	96	95	105			
WG435397ICB	ICB	11/06/17 15:44				U	mg/L		-0.6	0.6			
WG435205LRB	LRB	11/06/17 16:00				U	mg/L		-0.44	0.44			
WG435205LFB	LFB	11/06/17 16:03	II171025-2	21.415		22.28	mg/L	104	85	115			
L40718-04LFM	LFM	11/06/17 16:26	II171025-2	21.415	U	22.07	mg/L	103	70	130			
L40718-04LFMD	LFMD	11/06/17 16:36	II171025-2	21.415	U	21.9	mg/L	102	70	130	1	20	

Silver, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG435703													
WG435703ICV	ICV	11/09/17 18:17	MS171020-3	.02004		.02103	mg/L	105	90	110			
WG435703ICB	ICB	11/09/17 18:19				U	mg/L		-0.00015	0.00015			
WG435703LFB	LFB	11/09/17 18:21	MS171009-2	.01001		.01003	mg/L	100	85	115			
L40609-03AS	AS	11/09/17 18:29	MS171009-2	.01001	U	.009866	mg/L	99	70	130			
L40609-03ASD	ASD	11/09/17 18:31	MS171009-2	.01001	U	.009273	mg/L	93	70	130	6	20	

Silver, total recoverable M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG435023													
WG435023ICV	ICV	11/01/17 12:43	MS171020-3	.02004		.02011	mg/L	100	90	110			
WG435023ICB	ICB	11/01/17 12:46				U	mg/L		-0.00015	0.00015			
WG434930LRB	LRB	11/01/17 12:49				U	mg/L		-0.00011	0.00011			
WG434930LFB	LFB	11/01/17 12:52	MS171009-2	.01001		.009428	mg/L	94	85	115			
L40609-02LFM	LFM	11/01/17 13:07	MS171009-2	.01001	U	.00889	mg/L	89	70	130			
L40609-02LFMD	LFMD	11/01/17 13:10	MS171009-2	.01001	U	.00891	mg/L	89	70	130	0	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L40609**

Sodium, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG435397													
WG435397ICV	ICV	11/06/17 15:38	II171020-1	100		99.54	mg/L	100	95	105			
WG435397ICB	ICB	11/06/17 15:44				U	mg/L		-0.6	0.6			
WG435205LRB	LRB	11/06/17 16:00				U	mg/L		-0.44	0.44			
WG435205LFB	LFB	11/06/17 16:03	II171025-2	100.0023		100.3	mg/L	100	85	115			
L40718-04LFM	LFM	11/06/17 16:26	II171025-2	100.0023	U	99.61	mg/L	100	70	130			
L40718-04LFMD	LFMD	11/06/17 16:36	II171025-2	100.0023	U	99	mg/L	99	70	130	1	20	

Sulfate M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG430666													
WG430666ICV	ICV	09/06/17 17:19	WI170906-9	50		49.5	mg/L	99	90	110			
WG430666ICB	ICB	09/06/17 17:36				U	mg/L		-0.5	0.5			
WG435473													
WG435473LFB	LFB	11/07/17 21:01	WI170906-10	30		31.4	mg/L	105	90	110			
L40609-02AS	AS	11/07/17 23:24	WI170906-10	1500	2420	4050	mg/L	109	90	110			
L40609-01DUP	DUP	11/17/17 1:59			15.7	15.7	mg/L				0	20	

Sulfide as S SM4500S2-D

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG433857													
WG433857ICV	ICV	10/18/17 12:15	WC171018-3	.32534		.328	mg/L	101	90	110			
WG433857ICB	ICB	10/18/17 12:20				U	mg/L		-0.06	0.06			
WG433858													
WG433858ICV	ICV	10/18/17 12:15	WC171018-3	.32534		.324	mg/L	100	90	110			
WG433858ICB	ICB	10/18/17 12:28				U	mg/L		-0.06	0.06			
WG433858LFB	LFB	10/18/17 12:42	WC171018-6	.24356		.255	mg/L	105	80	120			
L40609-03AS	AS	10/18/17 14:18	WC171018-6	.24356	U	.193	mg/L	79	75	125			
L40609-03DUP	DUP	10/18/17 14:32			U	U	mg/L				0	20	RA

Thallium, total recoverable M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG435023													
WG435023ICV	ICV	11/01/17 12:43	MS171020-3	.05		.05369	mg/L	107	90	110			
WG435023ICB	ICB	11/01/17 12:46				U	mg/L		-0.0003	0.0003			
WG434930LRB	LRB	11/01/17 12:49				U	mg/L		-0.00022	0.00022			
WG434930LFB	LFB	11/01/17 12:52	MS171009-2	.0501		.05059	mg/L	101	85	115			
L40609-02LFM	LFM	11/01/17 13:07	MS171009-2	.0501	.0064	.0547	mg/L	96	70	130			
L40609-02LFMD	LFMD	11/01/17 13:10	MS171009-2	.0501	.0064	.05464	mg/L	96	70	130	0	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L40609

Tin, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG435397													
WG435397ICV	ICV	11/06/17 15:38	II171020-1	2		1.989	mg/L	99	95	105			
WG435397ICB	ICB	11/06/17 15:44				U	mg/L		-0.12	0.12			
WG435205LRB	LRB	11/06/17 16:00				U	mg/L		-0.088	0.088			
WG435205LFB	LFB	11/06/17 16:03	II171025-2	.989		1.009	mg/L	102	85	115			
L40718-04LFM	LFM	11/06/17 16:26	II171025-2	.989	U	.986	mg/L	100	70	130			
L40718-04LFMD	LFMD	11/06/17 16:36	II171025-2	.989	U	.994	mg/L	101	70	130	1	20	

Uranium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG435703													
WG435703ICV	ICV	11/09/17 18:17	MS171020-3	.05		.05184	mg/L	104	90	110			
WG435703ICB	ICB	11/09/17 18:19				U	mg/L		-0.0003	0.0003			
WG435703LFB	LFB	11/09/17 18:21	MS171009-2	.05		.05119	mg/L	102	85	115			
L40609-03AS	AS	11/09/17 18:29	MS171009-2	.05	.091	.14378	mg/L	106	70	130			
L40609-03ASD	ASD	11/09/17 18:31	MS171009-2	.05	.091	.14411	mg/L	106	70	130	0	20	

Uranium, total recoverable M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG435023													
WG435023ICV	ICV	11/01/17 12:43	MS171020-3	.05		.0514	mg/L	103	90	110			
WG435023ICB	ICB	11/01/17 12:46				U	mg/L		-0.0003	0.0003			
WG434930LRB	LRB	11/01/17 12:49				U	mg/L		-0.00022	0.00022			
WG434930LFB	LFB	11/01/17 12:52	MS171009-2	.05		.04999	mg/L	100	85	115			
L40609-02LFM	LFM	11/01/17 13:07	MS171009-2	.05	.1527	.2042	mg/L	103	70	130			
L40609-02LFMD	LFMD	11/01/17 13:10	MS171009-2	.05	.1527	.2068	mg/L	108	70	130	1	20	

Vanadium, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG435397													
WG435397ICV	ICV	11/06/17 15:38	II171020-1	2		2.022	mg/L	101	95	105			
WG435397ICB	ICB	11/06/17 15:44				U	mg/L		-0.015	0.015			
WG435205LRB	LRB	11/06/17 16:00				U	mg/L		-0.011	0.011			
WG435205LFB	LFB	11/06/17 16:03	II171025-2	.4985		5137	mg/L	103	85	115			
L40718-04LFM	LFM	11/06/17 16:26	II171025-2	.4985	U	5061	mg/L	102	70	130			
L40718-04LFMD	LFMD	11/06/17 16:36	II171025-2	.4985	U	.4997	mg/L	100	70	130	1	20	

Zinc, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG435272													
WG435272ICV	ICV	11/03/17 19:00	II171020-1	2		2.004	mg/L	100	95	105			
WG435272ICB	ICB	11/03/17 19:06				U	mg/L		-0.03	0.03			
WG435272LFB	LFB	11/03/17 19:18	II171025-2	.4942		.514	mg/L	104	85	115			
L40682-02AS	AS	11/03/17 19:36	II171025-2	.4942	U	.546	mg/L	110	85	115			
L40682-02ASD	ASD	11/03/17 19:40	II171025-2	.4942	U	.549	mg/L	111	85	115	1	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L40609**

Zinc, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG435397													
WG435397ICV	ICV	11/06/17 15:38	II171020-1	2		1.977	mg/L	99	95	105			
WG435397ICB	ICB	11/06/17 15:44				U	mg/L		-0.03	0.03			
WG435205LRB	LRB	11/06/17 16:00				U	mg/L		-0.022	0.022			
WG435205LFB	LFB	11/06/17 16:03	II171025-2	.4942		.523	mg/L	106	85	115			
L40718-04LFM	LFM	11/06/17 16:26	II171025-2	.4942	U	.52	mg/L	105	70	130			
L40718-04LFMD	LFMD	11/06/17 16:36	II171025-2	.4942	U	.517	mg/L	105	70	130	1	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L40609**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L40609-01	WG435023	Antimony, total recoverable	M200.8 ICP-MS	LA	Recovery for target analyte in the control sample (LCS or LFB) exceeded the acceptance criteria. Target analyte was not detected in the sample [$<$ MDL].
	WG433871	Biochemical Oxygen Demand (5 day)	SM5210B	K1	The sample dilutions set-up for the BOD/CBOD analysis did not meet the oxygen depletion criteria of at least 2 mg/L. Any reported result is an estimated value.
			SM5210B	KA	The seed depletion was outside the method acceptance limits, the DO-axis intercept is $>$ 0.2 mg/L. The reported result is an estimated value.
	WG435211	Chemical Oxygen Demand	M410.4	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M410.4	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation ($<$ 10x MDL).
	WG435473	Chloride	M300.0 - Ion Chromatography	H2	Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
			M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation ($<$ 10x MDL).
		Fluoride	M300.0 - Ion Chromatography	H2	Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
			M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation ($<$ 10x MDL).
	WG435570	Nitrogen, ammonia	M350.1 Auto Salicylate w/gas diffusion	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation ($<$ 10x MDL).
	WG435197	Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation ($<$ 10x MDL).
	WG433953	Residue, Filterable (TDS) @180C	SM2540C	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation ($<$ 10x MDL).
	WG433954	Residue, Non-Filterable (TSS) @105C	SM2540D	DJ	Sample dilution required due to insufficient sample.
			SM2540D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation ($<$ 10x MDL).
	WG435397	Silica, total recoverable	M200.7 ICP	ZS	Digestion procedures have the potential to trigger silica polymerization and precipitation, leading to low biased results. Silica chemistry is complex and polymerization kinetics are unpredictable. Dissolved and/or acid soluble silica analyses may provide more accurate measurements.
	WG435473	Sulfate	M300.0 - Ion Chromatography	H2	Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
	WG433858	Sulfide as S	SM4500S2-D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation ($<$ 10x MDL).

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L40609**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L40609-02	WG435023	Antimony, total recoverable	M200.8 ICP-MS	LA	Recovery for target analyte in the control sample (LCS or LFB) exceeded the acceptance criteria. Target analyte was not detected in the sample [$<$ MDL].
	WG433871	Biochemical Oxygen Demand (5 day)	SM5210B	K1	The sample dilutions set-up for the BOD/CBOD analysis did not meet the oxygen depletion criteria of at least 2 mg/L. Any reported result is an estimated value.
			SM5210B	KA	The seed depletion was outside the method acceptance limits, the DO-axis intercept is $>$ 0.2 mg/L. The reported result is an estimated value.
	WG435211	Chemical Oxygen Demand	M410.4	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M410.4	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation ($<$ 10x MDL).
	WG435473	Chloride	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation ($<$ 10x MDL).
		Fluoride	M300.0 - Ion Chromatography	DC	Sample required dilution. Non-target analyte exceeded calibration range.
			M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation ($<$ 10x MDL).
	WG435570	Nitrogen, ammonia	M350.1 Auto Salicylate w/gas diffusion	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation ($<$ 10x MDL).
	WG435197	Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation ($<$ 10x MDL).
	WG433953	Residue, Filterable (TDS) @180C	SM2540C	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation ($<$ 10x MDL).
	WG433954	Residue, Non-Filterable (TSS) @105C	SM2540D	DJ	Sample dilution required due to insufficient sample.
			SM2540D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation ($<$ 10x MDL).
	WG435397	Silica, total recoverable	M200.7 ICP	ZS	Digestion procedures have the potential to trigger silica polymerization and precipitation, leading to low biased results. Silica chemistry is complex and polymerization kinetics are unpredictable. Dissolved and/or acid soluble silica analyses may provide more accurate measurements.
	WG433858	Sulfide as S	SM4500S2-D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation ($<$ 10x MDL).

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L40609**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L40609-03	WG435172	Antimony, total recoverable	M200.8 ICP-MS	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M200.8 ICP-MS	N1	See Case Narrative.
	WG433871	Biochemical Oxygen Demand (5 day)	SM5210B	K1	The sample dilutions set-up for the BOD/CBOD analysis did not meet the oxygen depletion criteria of at least 2 mg/L. Any reported result is an estimated value.
			SM5210B	KA	The seed depletion was outside the method acceptance limits, the DO-axis intercept is > 0.2 mg/L. The reported result is an estimated value.
	WG435211	Chemical Oxygen Demand	M410.4	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M410.4	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG435473	Chloride	M300.0 - Ion Chromatography	H2	Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
			M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			M300.0 - Ion Chromatography	DC	Sample required dilution. Non-target analyte exceeded calibration range.
			M300.0 - Ion Chromatography	H2	Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
	WG435570	Nitrogen, ammonia	M350.1 Auto Salicylate w/gas diffusion	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			M351.2 - TKN by Block Digester	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG435197	Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			M351.2 - TKN by Block Digester	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG433956	Residue, Filterable (TDS) @180C	SM2540C	RO	The duplicate originally assigned to this sample was not used for precision assessment because residue density exceeded the method limits. Another duplicate in the batch was used to assess precision. Method required duplicate frequency was not met.
	WG434068	Residue, Non-Filterable (TSS) @105C	SM2540D	DJ	Sample dilution required due to insufficient sample.
	WG435397	Silica, total recoverable	M200.7 ICP	ZS	Digestion procedures have the potential to trigger silica polymerization and precipitation, leading to low biased results. Silica chemistry is complex and polymerization kinetics are unpredictable. Dissolved and/or acid soluble silica analyses may provide more accurate measurements.
	WG435473	Sulfate	M300.0 - Ion Chromatography	H2	Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
	WG433858	Sulfide as S	SM4500S2-D	QD	Reported value is the background-corrected concentration, as described by the method.
			SM4500S2-D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).

Energy Fuels Resources (USA) Inc.
 Canyon Mine 4th Quarter 2017

ACZ Project ID: L40609
 Date Received: 10/18/2017 09:11
 Received By: mjj
 Date Printed: 10/18/2017

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody form or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?		X	
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody form complete and accurate?	X		
7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples?	X		

A change was made in the Sample ID Lines 1-2. Analysis Requested Lines 1-5. section prior to ACZ custody.

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits? ¹	X		
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?	X		

NA indicates Not Applicable

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp (°C)	Temp Criteria (°C)	Rad (µR/Hr)	Custody Seal Intact?
NA27123	0.9	<=6.0	13	Yes
NA27124	1	<=6.0	14	Yes
NA27125	1.8	<=6.0	16	Yes

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

Energy Fuels Resources (USA) Inc.
Canyon Mine 4th Quarter 2017

ACZ Project ID: L40609
Date Received: 10/18/2017 09:11
Received By: mjj
Date Printed: 10/18/2017

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

¹ The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na₂S₂O₃ preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).

L40609



CHAIN OF CUSTODY

Samples Shipped to: ACZ Laboratory **Contact:** Kathy Weinel
2773 Downhill Drive Ph: 303.389.4134
Steamboat, CO 80487 kweinel@energyfuels.com

Chain of Custody/Sampling Analysis Request

Project	Samplers Name		Samplers Signature
Canyon Mine 4th Quarter 2017	Abel Mendoza		
Sample ID	Date Collected	Time Collected	Laboratory Analysis Requested
Upper Water Ring	10/17/2017	-	Quote #: Canyon-2017-
Lower Water Ring	10/17/2017	-	Quote #: Canyon-2017
Deep Water Well	10/17/2017	0715	Quote #: Canyon-2017 2016
Pond	10/17/2017	0745	Quote #: Canyon-2017 2016
Discharge	10/17/2017	0650	Quote #: Canyon-2017 2016
* See attached Analytical Quote for details.			
Comments: Please send report to Kathy Weinel at kweinel@energyfuels.com			

Relinquished By:(Signature) 	Date/Time 10/17/2017 11:00 am	Received By:(Signature) 	Date/Time 10/18/2017
Relinquished By:(Signature)	Date/Time	Received By:(Signature)	Date/Time

L40609 Chain of Custody

the 1990s, the number of people in the world who are under 15 years of age is expected to increase from 1.1 billion to 1.5 billion.

There are a number of reasons why the world's population is growing so rapidly. One of the main reasons is that the number of children born to each woman has increased. This is due to a number of factors, including the fact that women are now having children at a younger age, and that there is a higher birth rate in developing countries.

Another reason why the world's population is growing so rapidly is that the number of people who are surviving to old age has increased. This is due to a number of factors, including the fact that people are now living longer, and that there is a higher death rate in developing countries.

There are a number of other reasons why the world's population is growing so rapidly. One of the main reasons is that the number of people who are migrating to other parts of the world has increased. This is due to a number of factors, including the fact that people are now moving more easily between countries, and that there is a higher death rate in developing countries.

Another reason why the world's population is growing so rapidly is that the number of people who are surviving to old age has increased. This is due to a number of factors, including the fact that people are now living longer, and that there is a higher death rate in developing countries.

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October 01, 2018

Report to:

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

Bill to:

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

Project ID:

ACZ Project ID: L46928

Kathy Weinel:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on September 14, 2018. This project has been assigned to ACZ's project number, L46928. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L46928. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after October 31, 2018. If the samples are determined to be hazardous, additional charges apply for disposal (typically \$11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.



Max Janicek has reviewed and approved this report.



Energy Fuels Resources (USA) Inc.

Project ID:

Sample ID: CM WELL

ACZ Sample ID: **L46928-01**

Date Sampled: 09/11/18 13:40

Date Received: 09/14/18

Sample Matrix: Groundwater

Field Data

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Conductivity (Field)	Field Measurement	1	531			umhos/cm			09/11/18 13:40	mg
pH (Field)	Field Measurement	1	7.4			units			09/11/18 13:40	mg
Temperature (Field)	Field Measurement	1	28.3			C			09/11/18 13:40	mg

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	1		U		mg/L	0.03	0.2	09/26/18 16:58	aeH
Antimony, dissolved	M200.8 ICP-MS	1		U		mg/L	0.0004	0.002	09/26/18 21:20	bsu
Arsenic, dissolved	M200.8 ICP-MS	1		U		mg/L	0.0002	0.001	09/26/18 21:20	bsu
Barium, dissolved	M200.7 ICP	1	0.083			mg/L	0.003	0.02	09/26/18 16:58	aeH
Beryllium, dissolved	M200.8 ICP-MS	1		U		mg/L	0.00005	0.0003	09/27/18 13:24	bsu
Bismuth, dissolved	M200.7 ICP	1		U	*	mg/L	0.04	0.2	09/26/18 16:58	aeH
Boron, dissolved	M200.7 ICP	1	0.05			mg/L	0.01	0.05	09/27/18 12:23	dcm
Cadmium, dissolved	M200.8 ICP-MS	1		U		mg/L	0.0001	0.0005	09/26/18 21:20	bsu
Calcium, dissolved	M200.7 ICP	1	39.7			mg/L	0.1	0.5	09/26/18 16:58	aeH
Chromium, dissolved	M200.7 ICP	1		U		mg/L	0.01	0.05	09/26/18 16:58	aeH
Cobalt, dissolved	M200.8 ICP-MS	1	0.00022	B		mg/L	0.00005	0.0003	09/26/18 21:20	bsu
Copper, dissolved	M200.7 ICP	1		U		mg/L	0.01	0.05	09/26/18 16:58	aeH
Gallium, dissolved	M200.7 ICP	1		U	*	mg/L	0.1	0.5	09/26/18 16:58	aeH
Iron, dissolved	M200.7 ICP	1		U		mg/L	0.02	0.05	09/26/18 16:58	aeH
Lead, dissolved	M200.8 ICP-MS	1	0.0023			mg/L	0.0001	0.0005	09/26/18 21:20	bsu
Lithium, dissolved	M200.7 ICP	1	0.009	B		mg/L	0.008	0.04	09/26/18 16:58	aeH
Magnesium, dissolved	M200.7 ICP	1	28.2			mg/L	0.2	1	09/26/18 16:58	aeH
Manganese, dissolved	M200.7 ICP	1	0.014	B		mg/L	0.005	0.03	09/26/18 16:58	aeH
Mercury, dissolved	M245.1 CVAA	1		U		mg/L	0.0002	0.001	09/26/18 16:31	che
Molybdenum, dissolved	M200.7 ICP	1		U		mg/L	0.02	0.1	09/26/18 16:58	aeH
Nickel, dissolved	M200.7 ICP	1	0.011	B		mg/L	0.008	0.04	09/26/18 16:58	aeH
Phosphorus, dissolved	M200.7 - ICP	1		U	*	mg/L	0.1	0.5	09/26/18 16:58	aeH
Potassium, dissolved	M200.7 ICP	1	2.1			mg/L	0.2	1	09/26/18 16:58	aeH
Selenium, dissolved	M200.8 ICP-MS	1	0.0048			mg/L	0.0001	0.0003	09/26/18 21:20	bsu
Silica, dissolved	M200.7 ICP	1	8.8			mg/L	0.2	1	09/26/18 16:58	aeH
Sodium, dissolved	M200.7 ICP	1	5.3			mg/L	0.2	1	09/26/18 16:58	aeH
Strontium, dissolved	M200.7 ICP	1	0.256			mg/L	0.005	0.03	09/26/18 16:58	aeH
Sulfur, dissolved	M200.7 ICP	1	5.9		*	mg/L	0.3	1	09/26/18 16:58	aeH
Thallium, dissolved	M200.8 ICP-MS	1		U		mg/L	0.0001	0.0005	09/26/18 21:20	bsu
Thorium, dissolved	M200.8 ICP-MS	1		U	*	mg/L	0.001	0.005	09/27/18 13:24	bsu
Tin, dissolved	M200.7 ICP	1		U		mg/L	0.04	0.2	09/26/18 16:58	aeH
Titanium, dissolved	M200.7 ICP	1		U	*	mg/L	0.005	0.03	09/27/18 12:23	dcm
Uranium, dissolved	M200.8 ICP-MS	1	0.0128			mg/L	0.0001	0.0005	09/26/18 21:20	bsu
Vanadium, dissolved	M200.7 ICP	1		U		mg/L	0.005	0.03	09/26/18 16:58	aeH
Zinc, dissolved	M200.7 ICP	1		U		mg/L	0.01	0.05	09/26/18 16:58	aeH

Energy Fuels Resources (USA) Inc.

Project ID:

Sample ID: CM WELL

ACZ Sample ID: **L46928-01**

Date Sampled: 09/11/18 13:40

Date Received: 09/14/18

Sample Matrix: Groundwater

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Chloride	SM4500Cl-E	1	9.4			mg/L	0.5	2	09/20/18 10:45	rbt
Conductivity @25C	SM2510B	1	448			umhos/cm	1	10	09/19/18 20:34	enb
Fluoride	SM4500F-C	1	0.34			mg/L	0.05	0.3	09/21/18 17:07	enb
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2		0.13	H		mg/L	0.02	0.1	10/01/18 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.13	H	*	mg/L	0.02	0.1	09/14/18 21:45	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1		UH	*	mg/L	0.01	0.05	09/14/18 21:45	pjb
Sulfate	D516-02/-07 - Turbidimetric	1	23.3		*	mg/L	1	5	09/19/18 13:02	rbt

Arizona license number: **AZ0102**



Report Header Explanations

<i>Batch</i>	A distinct set of samples analyzed at a specific time
<i>Found</i>	Value of the QC Type of interest
<i>Limit</i>	Upper limit for RPD, in %.
<i>Lower</i>	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
<i>MDL</i>	Method Detection Limit. Same as Minimum Reporting Limit unless omitted or equal to the PQL (see comment #5). Allows for instrument and annual fluctuations.
<i>PCN/SCN</i>	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
<i>PQL</i>	Practical Quantitation Limit. Synonymous with the EPA term "minimum level".
<i>QC</i>	True Value of the Control Sample or the amount added to the Spike
<i>Rec</i>	Recovered amount of the true value or spike added, in % (except for LCSS, mg/Kg)
<i>RPD</i>	Relative Percent Difference, calculation used for Duplicate QC Types
<i>Upper</i>	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
<i>Sample</i>	Value of the Sample of interest

QC Sample Types

<i>AS</i>	Analytical Spike (Post Digestion)	<i>LCSWD</i>	Laboratory Control Sample - Water Duplicate
<i>ASD</i>	Analytical Spike (Post Digestion) Duplicate	<i>LFB</i>	Laboratory Fortified Blank
<i>CCB</i>	Continuing Calibration Blank	<i>LFM</i>	Laboratory Fortified Matrix
<i>CCV</i>	Continuing Calibration Verification standard	<i>LFMD</i>	Laboratory Fortified Matrix Duplicate
<i>DUP</i>	Sample Duplicate	<i>LRB</i>	Laboratory Reagent Blank
<i>ICB</i>	Initial Calibration Blank	<i>MS</i>	Matrix Spike
<i>ICV</i>	Initial Calibration Verification standard	<i>MSD</i>	Matrix Spike Duplicate
<i>ICSAB</i>	Inter-element Correction Standard - A plus B solutions	<i>PBS</i>	Prep Blank - Soil
<i>LCSS</i>	Laboratory Control Sample - Soil	<i>PBW</i>	Prep Blank - Water
<i>LCSSD</i>	Laboratory Control Sample - Soil Duplicate	<i>PQV</i>	Practical Quantitation Verification standard
<i>LCSW</i>	Laboratory Control Sample - Water	<i>SDL</i>	Serial Dilution

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method or calibration procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Spikes/Fortified Matrix	Determines sample matrix interferences, if any.
Standard	Verifies the validity of the calibration.

ACZ Qualifiers (Qual)

B	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
L	Target analyte response was below the laboratory defined negative threshold.
U	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

Method References

- (1) EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
- (2) EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
- (3) EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.
- (4) EPA SW-846. Test Methods for Evaluating Solid Waste.
- (5) Standard Methods for the Examination of Water and Wastewater.

Comments

- (1) QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
- (2) Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
- (3) Animal matrices for Inorganic analyses are reported on an "as received" basis.
- (4) An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.
- (5) If the MDL equals the PQL or the MDL column is omitted, the PQL is the reporting limit.

For a complete list of ACZ's Extended Qualifiers, please click:

<http://www.acz.com/public/extquallist.pdf>

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L46928**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Aluminum, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG457184													
WG457184ICV	ICV	09/26/18 15:36	II180914-1	2		1.982	mg/L	99	95	105			
WG457184ICB	ICB	09/26/18 15:42				U	mg/L		-0.09	0.09			
WG457184LFB	LFB	09/26/18 15:54	II180920-2	1.0019		.962	mg/L	96	85	115			
L46928-01AS	AS	09/26/18 17:07	II180920-2	1.0019	U	.969	mg/L	97	85	115			
L46928-01ASD	ASD	09/26/18 17:10	II180920-2	1.0019	U	.966	mg/L	96	85	115	0	20	

Antimony, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG457179													
WG457179ICV	ICV	09/26/18 20:58	MS180914-2	.02		.0205	mg/L	103	90	110			
WG457179ICB	ICB	09/26/18 21:00				U	mg/L		-0.00088	0.00088			
WG457179LFB	LFB	09/26/18 21:01	MS180830-2	.01		.01012	mg/L	101	85	115			
L46896-02AS	AS	09/26/18 21:13	MS180830-2	.01	.0006	.00894	mg/L	83	70	130			
L46896-02ASD	ASD	09/26/18 21:14	MS180830-2	.01	.0006	.00897	mg/L	84	70	130	0	20	
L46929-01AS	AS	09/26/18 21:29	MS180830-2	.01	U	.00891	mg/L	89	70	130			
L46929-01ASD	ASD	09/26/18 21:31	MS180830-2	.01	U	.00935	mg/L	94	70	130	5	20	

Arsenic, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG457179													
WG457179ICV	ICV	09/26/18 20:58	MS180914-2	.05		.04836	mg/L	97	90	110			
WG457179ICB	ICB	09/26/18 21:00				U	mg/L		-0.00044	0.00044			
WG457179LFB	LFB	09/26/18 21:01	MS180830-2	.0501		.05166	mg/L	103	85	115			
L46896-02AS	AS	09/26/18 21:13	MS180830-2	.0501	0377	.08289	mg/L	90	70	130			
L46896-02ASD	ASD	09/26/18 21:14	MS180830-2	.0501	0377	.08229	mg/L	89	70	130	1	20	
L46929-01AS	AS	09/26/18 21:29	MS180830-2	.0501	.0087	.0589	mg/L	100	70	130			
L46929-01ASD	ASD	09/26/18 21:31	MS180830-2	.0501	.0087	.05921	mg/L	101	70	130	1	20	

Barium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG457184													
WG457184ICV	ICV	09/26/18 15:36	II180914-1	2		1.946	mg/L	97	95	105			
WG457184ICB	ICB	09/26/18 15:42				U	mg/L		-0.009	0.009			
WG457184LFB	LFB	09/26/18 15:54	II180920-2	.5025		.4755	mg/L	95	85	115			
L46928-01AS	AS	09/26/18 17:07	II180920-2	.5025	.083	.5561	mg/L	94	85	115			
L46928-01ASD	ASD	09/26/18 17:10	II180920-2	.5025	.083	.5536	mg/L	94	85	115	0	20	

Beryllium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG457299													
WG457299ICV	ICV	09/27/18 12:41	MS180914-2	.05		.047532	mg/L	95	90	110			
WG457299ICB	ICB	09/27/18 12:42				.000052	mg/L		-0.00011	0.00011			
WG457299LFB	LFB	09/27/18 12:44	MS180830-2	.05035		.046274	mg/L	92	85	115			
L46929-01AS	AS	09/27/18 12:50	MS180830-2	.05035	U	.046856	mg/L	93	70	130			
L46929-01ASD	ASD	09/27/18 12:51	MS180830-2	.05035	U	.047196	mg/L	94	70	130	1	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L46928

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Bismuth, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG457184													
WG457184ICV	ICV	09/26/18 15:36	II180914-1	2		1.956	mg/L	98	95	105			
WG457184ICB	ICB	09/26/18 15:42				U	mg/L		-0.12	0.12			
WG457184LFB	LFB	09/26/18 15:54	II180920-2	.9993		.973	mg/L	97	85	115			
L46928-01AS	AS	09/26/18 17:07	II180920-2	.9993	U	.982	mg/L	98	85	115			
L46928-01ASD	ASD	09/26/18 17:10	II180920-2	.9993	U	.958	mg/L	96	85	115	2	20	

Boron, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG457312													
WG457312ICV	ICV	09/27/18 11:47	II180824-2	2		2	mg/L	100	95	105			
WG457312ICB	ICB	09/27/18 11:54				.013	mg/L		-0.03	0.03			
WG457312LFB	LFB	09/27/18 12:07	II180926-3	.5005		.525	mg/L	105	85	115			
L46928-01AS	AS	09/27/18 12:27	II180926-3	.5005	.05	.565	mg/L	103	85	115			
L46928-01ASD	ASD	09/27/18 12:30	II180926-3	.5005	.05	.56	mg/L	102	85	115	1	20	
WG457340													
WG457340ICV	ICV	09/27/18 18:35	II180914-1	2		2.053	mg/L	103	95	105			
WG457340ICB	ICB	09/27/18 18:41				U	mg/L		-0.03	0.03			
WG457340LFB	LFB	09/27/18 18:54	II180926-3	.5005		.5	mg/L	100	85	115			
L46974-01AS	AS	09/27/18 19:04	II180926-3	.5005	.03	.55	mg/L	104	85	115			
L46974-01ASD	ASD	09/27/18 19:07	II180926-3	.5005	.03	.557	mg/L	105	85	115	1	20	

Cadmium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG457179													
WG457179ICV	ICV	09/26/18 20:58	MS180914-2	.05		.0492	mg/L	98	90	110			
WG457179ICB	ICB	09/26/18 21:00				U	mg/L		-0.00022	0.00022			
WG457179LFB	LFB	09/26/18 21:01	MS180830-2	.05005		.05052	mg/L	101	85	115			
L46896-02AS	AS	09/26/18 21:13	MS180830-2	.05005	U	.04511	mg/L	90	70	130			
L46896-02ASD	ASD	09/26/18 21:14	MS180830-2	.05005	U	.04529	mg/L	90	70	130	0	20	
L46929-01AS	AS	09/26/18 21:29	MS180830-2	.05005	U	.0469	mg/L	94	70	130			
L46929-01ASD	ASD	09/26/18 21:31	MS180830-2	.05005	U	.04851	mg/L	97	70	130	3	20	

Calcium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG457184													
WG457184ICV	ICV	09/26/18 15:36	II180914-1	100		97.54	mg/L	98	95	105			
WG457184ICB	ICB	09/26/18 15:42				U	mg/L		-0.3	0.3			
WG457184LFB	LFB	09/26/18 15:54	II180920-2	68.16145		64.13	mg/L	94	85	115			
L46928-01AS	AS	09/26/18 17:07	II180920-2	68.16145	39.7	102.5	mg/L	92	85	115			
L46928-01ASD	ASD	09/26/18 17:10	II180920-2	68.16145	39.7	101.9	mg/L	91	85	115	1	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L46928**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Chloride

SM4500Cl-E

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG456777													
WG456777ICB	ICB	09/20/18 9:32				U	mg/L		-1.5	1.5			
WG456777ICV	ICV	09/20/18 9:32	WI180530-1	54.89		56.64	mg/L	103	90	110			
WG456777LFB1	LFB	09/20/18 10:45	WI171229-5	30.03		32.3	mg/L	108	90	110			
L46928-01AS	AS	09/20/18 10:45	WI171229-5	30.03	9.4	39.53	mg/L	100	90	110			
L46928-02DUP	DUP	09/20/18 10:45			23	22.92	mg/L				0	20	
WG456777LFB2	LFB	09/20/18 10:57	WI171229-5	30.03		31.94	mg/L	106	90	110			

Chromium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG457184													
WG457184ICV	ICV	09/26/18 15:36	II180914-1	2		1.918	mg/L	96	95	105			
WG457184ICB	ICB	09/26/18 15:42				U	mg/L		-0.03	0.03			
WG457184LFB	LFB	09/26/18 15:54	II180920-2	.5		466	mg/L	93	85	115			
L46928-01AS	AS	09/26/18 17:07	II180920-2	.5	U	459	mg/L	92	85	115			
L46928-01ASD	ASD	09/26/18 17:10	II180920-2	.5	U	458	mg/L	92	85	115	0	20	

Cobalt, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG457179													
WG457179ICV	ICV	09/26/18 20:58	MS180914-2	.05		.052233	mg/L	104	90	110			
WG457179ICB	ICB	09/26/18 21:00				U	mg/L		-0.00011	0.00011			
WG457179LFB	LFB	09/26/18 21:01	MS180830-2	.05005		.05228	mg/L	104	85	115			
L46896-02AS	AS	09/26/18 21:13	MS180830-2	.05005	.00139	.048742	mg/L	95	70	130			
L46896-02ASD	ASD	09/26/18 21:14	MS180830-2	.05005	.00139	.048684	mg/L	94	70	130	0	20	
L46929-01AS	AS	09/26/18 21:29	MS180830-2	.05005	.00052	.049264	mg/L	97	70	130			
L46929-01ASD	ASD	09/26/18 21:31	MS180830-2	.05005	.00052	.05133	mg/L	102	70	130	4	20	

Conductivity @25C

SM2510B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG456720													
WG456720LCSW2	LCSW	09/19/18 15:53	PCN56415	1410		1430	umhos/cm	101	90	110			
WG456720LCSW5	LCSW	09/19/18 19:17	PCN56415	1410		1420	umhos/cm	101	90	110			
L46929-01DUP	DUP	09/19/18 20:59			946	946	umhos/cm				0	20	
WG456720LCSW8	LCSW	09/19/18 22:29	PCN56415	1410		1420	umhos/cm	101	90	110			
WG456720LCSW11	LCSW	09/20/18 1:29	PCN56415	1410		1410	umhos/cm	100	90	110			
WG456720LCSW14	LCSW	09/20/18 4:09	PCN56415	1410		1400	umhos/cm	99	90	110			

Copper, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG457184													
WG457184ICV	ICV	09/26/18 15:36	II180914-1	2		1.958	mg/L	98	95	105			
WG457184ICB	ICB	09/26/18 15:42				U	mg/L		-0.03	0.03			
WG457184LFB	LFB	09/26/18 15:54	II180920-2	.501		.467	mg/L	93	85	115			
L46928-01AS	AS	09/26/18 17:07	II180920-2	.501	U	.469	mg/L	94	85	115			
L46928-01ASD	ASD	09/26/18 17:10	II180920-2	.501	U	.47	mg/L	94	85	115	0	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L46928**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Fluoride													SM4500F-C	
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual	
WG456913														
WG456913ICV	ICV	09/21/18 14:00	WC180912-3	1.996		2.025	mg/L	101	90	110				
WG456913ICB	ICB	09/21/18 14:05				.069	mg/L		-0.15	0.15				
WG456928														
WG456928ICV	ICV	09/21/18 15:56	WC180912-3	1.996		2.101	mg/L	105	90	110				
WG456928ICB	ICB	09/21/18 16:03				U	mg/L		-0.15	0.15				
WG456928LFB1	LFB	09/21/18 16:10	WC180508-10	5.015		5.067	mg/L	101	90	110				
L46906-01AS	AS	09/21/18 16:20	WC180508-10	5.015	.38	5.137	mg/L	95	90	110				
L46906-01ASD	ASD	09/21/18 16:24	WC180508-10	5.015	.38	5.2	mg/L	96	90	110	1	20		
WG457042														
WG457042ICV	ICV	09/25/18 8:33	WC180924-7	1.996		1.967	mg/L	99	90	110				
WG457042ICB	ICB	09/25/18 8:38				U	mg/L		-0.15	0.15				
WG457042LFB1	LFB	09/25/18 8:49	WC180508-10	5.015		5.116	mg/L	102	90	110				
L46928-02AS	AS	09/25/18 8:56	WC180508-10	5.015	.35	5.332	mg/L	99	90	110				
L46928-02ASD	ASD	09/25/18 9:00	WC180508-10	5.015	.35	5.4	mg/L	101	90	110	1	20		
WG457042LFB2	LFB	09/25/18 11:00	WC180508-10	5.015		5.235	mg/L	104	90	110				

Gallium, dissolved													M200.7 ICP	
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual	
WG457184														
WG457184ICV	ICV	09/26/18 15:36	II180914-1	2		1.98	mg/L	99	95	105				
WG457184ICB	ICB	09/26/18 15:42				U	mg/L		-0.3	0.3				
WG457184LFB	LFB	09/26/18 15:54	II180920-2	1		.94	mg/L	94	85	115				
L46928-01AS	AS	09/26/18 17:07	II180920-2	1	U	.98	mg/L	98	85	115				
L46928-01ASD	ASD	09/26/18 17:10	II180920-2	1	U	.96	mg/L	96	85	115	2	20		

Iron, dissolved													M200.7 ICP	
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual	
WG457184														
WG457184ICV	ICV	09/26/18 15:36	II180914-1	2		1.923	mg/L	96	95	105				
WG457184ICB	ICB	09/26/18 15:42				U	mg/L		-0.06	0.06				
WG457184LFB	LFB	09/26/18 15:54	II180920-2	1.0018		.966	mg/L	96	85	115				
L46928-01AS	AS	09/26/18 17:07	II180920-2	1.0018	U	.96	mg/L	96	85	115				
L46928-01ASD	ASD	09/26/18 17:10	II180920-2	1.0018	U	.956	mg/L	95	85	115	0	20		

Lead, dissolved													M200.8 ICP-MS	
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual	
WG457179														
WG457179ICV	ICV	09/26/18 20:58	MS180914-2	.05		.04889	mg/L	98	90	110				
WG457179ICB	ICB	09/26/18 21:00				U	mg/L		-0.00022	0.00022				
WG457179LFB	LFB	09/26/18 21:01	MS180830-2	.0496		.04925	mg/L	99	85	115				
L46896-02AS	AS	09/26/18 21:13	MS180830-2	.0496	U	.04606	mg/L	93	70	130				
L46896-02ASD	ASD	09/26/18 21:14	MS180830-2	.0496	U	.04556	mg/L	92	70	130	1	20		
L46929-01AS	AS	09/26/18 21:29	MS180830-2	.0496	U	.04844	mg/L	98	70	130				
L46929-01ASD	ASD	09/26/18 21:31	MS180830-2	.0496	U	.05051	mg/L	102	70	130	4	20		

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L46928**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Lithium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG457184													
WG457184ICV	ICV	09/26/18 15:36	II180914-1	2		1.9825	mg/L	99	95	105			
WG457184ICB	ICB	09/26/18 15:42				U	mg/L		-0.024	0.024			
WG457184LFB	LFB	09/26/18 15:54	II180920-2	1.003		.9547	mg/L	95	85	115			
L46928-01AS	AS	09/26/18 17:07	II180920-2	1.003	.009	.9682	mg/L	96	85	115			
L46928-01ASD	ASD	09/26/18 17:10	II180920-2	1.003	.009	.9658	mg/L	95	85	115	0	20	

Magnesium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG457184													
WG457184ICV	ICV	09/26/18 15:36	II180914-1	100		98.46	mg/L	98	95	105			
WG457184ICB	ICB	09/26/18 15:42				U	mg/L		-0.6	0.6			
WG457184LFB	LFB	09/26/18 15:54	II180920-2	50.2933		46.32	mg/L	92	85	115			
L46928-01AS	AS	09/26/18 17:07	II180920-2	50.2933	28.2	73.66	mg/L	90	85	115			
L46928-01ASD	ASD	09/26/18 17:10	II180920-2	50.2933	28.2	73.15	mg/L	89	85	115	1	20	

Manganese, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG457184													
WG457184ICV	ICV	09/26/18 15:36	II180914-1	2		1.9345	mg/L	97	95	105			
WG457184ICB	ICB	09/26/18 15:42				U	mg/L		-0.015	0.015			
WG457184LFB	LFB	09/26/18 15:54	II180920-2	.5005		.4801	mg/L	96	85	115			
L46928-01AS	AS	09/26/18 17:07	II180920-2	.5005	.014	.4954	mg/L	96	85	115			
L46928-01ASD	ASD	09/26/18 17:10	II180920-2	.5005	.014	.493	mg/L	96	85	115	0	20	

Mercury, dissolved

M245.1 CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG457056													
WG457056ICV1	ICV	09/26/18 12:11	HG180822-3	.004995		00504	mg/L	101	95	105			
WG457056ICB	ICB	09/26/18 12:12				U	mg/L		-0.0002	0.0002			
WG457148													
WG457148LRB	LRB	09/26/18 16:29				U	mg/L		-0.00044	0.00044			
WG457148LFB	LFB	09/26/18 16:30	HG180917-3	.002002		.00192	mg/L	96	85	115			
L46942-01LFM	LFM	09/26/18 16:35	HG180917-3	.002002	U	.00181	mg/L	90	85	115			
L46942-01LFMD	LFMD	09/26/18 16:36	HG180917-3	.002002	U	.00192	mg/L	96	85	115	6	20	

Molybdenum, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG457184													
WG457184ICV	ICV	09/26/18 15:36	II180914-1	2		1.998	mg/L	100	95	105			
WG457184ICB	ICB	09/26/18 15:42				U	mg/L		-0.06	0.06			
WG457184LFB	LFB	09/26/18 15:54	II180920-2	.5015		.469	mg/L	94	85	115			
L46928-01AS	AS	09/26/18 17:07	II180920-2	.5015	U	.466	mg/L	93	85	115			
L46928-01ASD	ASD	09/26/18 17:10	II180920-2	.5015	U	.464	mg/L	93	85	115	0	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L46928**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Nickel, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG457184													
WG457184ICV	ICV	09/26/18 15:36	II180914-1	2.004		1.9668	mg/L	98	95	105			
WG457184ICB	ICB	09/26/18 15:42				U	mg/L		-0.024	0.024			
WG457184LFB	LFB	09/26/18 15:54	II180920-2	.5		.4809	mg/L	96	85	115			
L46928-01AS	AS	09/26/18 17:07	II180920-2	.5	.011	.4849	mg/L	95	85	115			
L46928-01ASD	ASD	09/26/18 17:10	II180920-2	.5	.011	.4812	mg/L	94	85	115	1	20	

Nitrate/Nitrite as N, dissolved

M353.2 - Automated Cadmium Reduction

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG456411													
WG456411ICV	ICV	09/14/18 21:21	WI180905-11	2.416		2.404	mg/L	100	90	110			
WG456411ICB	ICB	09/14/18 21:22				U	mg/L		-0.02	0.02			
WG456411LFB	LFB	09/14/18 21:26	WI180703-7	2		1.992	mg/L	100	90	110			
L46926-01AS	AS	09/14/18 21:28	WI180703-7	2	U	2.016	mg/L	101	90	110			
L46926-02DUP	DUP	09/14/18 21:31			.19	.194	mg/L				2	20	RA
L46928-02AS	AS	09/14/18 21:47	WI180703-7	2	U	1.972	mg/L	99	90	110			
L46928-03DUP	DUP	09/14/18 21:50			.03	.03	mg/L				0	20	RA

Nitrite as N, dissolved

M353.2 - Automated Cadmium Reduction

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG456411													
WG456411ICV	ICV	09/14/18 21:21	WI180905-11	.609		.612	mg/L	100	90	110			
WG456411ICB	ICB	09/14/18 21:22				U	mg/L		-0.01	0.01			
WG456411LFB	LFB	09/14/18 21:26	WI180703-7	1		1.005	mg/L	101	90	110			
L46926-01AS	AS	09/14/18 21:28	WI180703-7	1	U	1.019	mg/L	102	90	110			
L46926-02DUP	DUP	09/14/18 21:31			.02	.018	mg/L				11	20	RA
L46928-02AS	AS	09/14/18 21:47	WI180703-7	1	U	.997	mg/L	100	90	110			
L46928-03DUP	DUP	09/14/18 21:50			U	U	mg/L				0	20	RA

Phosphorus, dissolved

M200.7 - ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG457184													
WG457184ICV	ICV	09/26/18 15:36	II180914-1	5.01		5.07	mg/L	101	95	105			
WG457184ICB	ICB	09/26/18 15:42				U	mg/L		-0.3	0.3			
WG457184LFB	LFB	09/26/18 15:54	II180920-2	1.004		.98	mg/L	98	85	115			
L46928-01AS	AS	09/26/18 17:07	II180920-2	1.004	U	.96	mg/L	96	85	115			
L46928-01ASD	ASD	09/26/18 17:10	II180920-2	1.004	U	.98	mg/L	98	85	115	2	20	

Potassium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG457184													
WG457184ICV	ICV	09/26/18 15:36	II180914-1	20		19.53	mg/L	98	95	105			
WG457184ICB	ICB	09/26/18 15:42				U	mg/L		-0.6	0.6			
WG457184LFB	LFB	09/26/18 15:54	II180920-2	101.3833		94.31	mg/L	93	85	115			
L46928-01AS	AS	09/26/18 17:07	II180920-2	101.3833	2.1	97.71	mg/L	94	85	115			
L46928-01ASD	ASD	09/26/18 17:10	II180920-2	101.3833	2.1	97.02	mg/L	94	85	115	1	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L46928**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Selenium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG457179													
WG457179ICV	ICV	09/26/18 20:58	MS180914-2	.05		.05019	mg/L	100	90	110			
WG457179ICB	ICB	09/26/18 21:00				U	mg/L		-0.00022	0.00022			
WG457179LFB	LFB	09/26/18 21:01	MS180830-2	.05005		.04965	mg/L	99	85	115			
L46896-02AS	AS	09/26/18 21:13	MS180830-2	.05005	.0003	.04458	mg/L	88	70	130			
L46896-02ASD	ASD	09/26/18 21:14	MS180830-2	.05005	.0003	.04393	mg/L	87	70	130	1	20	
L46929-01AS	AS	09/26/18 21:29	MS180830-2	.05005		U	mg/L	95	70	130			
L46929-01ASD	ASD	09/26/18 21:31	MS180830-2	.05005		U	mg/L	96	70	130	2	20	

Silica, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG457184													
WG457184ICV	ICV	09/26/18 15:36	II180914-1	42.8		41.58	mg/L	97	95	105			
WG457184ICB	ICB	09/26/18 15:42				U	mg/L		-0.6	0.6			
WG457184LFB	LFB	09/26/18 15:54	II180920-2	21.415		20.66	mg/L	96	85	115			
L46928-01AS	AS	09/26/18 17:07	II180920-2	21.415	8.8	29.03	mg/L	94	85	115			
L46928-01ASD	ASD	09/26/18 17:10	II180920-2	21.415	8.8	28.95	mg/L	94	85	115	0	20	

Sodium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG457184													
WG457184ICV	ICV	09/26/18 15:36	II180914-1	100		98.6	mg/L	99	95	105			
WG457184ICB	ICB	09/26/18 15:42				U	mg/L		-0.6	0.6			
WG457184LFB	LFB	09/26/18 15:54	II180920-2	100.8796		94.68	mg/L	94	85	115			
L46928-01AS	AS	09/26/18 17:07	II180920-2	100.8796	5.3	100.7	mg/L	95	85	115			
L46928-01ASD	ASD	09/26/18 17:10	II180920-2	100.8796	5.3	99.7	mg/L	94	85	115	1	20	

Strontium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG457184													
WG457184ICV	ICV	09/26/18 15:36	II180914-1	2		1.953	mg/L	98	95	105			
WG457184ICB	ICB	09/26/18 15:42				U	mg/L		-0.015	0.015			
WG457184LFB	LFB	09/26/18 15:54	II180920-2	.5015		.4721	mg/L	94	85	115			
L46928-01AS	AS	09/26/18 17:07	II180920-2	.5015	.256	.7241	mg/L	93	85	115			
L46928-01ASD	ASD	09/26/18 17:10	II180920-2	.5015	.256	.7174	mg/L	92	85	115	1	20	

Sulfate

D516-02/-07 - Turbidimetric

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG456669													
WG456669ICB	ICB	09/19/18 8:43				U	mg/L		-3	3			
WG456669ICV	ICV	09/19/18 8:43	WI180919-3	20		20.2	mg/L	101	90	110			
WG456669LFB	LFB	09/19/18 11:59	WI180919-5	10.03		9.8	mg/L	98	90	110			
L46928-02DUP	DUP	09/19/18 12:45			179	179	mg/L				0	20	
L46928-01AS	AS	09/19/18 13:02	WI180919-5	10.03	23.3	34.5	mg/L	112	90	110			M2

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L46928**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Sulfur, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG457184													
WG457184ICV	ICV	09/26/18 15:36	II180914-1	50.08		50.44	mg/L	101	95	105			
WG457184ICB	ICB	09/26/18 15:42				U	mg/L		-0.9	0.9			
WG457184LFB	LFB	09/26/18 15:54	II180920-2	5.005		4.87	mg/L	97	85	115			
L46928-01AS	AS	09/26/18 17:07	II180920-2	5.005	5.9	10.56	mg/L	93	85	115			
L46928-01ASD	ASD	09/26/18 17:10	II180920-2	5.005	5.9	10.4	mg/L	90	85	115	2	20	

Thallium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG457179													
WG457179ICV	ICV	09/26/18 20:58	MS180914-2	.05		.04964	mg/L	99	90	110			
WG457179ICB	ICB	09/26/18 21:00				U	mg/L		-0.00022	0.00022			
WG457179LFB	LFB	09/26/18 21:01	MS180830-2	.0501		.04937	mg/L	99	85	115			
L46896-02AS	AS	09/26/18 21:13	MS180830-2	.0501	U	.04626	mg/L	92	70	130			
L46896-02ASD	ASD	09/26/18 21:14	MS180830-2	.0501	U	.04598	mg/L	92	70	130	1	20	
L46929-01AS	AS	09/26/18 21:29	MS180830-2	.0501	U	.04874	mg/L	97	70	130			
L46929-01ASD	ASD	09/26/18 21:31	MS180830-2	.0501	U	.05071	mg/L	101	70	130	4	20	

Thorium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG457299													
WG457299ICV	ICV	09/27/18 12:41	MS180914-2	.05		.0494	mg/L	99	90	110			
WG457299ICB	ICB	09/27/18 12:42				U	mg/L		-0.0022	0.0022			
WG457299LFB	LFB	09/27/18 12:44	MS180830-2	.05		.0475	mg/L	95	85	115			
L46929-01AS	AS	09/27/18 12:50	MS180830-2	.05	U	.051	mg/L	102	70	130			
L46929-01ASD	ASD	09/27/18 12:51	MS180830-2	.05	U	.0506	mg/L	101	70	130	1	20	
WG457420													
WG457420ICV	ICV	09/28/18 20:34	MS180914-2	.05		.049	mg/L	98	90	110			
WG457420ICB	ICB	09/28/18 20:35				U	mg/L		-0.0022	0.0022			
WG457420LFB	LFB	09/28/18 20:37	MS180830-2	.05		.0519	mg/L	104	85	115			
L45309-10AS	AS	09/28/18 20:52	MS180830-2	.05	U	.0457	mg/L	91	70	130			
L45309-10ASD	ASD	09/28/18 20:54	MS180830-2	.05	U	.049	mg/L	98	70	130	7	20	

Tin, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG457184													
WG457184ICV	ICV	09/26/18 15:36	II180914-1	2		1.997	mg/L	100	95	105			
WG457184ICB	ICB	09/26/18 15:42				U	mg/L		-0.12	0.12			
WG457184LFB	LFB	09/26/18 15:54	II180920-2	.989		.949	mg/L	96	85	115			
L46928-01AS	AS	09/26/18 17:07	II180920-2	.989	U	.949	mg/L	96	85	115			
L46928-01ASD	ASD	09/26/18 17:10	II180920-2	.989	U	.947	mg/L	96	85	115	0	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L46928**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Titanium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG457312													
WG457312ICV	ICV	09/27/18 11:47	II180824-2	2		2.013	mg/L	101	95	105			
WG457312ICB	ICB	09/27/18 11:54				U	mg/L		-0.015	0.015			
WG457312LFB	LFB	09/27/18 12:07	II180926-3	.995		1.033	mg/L	104	85	115			
L46928-01AS	AS	09/27/18 12:27	II180926-3	.995	U	1.042	mg/L	105	85	115			
L46928-01ASD	ASD	09/27/18 12:30	II180926-3	.995	U	1.042	mg/L	105	85	115	0	20	
WG457340													
WG457340ICV	ICV	09/27/18 18:35	II180914-1	2		2.026	mg/L	101	95	105			
WG457340ICB	ICB	09/27/18 18:41				U	mg/L		-0.015	0.015			
WG457340LFB	LFB	09/27/18 18:54	II180926-3	.995		1.016	mg/L	102	85	115			
L46974-01AS	AS	09/27/18 19:04	II180926-3	.995	U	1.021	mg/L	103	85	115			
L46974-01ASD	ASD	09/27/18 19:07	II180926-3	.995	U	1.022	mg/L	103	85	115	0	20	

Uranium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG457179													
WG457179ICV	ICV	09/26/18 20:58	MS180914-2	.05		.04832	mg/L	97	90	110			
WG457179ICB	ICB	09/26/18 21:00				U	mg/L		-0.00022	0.00022			
WG457179LFB	LFB	09/26/18 21:01	MS180830-2	.05		.04947	mg/L	99	85	115			
L46896-02AS	AS	09/26/18 21:13	MS180830-2	.05	U	.0472	mg/L	94	70	130			
L46896-02ASD	ASD	09/26/18 21:14	MS180830-2	.05	U	.04652	mg/L	93	70	130	1	20	
L46929-01AS	AS	09/26/18 21:29	MS180830-2	.05	.0043	.05449	mg/L	100	70	130			
L46929-01ASD	ASD	09/26/18 21:31	MS180830-2	.05	.0043	.05707	mg/L	106	70	130	5	20	

Vanadium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG457184													
WG457184ICV	ICV	09/26/18 15:36	II180914-1	2		1.96	mg/L	98	95	105			
WG457184ICB	ICB	09/26/18 15:42				U	mg/L		-0.015	0.015			
WG457184LFB	LFB	09/26/18 15:54	II180920-2	.501		.4736	mg/L	95	85	115			
L46928-01AS	AS	09/26/18 17:07	II180920-2	.501	U	.4661	mg/L	93	85	115			
L46928-01ASD	ASD	09/26/18 17:10	II180920-2	.501	U	.4596	mg/L	92	85	115	1	20	

Zinc, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG457184													
WG457184ICV	ICV	09/26/18 15:36	II180914-1	2		1.961	mg/L	98	95	105			
WG457184ICB	ICB	09/26/18 15:42				U	mg/L		-0.03	0.03			
WG457184LFB	LFB	09/26/18 15:54	II180920-2	.4942		.488	mg/L	99	85	115			
L46928-01AS	AS	09/26/18 17:07	II180920-2	.4942	U	.504	mg/L	102	85	115			
L46928-01ASD	ASD	09/26/18 17:10	II180920-2	.4942	U	.483	mg/L	98	85	115	4	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L46928**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L46928-01	WG456411	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	H3	Sample was received and analyzed past holding time.
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG456669	Sulfate	D516-02/-07 - Turbidimetric	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
L46928-02	WG456411	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	H3	Sample was received and analyzed past holding time.
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG456669	Sulfate	D516-02/-07 - Turbidimetric	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
L46928-03	WG456411	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	H3	Sample was received and analyzed past holding time.
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG456669	Sulfate	D516-02/-07 - Turbidimetric	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
L46928-04	WG456720	Conductivity @25C	SM2510B	ZW	Method deviation. The sample was centrifuged prior to analysis due to high solid content.
	WG456411	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	HE	Analysis performed past holding time. Method holding time is less than or equal to 7 days and sample was received with less than half of the holding time remaining (refer to item C5 of ACZ's Terms & Conditions).
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG456669	Sulfate	M353.2 - Automated Cadmium Reduction	HE	Analysis performed past holding time. Method holding time is less than or equal to 7 days and sample was received with less than half of the holding time remaining (refer to item C5 of ACZ's Terms & Conditions).
M353.2 - Automated Cadmium Reduction			RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).	
WG457420	Thorium, dissolved	M200.8 ICP-MS	VC	CCV recovery was above the acceptance limits. Target analyte was not detected in the sample [< MDL].	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L46928**

Metals Analysis

The following parameters are not offered for certification or are not covered by AZ certificate #AZ0102.

Bismuth, dissolved	M200.7 ICP
Gallium, dissolved	M200.7 ICP
Phosphorus, dissolved	M200.7 - ICP
Sulfur, dissolved	M200.7 ICP
Thorium, dissolved	M200.8 ICP-MS
Titanium, dissolved	M200.7 ICP

The following parameters are not offered for certification or are not covered by NELAC certificate #ACZ.

Bismuth, dissolved	M200.7 ICP
Gallium, dissolved	M200.7 ICP
Sulfur, dissolved	M200.7 ICP

Sample Receipt

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L46928
 Date Received: 09/14/2018 11:22
 Received By:
 Date Printed: 9/17/2018

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody form or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?		X	
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody form complete and accurate?	X		
7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples?	X		

A change was made in the Invoice to: Lines 2 and 3. Sample ID: Date:Time Lines 1-3 section prior to ACZ custody.

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits? ¹	X		
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?	X		

NA indicates Not Applicable

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp (°C)	Temp Criteria (°C)	Rad (µR/Hr)	Custody Seal Intact?
4693	5.4	<=6.0	15	Yes

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L46928

Date Received: 09/14/2018 11:22

Received By:

Date Printed: 9/17/2018

¹ The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na₂S₂O₃ preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).



Laboratories, Inc. 46928

CHAIN of CUSTODY

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Report to:

Name: Kathy Weinel
Company: Energy Fuels Resources
E-mail: kweinel@EnergyFuels.com

Address: 225 Union Blvd, Suite 600
Lakewood, CO, 80228
Telephone:

Copy of Report to:

Name:
Company:

E-mail:
Telephone:

Invoice to:

Name: Kathy Weinel
Company: SA Above
E-mail: SA Above

Address:
Telephone: Same as Above

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES [X] NO []

If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified

Are samples for SDWA Compliance Monitoring? Yes [] No [X]

If yes, please include state forms. Results will be reported to PQL for Colorado.

Sampler's Name: Matt German Sampler's Site Information State AZ Zip code 86 Time zone AZ

*Sampler's Signature: [Signature] I attest to the authenticity and validity of this sample. I understand that intentionally mislabeling the time/date/location or tampering with the sample in anyway, is considered fraud and punishable by State Law.

PROJECT INFORMATION

ANALYSES REQUESTED (attach list or use quote number)

Quote #: US GS-SPLITS-2018
PO#: -
Reporting state for compliance testing: N/A

Check box if samples include NRC licensed material?

SAMPLE IDENTIFICATION DATE TIME Matrix

Table with 4 columns: Sample ID, Date/Time, Matrix, and # of Containers. Rows include CM Wet Pond 1, Pond 2, and Pine nut Well.

Table with 10 columns for analytical results, with 'See Quote' written vertically in the first column.

Matrix SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

Table for Relinquished and Received information, including names, dates, and times.

46928 Chain of Custody

the 1990s, the number of people with a tertiary education has increased from 10% to 20% of the population (Table 1).

There are a number of reasons for the increase in tertiary education. First, the government has increased its expenditure on tertiary education. The government has increased its expenditure on tertiary education from 1.5% of GDP in 1990 to 2.5% of GDP in 2000. This increase in expenditure has led to an increase in the number of tertiary institutions and the number of tertiary students.

Second, the government has increased the number of tertiary institutions. The number of tertiary institutions has increased from 10 in 1990 to 20 in 2000.

Third, the government has increased the number of tertiary students. The number of tertiary students has increased from 100,000 in 1990 to 200,000 in 2000.

Fourth, the government has increased the number of tertiary institutions. The number of tertiary institutions has increased from 10 in 1990 to 20 in 2000.

Fifth, the government has increased the number of tertiary students. The number of tertiary students has increased from 100,000 in 1990 to 200,000 in 2000.

Sixth, the government has increased the number of tertiary institutions. The number of tertiary institutions has increased from 10 in 1990 to 20 in 2000.

Seventh, the government has increased the number of tertiary students. The number of tertiary students has increased from 100,000 in 1990 to 200,000 in 2000.

Eighth, the government has increased the number of tertiary institutions. The number of tertiary institutions has increased from 10 in 1990 to 20 in 2000.

Ninth, the government has increased the number of tertiary students. The number of tertiary students has increased from 100,000 in 1990 to 200,000 in 2000.

Tenth, the government has increased the number of tertiary institutions. The number of tertiary institutions has increased from 10 in 1990 to 20 in 2000.

Eleventh, the government has increased the number of tertiary students. The number of tertiary students has increased from 100,000 in 1990 to 200,000 in 2000.

Twelfth, the government has increased the number of tertiary institutions. The number of tertiary institutions has increased from 10 in 1990 to 20 in 2000.

Thirteenth, the government has increased the number of tertiary students. The number of tertiary students has increased from 100,000 in 1990 to 200,000 in 2000.

Fourteenth, the government has increased the number of tertiary institutions. The number of tertiary institutions has increased from 10 in 1990 to 20 in 2000.

Fifteenth, the government has increased the number of tertiary students. The number of tertiary students has increased from 100,000 in 1990 to 200,000 in 2000.

Sixteenth, the government has increased the number of tertiary institutions. The number of tertiary institutions has increased from 10 in 1990 to 20 in 2000.

Seventeenth, the government has increased the number of tertiary students. The number of tertiary students has increased from 100,000 in 1990 to 200,000 in 2000.

Eighteenth, the government has increased the number of tertiary institutions. The number of tertiary institutions has increased from 10 in 1990 to 20 in 2000.

Nineteenth, the government has increased the number of tertiary students. The number of tertiary students has increased from 100,000 in 1990 to 200,000 in 2000.

Twentieth, the government has increased the number of tertiary institutions. The number of tertiary institutions has increased from 10 in 1990 to 20 in 2000.

Twenty-first, the government has increased the number of tertiary students. The number of tertiary students has increased from 100,000 in 1990 to 200,000 in 2000.

Twenty-second, the government has increased the number of tertiary institutions. The number of tertiary institutions has increased from 10 in 1990 to 20 in 2000.

Twenty-third, the government has increased the number of tertiary students. The number of tertiary students has increased from 100,000 in 1990 to 200,000 in 2000.

Twenty-fourth, the government has increased the number of tertiary institutions. The number of tertiary institutions has increased from 10 in 1990 to 20 in 2000.

Twenty-fifth, the government has increased the number of tertiary students. The number of tertiary students has increased from 100,000 in 1990 to 200,000 in 2000.

Twenty-sixth, the government has increased the number of tertiary institutions. The number of tertiary institutions has increased from 10 in 1990 to 20 in 2000.

Twenty-seventh, the government has increased the number of tertiary students. The number of tertiary students has increased from 100,000 in 1990 to 200,000 in 2000.

September 24, 2019

Report to:

Kathy Weinel

Energy Fuels Resources (USA) Inc.

225 Union Blvd. ,Suite 600

Lakewood, CO 80228

Bill to:

Accounts Payable

Energy Fuels Resources (USA) Inc.

225 Union Blvd. ,Suite 600

Lakewood, CO 80228

Project ID:

ACZ Project ID: L54546

Kathy Weinel:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on September 12, 2019. This project has been assigned to ACZ's project number, L54546. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L54546. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after October 24, 2019. If the samples are determined to be hazardous, additional charges apply for disposal (typically \$11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.



Max Janicek has reviewed and approved this report.



Energy Fuels Resources (USA) Inc.
 Project ID:
 Sample ID: CYN-WELL

ACZ Sample ID: **L54546-04**
 Date Sampled: 09/11/19 00:00
 Date Received: 09/12/19
 Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Total Hot Plate Digestion	M200.2 ICP				*				09/18/19 13:49	jlw
Total Hot Plate Digestion	M200.2 ICP-MS								09/17/19 5:30	rap

Energy Fuels Resources (USA) Inc.

Project ID:

Sample ID: CYN-WELL

ACZ Sample ID: **L54546-04**

Date Sampled: 09/11/19 00:00

Date Received: 09/12/19

Sample Matrix: Groundwater

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	1		U	*	mg/L	0.05	0.3	09/17/19 21:56	jlw
Aluminum, total	M200.7 ICP	1		U		mg/L	0.05	0.3	09/19/19 14:26	kja/jlw
Arsenic, dissolved	M200.8 ICP-MS	1	0.0004	B		mg/L	0.0002	0.001	09/18/19 15:34	mfm
Arsenic, total	M200.8 ICP-MS	1	0.0003	B		mg/L	0.0002	0.001	09/17/19 13:30	mfm
Bismuth, dissolved	M200.7 ICP	1		U	*	mg/L	0.04	0.2	09/17/19 21:56	jlw
Bismuth, total	M200.7 ICP	1		U	*	mg/L	0.04	0.2	09/19/19 14:26	kja/jlw
Cadmium, dissolved	M200.8 ICP-MS	1		U		mg/L	0.00005	0.0003	09/18/19 15:34	mfm
Cadmium, total	M200.8 ICP-MS	1		U		mg/L	0.00005	0.0003	09/17/19 13:30	mfm
Calcium, dissolved	M200.7 ICP	1	41.6			mg/L	0.1	0.5	09/17/19 21:56	jlw
Calcium, total	M200.7 ICP	1	40.0			mg/L	0.1	0.5	09/19/19 14:26	kja/jlw
Chromium, dissolved	M200.8 ICP-MS	1		U		mg/L	0.0005	0.002	09/18/19 15:34	mfm
Chromium, total	M200.8 ICP-MS	1		U		mg/L	0.0005	0.002	09/17/19 13:30	mfm
Cobalt, dissolved	M200.8 ICP-MS	1	0.00014	B		mg/L	0.00005	0.0003	09/18/19 15:34	mfm
Cobalt, total	M200.8 ICP-MS	1	0.00018	B		mg/L	0.00005	0.0003	09/17/19 13:30	mfm
Copper, dissolved	M200.8 ICP-MS	1	0.0013	B		mg/L	0.0008	0.002	09/18/19 15:34	mfm
Copper, total	M200.8 ICP-MS	1	0.0015	B		mg/L	0.0008	0.002	09/17/19 13:30	mfm
Iron, dissolved	M200.7 ICP	1		U		mg/L	0.03	0.08	09/17/19 21:56	jlw
Iron, total	M200.7 ICP	1	0.08			mg/L	0.03	0.08	09/19/19 14:26	kja/jlw
Lead, dissolved	M200.8 ICP-MS	1	0.0002	B		mg/L	0.0001	0.0005	09/18/19 15:34	mfm
Lead, total	M200.8 ICP-MS	1	0.0007			mg/L	0.0001	0.0005	09/17/19 13:30	mfm
Magnesium, dissolved	M200.7 ICP	1	28.7			mg/L	0.2	1	09/17/19 21:56	jlw
Magnesium, total	M200.7 ICP	1	28.1			mg/L	0.2	1	09/19/19 14:26	kja/jlw
Manganese, dissolved	M200.7 ICP	1		U		mg/L	0.01	0.05	09/17/19 21:56	jlw
Manganese, total	M200.7 ICP	1		U		mg/L	0.01	0.05	09/19/19 14:26	kja/jlw
Molybdenum, dissolved	M200.8 ICP-MS	1	0.0014			mg/L	0.0002	0.0005	09/18/19 15:34	mfm
Molybdenum, total	M200.8 ICP-MS	1	0.0013			mg/L	0.0002	0.0005	09/17/19 13:30	mfm
Nickel, dissolved	M200.7 ICP	1		U		mg/L	0.008	0.04	09/17/19 21:56	jlw
Nickel, total	M200.7 ICP	1		U		mg/L	0.008	0.04	09/19/19 14:26	kja/jlw
Phosphorus, total	M200.7 ICP	1		U	*	mg/L	0.1	0.5	09/19/19 14:26	kja/jlw
Potassium, dissolved	M200.7 ICP	1	2.7			mg/L	0.2	1	09/17/19 21:56	jlw
Potassium, total	M200.7 ICP	1	2.8			mg/L	0.2	1	09/19/19 14:26	kja/jlw
Selenium, dissolved	M200.8 ICP-MS	1	0.0067			mg/L	0.0001	0.0003	09/18/19 15:34	mfm
Selenium, total	M200.8 ICP-MS	1	0.0059		*	mg/L	0.0001	0.0003	09/17/19 13:30	mfm
Silver, dissolved	M200.8 ICP-MS	1		U		mg/L	0.0001	0.0005	09/18/19 15:34	mfm
Silver, total	M200.8 ICP-MS	1		U		mg/L	0.0001	0.0005	09/17/19 13:30	mfm
Sodium, dissolved	M200.7 ICP	1	8.7			mg/L	0.2	1	09/17/19 21:56	jlw
Sodium, total	M200.7 ICP	1	8.8			mg/L	0.2	1	09/19/19 14:26	kja/jlw
Strontium, dissolved	M200.7 ICP	1	0.280			mg/L	0.009	0.05	09/17/19 21:56	jlw
Strontium, total	M200.7 ICP	1	0.269			mg/L	0.009	0.05	09/19/19 14:26	kja/jlw
Thallium, dissolved	M200.8 ICP-MS	1		U		mg/L	0.0001	0.0005	09/18/19 15:34	mfm
Thallium, total	M200.8 ICP-MS	1	0.0001	B		mg/L	0.0001	0.0005	09/17/19 13:30	mfm
Thorium, dissolved	M200.8 ICP-MS	1		U	*	mg/L	0.001	0.005	09/18/19 15:34	mfm
Thorium, total	M200.8 ICP-MS	1		U	*	mg/L	0.001	0.005	09/17/19 13:30	mfm

Energy Fuels Resources (USA) Inc.
 Project ID:
 Sample ID: CYN-WELL

ACZ Sample ID: **L54546-04**
 Date Sampled: 09/11/19 00:00
 Date Received: 09/12/19
 Sample Matrix: Groundwater

Uranium, dissolved	M200.8 ICP-MS	1	0.0156		mg/L	0.0001	0.0005	09/18/19 15:34	mfm
Uranium, total	M200.8 ICP-MS	1	0.0157		mg/L	0.0001	0.0005	09/17/19 13:30	mfm
Vanadium, dissolved	M200.8 ICP-MS	1		U	mg/L	0.0005	0.002	09/18/19 15:34	mfm
Vanadium, total	M200.8 ICP-MS	1		U	mg/L	0.0005	0.002	09/17/19 13:30	mfm
Zinc, dissolved	M200.7 ICP	1		U	mg/L	0.01	0.05	09/17/19 21:56	jlw
Zinc, total	M200.7 ICP	1	0.01	B	mg/L	0.01	0.05	09/19/19 14:26	kja/jlw

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	230			mg/L	2	20	09/19/19 0:00	enb
Carbonate as CaCO3		1		U		mg/L	2	20	09/19/19 0:00	enb
Hydroxide as CaCO3		1		U		mg/L	2	20	09/19/19 0:00	enb
Total Alkalinity		1	230			mg/L	2	20	09/19/19 0:00	enb
Bromide	M300.0 - Ion Chromatography	1		U	*	mg/L	0.05	0.25	09/20/19 14:38	krh
Carbon, dissolved organic (DOC)	SM5310B	1	23.8			mg/L	1	5	09/17/19 11:48	ttg
Chloride	M300.0 - Ion Chromatography	1	7.03			mg/L	0.4	2	09/20/19 14:38	krh
Conductivity @25C	SM2510B	1	439			umhos/cm	1	10	09/19/19 21:03	enb
Fluoride	M300.0 - Ion Chromatography	1	0.32		*	mg/L	0.05	0.25	09/20/19 14:38	krh
Hardness as CaCO3 (dissolved)	SM2340B - Calculation		222			mg/L	0.2	5	09/24/19 0:00	calc
Hardness as CaCO3 (total)	SM2340B - Calculation		216			mg/L	0.2	5	09/24/19 0:00	calc
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	0.13		*	mg/L	0.02	0.1	09/21/19 23:44	pjb
Nitrogen, ammonia	M350.1 Auto Salicylate w/gas diffusion	1		U	*	mg/L	0.05	0.2	09/18/19 12:44	mss2
pH (lab)	SM4500H+ B									
pH		1	8.2	H		units	0.1	0.1	09/19/19 0:00	enb
pH measured at		1	20.2			C	0.1	0.1	09/19/19 0:00	enb
Phosphate, total	Calculation based on total Phosphorus			U		mg/L	0.3	2	09/24/19 0:00	calc
Sulfate	M300.0 - Ion Chromatography	1	19.4			mg/L	0.4	2	09/20/19 14:38	krh

Arizona license number: AZ0102

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L54546**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Alkalinity as CaCO3 SM2320B - Titration

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG482034													
WG482034PBW1	PBW	09/19/19 16:24				U	mg/L		-20	20			
WG482034LCSW3	LCSW	09/19/19 16:44	WC190916-1	820.0001		852	mg/L	104	90	110			
L54546-02DUP	DUP	09/19/19 20:15			136	135	mg/L				1	20	
WG482034LCSW6	LCSW	09/19/19 20:34	WC190916-1	820.0001		812	mg/L	99	90	110			
WG482034PBW2	PBW	09/19/19 20:42				5.9	mg/L		-20	20			
L54554-03DUP	DUP	09/20/19 8:36			46.5	52	mg/L				11	20	
WG482034LCSW9	LCSW	09/20/19 11:30	WC190916-1	820.0001		887	mg/L	108	90	110			
WG482034PBW3	PBW	09/20/19 11:37				5.6	mg/L		-20	20			
WG482034LCSW12	LCSW	09/20/19 17:03	WC190916-1	820.0001		858	mg/L	105	90	110			
WG482034PBW4	PBW	09/20/19 17:10				U	mg/L		-20	20			

Aluminum, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG481805													
WG481805ICV	ICV	09/17/19 20:55	II190916-3	2		1.998	mg/L	100	95	105			
WG481805ICB	ICB	09/17/19 21:01				U	mg/L		-0.15	0.15			
WG481805LFB	LFB	09/17/19 21:13	II190916-2	1.0012		1.122	mg/L	112	85	115			
L54545-02AS	AS	09/17/19 21:32	II190916-2	1.0012	U	1.169	mg/L	117	85	115			M1
L54545-02ASD	ASD	09/17/19 21:35	II190916-2	1.0012	U	1.233	mg/L	123	85	115	5	20	M1
L54550-02AS	AS	09/17/19 22:18	II190916-2	1.0012	27	1.371	mg/L	110	85	115			
L54550-02ASD	ASD	09/17/19 22:27	II190916-2	1.0012	27	1.369	mg/L	110	85	115	0	20	

Aluminum, total M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG482004													
WG482004ICV	ICV	09/19/19 13:04	II190912-1	2		1.976	mg/L	99	95	105			
WG482004ICB	ICB	09/19/19 13:10				U	mg/L		-0.15	0.15			
WG481871LRB	LRB	09/19/19 13:23				U	mg/L		-0.11	0.11			
WG481871LFB	LFB	09/19/19 13:27	II190916-2	1.0012		1.072	mg/L	107	85	115			
L54546-05LFM	LFM	09/19/19 14:32	II2XWATER	2.0038	U	2.22	mg/L	111	70	130			
L54546-05LFMD	LFMD	09/19/19 14:42	II2XWATER	2.0038	U	2.24	mg/L	112	70	130	1	20	

Arsenic, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG481929													
WG481929ICV	ICV	09/18/19 14:54	MS190806-2	.05		.05177	mg/L	104	90	110			
WG481929ICB	ICB	09/18/19 14:56				U	mg/L		-0.00044	0.00044			
WG481929LFB	LFB	09/18/19 14:58	MS190905-3	.05005		.0482	mg/L	96	85	115			
L54546-04AS	AS	09/18/19 15:35	MS190905-3	.05005	.0004	05729	mg/L	114	70	130			
L54546-04ASD	ASD	09/18/19 15:41	MS190905-3	.05005	.0004	.05691	mg/L	113	70	130	1	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L54546**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Arsenic, total M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG481798													
WG481798ICV	ICV	09/17/19 12:17	MS190806-2	.05		.04738	mg/L	95	90	110			
WG481798ICB	ICB	09/17/19 12:19				U	mg/L		-0.0006	0.0006			
WG481729LRB	LRB	09/17/19 12:21				U	mg/L		-0.00044	0.00044			
WG481729LFB	LFB	09/17/19 12:22	MS190905-3	.05005		.04806	mg/L	96	85	115			
L54546-05LFM	LFM	09/17/19 13:37	MS190905-3	05005	.0976	.15029	mg/L	105	70	130			
L54546-05LFMD	LFMD	09/17/19 13:38	MS190905-3	05005	.0976	.14418	mg/L	93	70	130	4	20	

Bismuth, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG481805													
WG481805ICV	ICV	09/17/19 20:55	II190916-3	2		1.942	mg/L	97	95	105			
WG481805ICB	ICB	09/17/19 21:01				U	mg/L		-0.12	0.12			
WG481805LFB	LFB	09/17/19 21:13	II190916-2	.9993		.989	mg/L	99	85	115			
L54545-02AS	AS	09/17/19 21:32	II190916-2	.9993	U	1.03	mg/L	103	85	115			
L54545-02ASD	ASD	09/17/19 21:35	II190916-2	.9993	U	1.034	mg/L	103	85	115	0	20	
L54550-02AS	AS	09/17/19 22:18	II190916-2	.9993	U	991	mg/L	99	85	115			
L54550-02ASD	ASD	09/17/19 22:27	II190916-2	.9993	U	1.012	mg/L	101	85	115	2	20	

Bismuth, total M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG482004													
WG482004ICV	ICV	09/19/19 13:04	II190912-1	2		1.927	mg/L	96	95	105			
WG482004ICB	ICB	09/19/19 13:10				U	mg/L		-0.12	0.12			
WG481871LRB	LRB	09/19/19 13:23				U	mg/L		-0.088	0.088			
WG481871LFB	LFB	09/19/19 13:27	II190916-2	.9993		.961	mg/L	96	85	115			
L54546-05LFM	LFM	09/19/19 14:32	II2XWATER	1.9986	U	1.946	mg/L	97	70	130			
L54546-05LFMD	LFMD	09/19/19 14:42	II2XWATER	1.9986	U	1.922	mg/L	96	70	130	1	20	

Bromide M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG478241													
WG478241ICV	ICV	07/30/19 12:02	WI190530-11	4.012		4.04	mg/L	101	90	110			
WG478241ICB	ICB	07/30/19 12:20				U	mg/L		-0.05	0.05			
WG481920													
WG481920LFB	LFB	09/18/19 16:23	WI190722-1	1.5		1.45	mg/L	97	90	110			
L54508-01DUP	DUP	09/18/19 16:59			U	U	mg/L				0	20	RA
L54546-01AS	AS	09/18/19 17:35	WI190722-1	15	U	13.1	mg/L	87	90	110			M2

Cadmium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG481929													
WG481929ICV	ICV	09/18/19 14:54	MS190806-2	.05		.051686	mg/L	103	90	110			
WG481929ICB	ICB	09/18/19 14:56				U	mg/L		-0.00011	0.00011			
WG481929LFB	LFB	09/18/19 14:58	MS190905-3	.05005		.047626	mg/L	95	85	115			
L54546-04AS	AS	09/18/19 15:35	MS190905-3	.05005	U	.053734	mg/L	107	70	130			
L54546-04ASD	ASD	09/18/19 15:41	MS190905-3	.05005	U	.053495	mg/L	107	70	130	0	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L54546**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Cadmium, total M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG481798													
WG481798ICV	ICV	09/17/19 12:17	MS190806-2	05		.04777	mg/L	96	90	110			
WG481798ICB	ICB	09/17/19 12:19				U	mg/L		-0.00015	0.00015			
WG481729LRB	LRB	09/17/19 12:21				U	mg/L		-0.00011	0.00011			
WG481729LFB	LFB	09/17/19 12:22	MS190905-3	.05005		.048423	mg/L	97	85	115			
L54546-05LFM	LFM	09/17/19 13:37	MS190905-3	.05005	.00016	.049729	mg/L	99	70	130			
L54546-05LFMD	LFMD	09/17/19 13:38	MS190905-3	.05005	.00016	048892	mg/L	97	70	130	2	20	

Calcium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG481805													
WG481805ICV	ICV	09/17/19 20:55	II190916-3	100		96.89	mg/L	97	95	105			
WG481805ICB	ICB	09/17/19 21:01				U	mg/L		-0.3	0.3			
WG481805LFB	LFB	09/17/19 21:13	II190916-2	68.01207		68.93	mg/L	101	85	115			
L54545-02AS	AS	09/17/19 21:32	II190916-2	68.01207	43.8	109.2	mg/L	96	85	115			
L54545-02ASD	ASD	09/17/19 21:35	II190916-2	68.01207	43.8	114.1	mg/L	103	85	115	4	20	
L54550-02AS	AS	09/17/19 22:18	II190916-2	68.01207	85.5	147.7	mg/L	91	85	115			
L54550-02ASD	ASD	09/17/19 22:27	II190916-2	68.01207	85.5	148.5	mg/L	93	85	115	1	20	

Calcium, total M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG482004													
WG482004ICV	ICV	09/19/19 13:04	II190912-1	100		96.38	mg/L	96	95	105			
WG482004ICB	ICB	09/19/19 13:10				U	mg/L		-0.3	0.3			
WG481871LRB	LRB	09/19/19 13:23				U	mg/L		-0.22	0.22			
WG481871LFB	LFB	09/19/19 13:27	II190916-2	68.01207		66.29	mg/L	97	85	115			
L54546-05LFM	LFM	09/19/19 14:32	II2XWATER	136.0667	126	264	mg/L	101	70	130			
L54546-05LFMD	LFMD	09/19/19 14:42	II2XWATER	136.0667	126	262.2	mg/L	100	70	130	1	20	

Carbon, dissolved organic (DOC) SM5310B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG481758													
WG481758LFB	LFB	09/17/19 11:48	WI190710-7	50		52.6	mg/L	105	90	110			
L54531-02DUP	DUP	09/17/19 11:48			16.8	16.2	mg/L				4	20	
L54531-03AS	AS	09/17/19 11:48	WI190710-7	50	16.1	67.1	mg/L	102	90	110			

Chloride M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG478241													
WG478241ICV	ICV	07/30/19 12:02	WI190530-11	19.94		19.8	mg/L	99	90	110			
WG478241ICB	ICB	07/30/19 12:20				U	mg/L		-0.4	0.4			
WG481920													
WG481920LFB	LFB	09/18/19 16:23	WI190722-1	30		29.3	mg/L	98	90	110			
L54508-01DUP	DUP	09/18/19 16:59			26.9	26.7	mg/L				1	20	
L54546-01AS	AS	09/18/19 17:35	WI190722-1	300	63	358	mg/L	98	90	110			

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L54546**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Chromium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG481929													
WG481929ICV	ICV	09/18/19 14:54	MS190806-2	.05		.0541	mg/L	108	90	110			
WG481929ICB	ICB	09/18/19 14:56				U	mg/L		-0.0011	0.0011			
WG481929LFB	LFB	09/18/19 14:58	MS190905-3	.05005		.04769	mg/L	95	85	115			
L54546-04AS	AS	09/18/19 15:35	MS190905-3	.05005	U	.05077	mg/L	101	70	130			
L54546-04ASD	ASD	09/18/19 15:41	MS190905-3	.05005	U	.05047	mg/L	101	70	130	1	20	

Chromium, total M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG481798													
WG481798ICV	ICV	09/17/19 12:17	MS190806-2	.05		.04805	mg/L	96	90	110			
WG481798ICB	ICB	09/17/19 12:19				U	mg/L		-0.0015	0.0015			
WG481729LRB	LRB	09/17/19 12:21				U	mg/L		-0.0011	0.0011			
WG481729LFB	LFB	09/17/19 12:22	MS190905-3	.05005		.04857	mg/L	97	85	115			
L54546-05LFM	LFM	09/17/19 13:37	MS190905-3	.05005	U	.04561	mg/L	91	70	130			
L54546-05LFMD	LFMD	09/17/19 13:38	MS190905-3	.05005	U	.04535	mg/L	91	70	130	1	20	

Cobalt, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG481929													
WG481929ICV	ICV	09/18/19 14:54	MS190806-2	.05		.051466	mg/L	103	90	110			
WG481929ICB	ICB	09/18/19 14:56				U	mg/L		-0.00011	0.00011			
WG481929LFB	LFB	09/18/19 14:58	MS190905-3	.05005		.04828	mg/L	96	85	115			
L54546-04AS	AS	09/18/19 15:35	MS190905-3	.05005	.00014	.050393	mg/L	100	70	130			
L54546-04ASD	ASD	09/18/19 15:41	MS190905-3	.05005	.00014	.050669	mg/L	101	70	130	1	20	

Cobalt, total M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG481798													
WG481798ICV	ICV	09/17/19 12:17	MS190806-2	.05		.048634	mg/L	97	90	110			
WG481798ICB	ICB	09/17/19 12:19				U	mg/L		-0.00015	0.00015			
WG481729LRB	LRB	09/17/19 12:21				U	mg/L		-0.00011	0.00011			
WG481729LFB	LFB	09/17/19 12:22	MS190905-3	.05005		.050815	mg/L	102	85	115			
L54546-05LFM	LFM	09/17/19 13:37	MS190905-3	.05005	.04195	.092404	mg/L	101	70	130			
L54546-05LFMD	LFMD	09/17/19 13:38	MS190905-3	.05005	.04195	.091865	mg/L	100	70	130	1	20	

Conductivity @25C SM2510B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG482034													
WG482034LCSW2	LCSW	09/19/19 16:30	PCN59147	1408		1430	umhos/cm	102	90	110			
L54546-02DUP	DUP	09/19/19 20:15			1570	1570	umhos/cm				0	20	
WG482034LCSW5	LCSW	09/19/19 20:22	PCN59147	1408		1420	umhos/cm	101	90	110			
L54554-03DUP	DUP	09/20/19 8:36			1970	1970	umhos/cm				0	20	
WG482034LCSW8	LCSW	09/20/19 11:16	PCN59147	1408		1430	umhos/cm	102	90	110			
WG482034LCSW11	LCSW	09/20/19 16:49	PCN59147	1408		1420	umhos/cm	101	90	110			
WG482034LCSW14	LCSW	09/20/19 20:19	PCN59147	1408		1410	umhos/cm	100	90	110			

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L54546

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Copper, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG481929													
WG481929ICV	ICV	09/18/19 14:54	MS190806-2	.05		.05311	mg/L	106	90	110			
WG481929ICB	ICB	09/18/19 14:56				U	mg/L		-0.00176	0.00176			
WG481929LFB	LFB	09/18/19 14:58	MS190905-3	.0501		.04792	mg/L	96	85	115			
L54546-04AS	AS	09/18/19 15:35	MS190905-3	.0501	.0013	.04963	mg/L	96	70	130			
L54546-04ASD	ASD	09/18/19 15:41	MS190905-3	.0501	.0013	.04916	mg/L	96	70	130	1	20	

Copper, total

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG481798													
WG481798ICV	ICV	09/17/19 12:17	MS190806-2	.05		.04885	mg/L	98	90	110			
WG481798ICB	ICB	09/17/19 12:19				U	mg/L		-0.0024	0.0024			
WG481729LRB	LRB	09/17/19 12:21				U	mg/L		-0.00176	0.00176			
WG481729LFB	LFB	09/17/19 12:22	MS190905-3	.0501		.04791	mg/L	96	85	115			
L54546-05LFM	LFM	09/17/19 13:37	MS190905-3	.0501	.0104	.05808	mg/L	95	70	130			
L54546-05LFMD	LFMD	09/17/19 13:38	MS190905-3	.0501	.0104	.05613	mg/L	91	70	130	3	20	

Fluoride

M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG478241													
WG478241ICV	ICV	07/30/19 12:02	WI190530-11	4.008		4.01	mg/L	100	90	110			
WG478241ICB	ICB	07/30/19 12:20				U	mg/L		-0.05	0.05			
WG481920													
WG481920LFB	LFB	09/18/19 16:23	WI190722-1	1.5		1.48	mg/L	99	90	110			
L54508-01DUP	DUP	09/18/19 16:59			U	U	mg/L				0	20	RA
L54546-01AS	AS	09/18/19 17:35	WI190722-1	15	U	15.2	mg/L	101	90	110			

Iron, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG481805													
WG481805ICV	ICV	09/17/19 20:55	II190916-3	2		1.909	mg/L	95	95	105			
WG481805ICB	ICB	09/17/19 21:01				U	mg/L		-0.09	0.09			
WG481805LFB	LFB	09/17/19 21:13	II190916-2	1.0018		1.048	mg/L	105	85	115			
L54545-02AS	AS	09/17/19 21:32	II190916-2	1.0018	U	1.057	mg/L	106	85	115			
L54545-02ASD	ASD	09/17/19 21:35	II190916-2	1.0018	U	1.091	mg/L	109	85	115	3	20	
L54550-02AS	AS	09/17/19 22:18	II190916-2	1.0018	U	1.022	mg/L	102	85	115			
L54550-02ASD	ASD	09/17/19 22:27	II190916-2	1.0018	U	1.034	mg/L	103	85	115	1	20	

Iron, total

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG482004													
WG482004ICV	ICV	09/19/19 13:04	II190912-1	2		1.924	mg/L	96	95	105			
WG482004ICB	ICB	09/19/19 13:10				U	mg/L		-0.09	0.09			
WG481871LRB	LRB	09/19/19 13:23				U	mg/L		-0.066	0.066			
WG481871LFB	LFB	09/19/19 13:27	II190916-2	1.0018		1.034	mg/L	103	85	115			
L54546-05LFM	LFM	09/19/19 14:32	II2XWATER	2.0022	.27	2.34	mg/L	103	70	130			
L54546-05LFMD	LFMD	09/19/19 14:42	II2XWATER	2.0022	.27	2.326	mg/L	103	70	130	1	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L54546**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Lead, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG481929													
WG481929ICV	ICV	09/18/19 14:54	MS190806-2	.05		05192	mg/L	104	90	110			
WG481929ICB	ICB	09/18/19 14:56				U	mg/L		-0.00022	0.00022			
WG481929LFB	LFB	09/18/19 14:58	MS190905-3	.05005		.04674	mg/L	93	85	115			
L54546-04AS	AS	09/18/19 15:35	MS190905-3	.05005	.0002	05236	mg/L	104	70	130			
L54546-04ASD	ASD	09/18/19 15:41	MS190905-3	.05005	.0002	.05311	mg/L	106	70	130	1	20	

Lead, total M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG481798													
WG481798ICV	ICV	09/17/19 12:17	MS190806-2	.05		.04835	mg/L	97	90	110			
WG481798ICB	ICB	09/17/19 12:19				U	mg/L		-0.0003	0.0003			
WG481729LRB	LRB	09/17/19 12:21				U	mg/L		-0.00022	0.00022			
WG481729LFB	LFB	09/17/19 12:22	MS190905-3	.05005		.04904	mg/L	98	85	115			
L54546-05LFM	LFM	09/17/19 13:37	MS190905-3	.05005	.0009	.05372	mg/L	106	70	130			
L54546-05LFMD	LFMD	09/17/19 13:38	MS190905-3	.05005	.0009	.05295	mg/L	104	70	130	1	20	

Magnesium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG481805													
WG481805ICV	ICV	09/17/19 20:55	II190916-3	100		96.48	mg/L	96	95	105			
WG481805ICB	ICB	09/17/19 21:01				U	mg/L		-0.6	0.6			
WG481805LFB	LFB	09/17/19 21:13	II190916-2	49.99809		49.68	mg/L	99	85	115			
L54546-02AS	AS	09/17/19 21:32	II190916-2	49.99809	4.1	53.55	mg/L	99	85	115			
L54546-02ASD	ASD	09/17/19 21:35	II190916-2	49.99809	4.1	56.13	mg/L	104	85	115	5	20	
L54550-02AS	AS	09/17/19 22:18	II190916-2	49.99809	11.1	59.75	mg/L	97	85	115			
L54550-02ASD	ASD	09/17/19 22:27	II190916-2	49.99809	11.1	59.65	mg/L	97	85	115	0	20	

Magnesium, total M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG482004													
WG482004ICV	ICV	09/19/19 13:04	II190912-1	100		95.94	mg/L	96	95	105			
WG482004ICB	ICB	09/19/19 13:10				U	mg/L		-0.6	0.6			
WG481871LRB	LRB	09/19/19 13:23				U	mg/L		-0.44	0.44			
WG481871LFB	LFB	09/19/19 13:27	II190916-2	49.99809		48.15	mg/L	96	85	115			
L54546-05LFM	LFM	09/19/19 14:32	II2XWATER	100.1149	122	221.8	mg/L	100	70	130			
L54546-05LFMD	LFMD	09/19/19 14:42	II2XWATER	100.1149	122	220.4	mg/L	98	70	130	1	20	

Manganese, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG481805													
WG481805ICV	ICV	09/17/19 20:55	II190916-3	2		1.931	mg/L	97	95	105			
WG481805ICB	ICB	09/17/19 21:01				U	mg/L		-0.03	0.03			
WG481805LFB	LFB	09/17/19 21:13	II190916-2	.5015		.515	mg/L	103	85	115			
L54546-02AS	AS	09/17/19 21:32	II190916-2	.5015	U	.514	mg/L	102	85	115			
L54546-02ASD	ASD	09/17/19 21:35	II190916-2	.5015	U	.527	mg/L	105	85	115	2	20	
L54550-02AS	AS	09/17/19 22:18	II190916-2	.5015	.02	.524	mg/L	100	85	115			
L54550-02ASD	ASD	09/17/19 22:27	II190916-2	.5015	.02	.522	mg/L	100	85	115	0	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L54546

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Manganese, total M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG482004													
WG482004ICV	ICV	09/19/19 13:04	II190912-1	2		1.93	mg/L	97	95	105			
WG482004ICB	ICB	09/19/19 13:10				U	mg/L		-0.03	0.03			
WG481871LRB	LRB	09/19/19 13:23				U	mg/L		-0.022	0.022			
WG481871LFB	LFB	09/19/19 13:27	II190916-2	5015		.508	mg/L	101	85	115			
L54546-05LFM	LFM	09/19/19 14:32	II2XWATER	1	U	1.037	mg/L	104	70	130			
L54546-05LFMD	LFMD	09/19/19 14:42	II2XWATER	1	U	1.035	mg/L	104	70	130	0	20	

Molybdenum, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG481929													
WG481929ICV	ICV	09/18/19 14:54	MS190806-2	.0199		.0208	mg/L	105	90	110			
WG481929ICB	ICB	09/18/19 14:56				U	mg/L		-0.00044	0.00044			
WG481929LFB	LFB	09/18/19 14:58	MS190905-3	.0501		.04591	mg/L	92	85	115			
L54546-04AS	AS	09/18/19 15:35	MS190905-3	.0501	.0014	.05314	mg/L	103	70	130			
L54546-04ASD	ASD	09/18/19 15:41	MS190905-3	.0501	.0014	.05348	mg/L	104	70	130	1	20	

Molybdenum, total M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG481798													
WG481798ICV	ICV	09/17/19 12:17	MS190806-2	.0199		.01983	mg/L	100	90	110			
WG481798ICB	ICB	09/17/19 12:19				U	mg/L		-0.0006	0.0006			
WG481729LRB	LRB	09/17/19 12:21				U	mg/L		-0.00044	0.00044			
WG481729LFB	LFB	09/17/19 12:22	MS190905-3	.0501		.04695	mg/L	94	85	115			
L54546-05LFM	LFM	09/17/19 13:37	MS190905-3	.0501	.1365	.1892	mg/L	105	70	130			
L54546-05LFMD	LFMD	09/17/19 13:38	MS190905-3	.0501	.1365	.18787	mg/L	103	70	130	1	20	

Nickel, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG481805													
WG481805ICV	ICV	09/17/19 20:55	II190916-3	2.004		1.9582	mg/L	98	95	105			
WG481805ICB	ICB	09/17/19 21:01				U	mg/L		-0.024	0.024			
WG481805LFB	LFB	09/17/19 21:13	II190916-2	.501		.5085	mg/L	101	85	115			
L54545-02AS	AS	09/17/19 21:32	II190916-2	.501	U	.4976	mg/L	99	85	115			
L54545-02ASD	ASD	09/17/19 21:35	II190916-2	.501	U	.5072	mg/L	101	85	115	2	20	
L54550-02AS	AS	09/17/19 22:18	II190916-2	.501	U	.4883	mg/L	97	85	115			
L54550-02ASD	ASD	09/17/19 22:27	II190916-2	.501	U	.4823	mg/L	96	85	115	1	20	

Nickel, total M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG482004													
WG482004ICV	ICV	09/19/19 13:04	II190912-1	2.004		1.9243	mg/L	96	95	105			
WG482004ICB	ICB	09/19/19 13:10				U	mg/L		-0.024	0.024			
WG481871LRB	LRB	09/19/19 13:23				U	mg/L		-0.0176	0.0176			
WG481871LFB	LFB	09/19/19 13:27	II190916-2	.501		.4947	mg/L	99	85	115			
L54546-05LFM	LFM	09/19/19 14:32	II2XWATER	.999	.12	1.119	mg/L	100	70	130			
L54546-05LFMD	LFMD	09/19/19 14:42	II2XWATER	.999	.12	1.098	mg/L	98	70	130	2	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L54546**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Nitrate/Nitrite as N

M353.2 - H2SO4 preserved

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG482120													
WG482120ICV	ICV	09/21/19 19:20	WI190809-1	2.416		2.489	mg/L	103	90	110			
WG482120ICB	ICB	09/21/19 19:21				U	mg/L		-0.02	0.02			
WG482123													
WG482123LFB	LFB	09/21/19 23:21	WI190405-9	2		2.04	mg/L	102	90	110			
L54410-01AS	AS	09/21/19 23:23	WI190405-9	2	1.58	3.552	mg/L	99	90	110			
L54425-01DUP	DUP	09/21/19 23:26			U	U	mg/L				0	20	RA
L54546-03AS	AS	09/21/19 23:42	WI190405-9	2	U	2.168	mg/L	108	90	110			
L54546-04DUP	DUP	09/21/19 23:45			.13	.135	mg/L				4	20	RA

Nitrogen, ammonia

M350.1 Auto Salicylate w/gas diffusion

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG481891													
WG481891ICV	ICV	09/18/19 10:58	WI190904-1	12.012		12.101	mg/L	101	90	110			
WG481891ICB	ICB	09/18/19 11:00				U	mg/L		-0.05	0.05			
WG481898													
WG481898LFB1	LFB	09/18/19 12:24	WI180918-3	10		9.578	mg/L	96	90	110			
L54524-02DUP	DUP	09/18/19 12:27			U	U	mg/L				0	20	RA
L54524-03AS	AS	09/18/19 12:30	WI180918-3	10	U	9.51	mg/L	95	90	110			
L54546-05DUP	DUP	09/18/19 12:47			U	U	mg/L				0	20	RA
L54549-01AS	AS	09/18/19 12:50	WI180918-3	10	3.67	14.101	mg/L	104	90	110			
WG481898LFB2	LFB	09/18/19 13:06	WI180918-3	10		9.451	mg/L	95	90	110			

pH (lab)

SM4500H+ B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG482034													
WG482034LCSW1	LCSW	09/19/19 16:28	PCN58053	6		6	units	100	5.9	6.1			
L54546-02DUP	DUP	09/19/19 20:15			8.3	8.3	units				0	20	
WG482034LCSW4	LCSW	09/19/19 20:19	PCN58053	6		6	units	100	5.9	6.1			
L54554-03DUP	DUP	09/20/19 8:36			7.9	7.9	units				0	20	
WG482034LCSW7	LCSW	09/20/19 11:14	PCN58053	6		6	units	100	5.9	6.1			
WG482034LCSW10	LCSW	09/20/19 16:47	PCN58053	6		6	units	100	5.9	6.1			
WG482034LCSW13	LCSW	09/20/19 20:17	PCN58053	6		6	units	100	5.9	6.1			

Phosphorus, total

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG482004													
WG482004ICV	ICV	09/19/19 13:04	II190912-1	5.0075		4.99	mg/L	100	95	105			
WG482004ICB	ICB	09/19/19 13:10				U	mg/L		-0.3	0.3			
WG481871LRB	LRB	09/19/19 13:23				U	mg/L		-0.22	0.22			
WG481871LFB	LFB	09/19/19 13:27	II190916-2	1.004		1.02	mg/L	102	85	115			
L54546-05LFM	LFM	09/19/19 14:32	II2XWATER	2.008	U	2.25	mg/L	112	70	130			
L54546-05LFMD	LFMD	09/19/19 14:42	II2XWATER	2.008	U	2.14	mg/L	107	70	130	5	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L54546

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Potassium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG481805													
WG481805ICV	ICV	09/17/19 20:55	II190916-3	20		19.45	mg/L	97	95	105			
WG481805ICB	ICB	09/17/19 21:01				U	mg/L		-0.6	0.6			
WG481805LFB	LFB	09/17/19 21:13	II190916-2	99.95064		99.62	mg/L	100	85	115			
L54545-02AS	AS	09/17/19 21:32	II190916-2	99.95064	3.4	104.3	mg/L	101	85	115			
L54545-02ASD	ASD	09/17/19 21:35	II190916-2	99.95064	3.4	110.1	mg/L	107	85	115	5	20	
L54550-02AS	AS	09/17/19 22:18	II190916-2	99.95064	15.4	116.7	mg/L	101	85	115			
L54550-02ASD	ASD	09/17/19 22:27	II190916-2	99.95064	15.4	116.5	mg/L	101	85	115	0	20	

Potassium, total M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG482004													
WG482004ICV	ICV	09/19/19 13:04	II190912-1	20		19.24	mg/L	96	95	105			
WG482004ICB	ICB	09/19/19 13:10				U	mg/L		-0.6	0.6			
WG481871LRB	LRB	09/19/19 13:23				U	mg/L		-0.44	0.44			
WG481871LFB	LFB	09/19/19 13:27	II190916-2	99.95064		97.02	mg/L	97	85	115			
L54546-05LFM	LFM	09/19/19 14:32	II2XWATER	200.0188	12.6	210.4	mg/L	99	70	130			
L54546-05LFMD	LFMD	09/19/19 14:42	II2XWATER	200.0188	12.6	211	mg/L	99	70	130	0	20	

Selenium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG481929													
WG481929ICV	ICV	09/18/19 14:54	MS190806-2	.05		.0529	mg/L	106	90	110			
WG481929ICB	ICB	09/18/19 14:56				.00011	mg/L		-0.00022	0.00022			
WG481929LFB	LFB	09/18/19 14:58	MS190905-3	.05005		.04704	mg/L	94	85	115			
L54546-04AS	AS	09/18/19 15:35	MS190905-3	.05005	.0067	.06506	mg/L	117	70	130			
L54546-04ASD	ASD	09/18/19 15:41	MS190905-3	.05005	.0067	.06204	mg/L	111	70	130	5	20	

Selenium, total M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG481798													
WG481798ICV	ICV	09/17/19 12:17	MS190806-2	.05		.04811	mg/L	96	90	110			
WG481798ICB	ICB	09/17/19 12:19				U	mg/L		-0.0003	0.0003			
WG481729LRB	LRB	09/17/19 12:21				.00013	mg/L		-0.00022	0.00022			
WG481729LFB	LFB	09/17/19 12:22	MS190905-3	.05005		.04949	mg/L	99	85	115			
L54546-05LFM	LFM	09/17/19 13:37	MS190905-3	.05005	.0022	.05442	mg/L	104	70	130			
L54546-05LFMD	LFMD	09/17/19 13:38	MS190905-3	.05005	.0022	.05304	mg/L	102	70	130	3	20	

WG481947

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG481947ICV	ICV	09/18/19 18:31	MS190806-2	.05		.04958	mg/L	99	90	110			
WG481947ICB	ICB	09/18/19 18:33				U	mg/L		-0.0003	0.0003			
WG481578LRB	LRB	09/18/19 18:35				U	mg/L		-0.00022	0.00022			
WG481578LFB	LFB	09/18/19 18:37	MS190905-3	.05005		.05009	mg/L	100	85	115			
WG481729LRB	LRB	09/18/19 18:48				U	mg/L		-0.00022	0.00022			
WG481729LFB	LFB	09/18/19 18:53	MS190905-3	.05005		.05066	mg/L	101	85	115			
L54546-05LFM	LFM	09/18/19 19:15	MS190905-3	.05005	.0018	.05312	mg/L	103	70	130			
L54546-05LFMD	LFMD	09/18/19 19:17	MS190905-3	.05005	.0018	.05317	mg/L	103	70	130	0	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L54546**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Silver, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG481929													
WG481929ICV	ICV	09/18/19 14:54	MS190806-2	.02004		.02103	mg/L	105	90	110			
WG481929ICB	ICB	09/18/19 14:56				U	mg/L		-0.00022	0.00022			
WG481929LFB	LFB	09/18/19 14:58	MS190905-3	.01002		.00976	mg/L	97	85	115			
L54546-04AS	AS	09/18/19 15:35	MS190905-3	.01002	U	.0105	mg/L	105	70	130			
L54546-04ASD	ASD	09/18/19 15:41	MS190905-3	.01002	U	.01025	mg/L	102	70	130	2	20	

Silver, total

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG481798													
WG481798ICV	ICV	09/17/19 12:17	MS190806-2	.02004		.02083	mg/L	104	90	110			
WG481798ICB	ICB	09/17/19 12:19				U	mg/L		-0.0003	0.0003			
WG481729LRB	LRB	09/17/19 12:21				U	mg/L		-0.00022	0.00022			
WG481729LFB	LFB	09/17/19 12:22	MS190905-3	.01002		.00992	mg/L	99	85	115			
L54546-05LFM	LFM	09/17/19 13:37	MS190905-3	.01002	U	.00962	mg/L	96	70	130			
L54546-05LFMD	LFMD	09/17/19 13:38	MS190905-3	.01002	U	.00946	mg/L	94	70	130	2	20	

Sodium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG481805													
WG481805ICV	ICV	09/17/19 20:55	II190916-3	100		98.39	mg/L	98	95	105			
WG481805ICB	ICB	09/17/19 21:01				U	mg/L		-0.6	0.6			
WG481805LFB	LFB	09/17/19 21:13	II190916-2	100.0109		100.7	mg/L	101	85	115			
L54545-02AS	AS	09/17/19 21:32	II190916-2	100.0109	6.4	108.4	mg/L	102	85	115			
L54545-02ASD	ASD	09/17/19 21:35	II190916-2	100.0109	6.4	114.7	mg/L	108	85	115	6	20	
L54550-02AS	AS	09/17/19 22:18	II190916-2	100.0109	20.3	122	mg/L	102	85	115			
L54550-02ASD	ASD	09/17/19 22:27	II190916-2	100.0109	20.3	123.1	mg/L	103	85	115	1	20	

Sodium, total

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG482004													
WG482004ICV	ICV	09/19/19 13:04	II190912-1	100		98.71	mg/L	99	95	105			
WG482004ICB	ICB	09/19/19 13:10				U	mg/L		-0.6	0.6			
WG481871LRB	LRB	09/19/19 13:23				U	mg/L		-0.44	0.44			
WG481871LFB	LFB	09/19/19 13:27	II190916-2	100.0109		98.55	mg/L	99	85	115			
L54546-05LFM	LFM	09/19/19 14:32	II2XWATER	200.0124	39.8	240.6	mg/L	100	70	130			
L54546-05LFMD	LFMD	09/19/19 14:42	II2XWATER	200.0124	39.8	241	mg/L	101	70	130	0	20	

Strontium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG481805													
WG481805ICV	ICV	09/17/19 20:55	II190916-3	2		1.946	mg/L	97	95	105			
WG481805ICB	ICB	09/17/19 21:01				U	mg/L		-0.027	0.027			
WG481805LFB	LFB	09/17/19 21:13	II190916-2	.5015		.5097	mg/L	102	85	115			
L54545-02AS	AS	09/17/19 21:32	II190916-2	.5015	.42	.9122	mg/L	98	85	115			
L54545-02ASD	ASD	09/17/19 21:35	II190916-2	.5015	.42	.9543	mg/L	107	85	115	5	20	
L54550-02AS	AS	09/17/19 22:18	II190916-2	.5015	.56	1.04	mg/L	96	85	115			
L54550-02ASD	ASD	09/17/19 22:27	II190916-2	.5015	.56	1.044	mg/L	97	85	115	0	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L54546**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Strontium, total M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG482004													
WG482004ICV	ICV	09/19/19 13:04	II190912-1	2		1.938	mg/L	97	95	105			
WG482004ICB	ICB	09/19/19 13:10				U	mg/L		-0.027	0.027			
WG481871LRB	LRB	09/19/19 13:23				U	mg/L		-0.0198	0.0198			
WG481871LFB	LFB	09/19/19 13:27	II190916-2	.5015		.4943	mg/L	99	85	115			
L54546-05LFM	LFM	09/19/19 14:32	II2XWATER	1.003	48	1.487	mg/L	100	70	130			
L54546-05LFMD	LFMD	09/19/19 14:42	II2XWATER	1.003	48	1.483	mg/L	100	70	130	0	20	

Sulfate M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG478241													
WG478241ICV	ICV	07/30/19 12:02	WI190530-11	50		49.9	mg/L	100	90	110			
WG478241ICB	ICB	07/30/19 12:20				U	mg/L		-0.4	0.4			
WG481920													
WG481920LFB	LFB	09/18/19 16:23	WI190722-1	30		29.3	mg/L	98	90	110			
L54508-01DUP	DUP	09/18/19 16:59			222	222	mg/L				0	20	
L54546-01AS	AS	09/18/19 17:35	WI190722-1	300	680	960	mg/L	93	90	110			

Thallium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG481929													
WG481929ICV	ICV	09/18/19 14:54	MS190806-2	.05		.05289	mg/L	106	90	110			
WG481929ICB	ICB	09/18/19 14:56				U	mg/L		-0.00022	0.00022			
WG481929LFB	LFB	09/18/19 14:58	MS190905-3	.0501		.04675	mg/L	93	85	115			
L54546-04AS	AS	09/18/19 15:35	MS190905-3	.0501	U	.05259	mg/L	105	70	130			
L54546-04ASD	ASD	09/18/19 15:41	MS190905-3	.0501	U	.05296	mg/L	106	70	130	1	20	

Thallium, total M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG481798													
WG481798ICV	ICV	09/17/19 12:17	MS190806-2	.05		.04886	mg/L	98	90	110			
WG481798ICB	ICB	09/17/19 12:19				U	mg/L		-0.0003	0.0003			
WG481729LRB	LRB	09/17/19 12:21				U	mg/L		-0.00022	0.00022			
WG481729LFB	LFB	09/17/19 12:22	MS190905-3	.0501		.0488	mg/L	97	85	115			
L54546-05LFM	LFM	09/17/19 13:37	MS190905-3	.0501	.0029	.05682	mg/L	108	70	130			
L54546-05LFMD	LFMD	09/17/19 13:38	MS190905-3	.0501	.0029	.05591	mg/L	106	70	130	2	20	

Thorium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG481929													
WG481929ICV	ICV	09/18/19 14:54	MS190806-2	.05		.0518	mg/L	104	90	110			
WG481929ICB	ICB	09/18/19 14:56				U	mg/L		-0.0022	0.0022			
WG481929LFB	LFB	09/18/19 14:58	MS190905-3	.05		.0457	mg/L	91	85	115			
L54546-04AS	AS	09/18/19 15:35	MS190905-3	.05	U	.0522	mg/L	104	70	130			
L54546-04ASD	ASD	09/18/19 15:41	MS190905-3	.05	U	.0529	mg/L	106	70	130	1	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L54546**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Thorium, total M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG481798													
WG481798ICV	ICV	09/17/19 12:17	MS190806-2	.05		.049	mg/L	98	90	110			
WG481798ICB	ICB	09/17/19 12:19				U	mg/L		-0.003	0.003			
WG481729LRB	LRB	09/17/19 12:21				U	mg/L		-0.0022	0.0022			
WG481729LFB	LFB	09/17/19 12:22	MS190905-3	.05		.0488	mg/L	98	85	115			
L54546-05LFM	LFM	09/17/19 13:37	MS190905-3	.05	U	.0565	mg/L	113	70	130			
L54546-05LFMD	LFMD	09/17/19 13:38	MS190905-3	.05	U	.0559	mg/L	112	70	130	1	20	

Uranium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG481929													
WG481929ICV	ICV	09/18/19 14:54	MS190806-2	.05		.05293	mg/L	106	90	110			
WG481929ICB	ICB	09/18/19 14:56				U	mg/L		-0.00022	0.00022			
WG481929LFB	LFB	09/18/19 14:58	MS190905-3	.05		.04693	mg/L	94	85	115			
L54546-04AS	AS	09/18/19 15:35	MS190905-3	.05	.0156	.06937	mg/L	108	70	130			
L54546-04ASD	ASD	09/18/19 15:41	MS190905-3	.05	.0156	.07012	mg/L	109	70	130	1	20	

Uranium, total M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG481798													
WG481798ICV	ICV	09/17/19 12:17	MS190806-2	.05		.04868	mg/L	97	90	110			
WG481798ICB	ICB	09/17/19 12:19				U	mg/L		-0.0003	0.0003			
WG481729LRB	LRB	09/17/19 12:21				U	mg/L		-0.00022	0.00022			
WG481729LFB	LFB	09/17/19 12:22	MS190905-3	.05		.04856	mg/L	97	85	115			
L54546-05LFM	LFM	09/17/19 13:37	MS190905-3	.05	.2156	.2702	mg/L	109	70	130			
L54546-05LFMD	LFMD	09/17/19 13:38	MS190905-3	.05	.2156	.2658	mg/L	100	70	130	2	20	

Vanadium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG481929													
WG481929ICV	ICV	09/18/19 14:54	MS190806-2	.05		.05213	mg/L	104	90	110			
WG481929ICB	ICB	09/18/19 14:56				U	mg/L		-0.0011	0.0011			
WG481929LFB	LFB	09/18/19 14:58	MS190905-3	.05		.04835	mg/L	97	85	115			
L54546-04AS	AS	09/18/19 15:35	MS190905-3	.05	U	.05325	mg/L	107	70	130			
L54546-04ASD	ASD	09/18/19 15:41	MS190905-3	.05	U	.05278	mg/L	106	70	130	1	20	

Vanadium, total M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG481798													
WG481798ICV	ICV	09/17/19 12:17	MS190806-2	.05		.04669	mg/L	93	90	110			
WG481798ICB	ICB	09/17/19 12:19				U	mg/L		-0.0015	0.0015			
WG481729LRB	LRB	09/17/19 12:21				U	mg/L		-0.0011	0.0011			
WG481729LFB	LFB	09/17/19 12:22	MS190905-3	.05		.04926	mg/L	99	85	115			
L54546-05LFM	LFM	09/17/19 13:37	MS190905-3	.05	U	.04853	mg/L	97	70	130			
L54546-05LFMD	LFMD	09/17/19 13:38	MS190905-3	.05	U	.04875	mg/L	98	70	130	0	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L54546**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Zinc, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG481805													
WG481805ICV	ICV	09/17/19 20:55	II190916-3	2		1.934	mg/L	97	95	105			
WG481805ICB	ICB	09/17/19 21:01				U	mg/L		-0.03	0.03			
WG481805LFB	LFB	09/17/19 21:13	II190916-2	.50075		.529	mg/L	106	85	115			
L54545-02AS	AS	09/17/19 21:32	II190916-2	.50075	.9	1.348	mg/L	89	85	115			
L54545-02ASD	ASD	09/17/19 21:35	II190916-2	.50075	.9	1.426	mg/L	105	85	115	6	20	
L54550-02AS	AS	09/17/19 22:18	II190916-2	.50075	.02	.519	mg/L	100	85	115			
L54550-02ASD	ASD	09/17/19 22:27	II190916-2	.50075	.02	.529	mg/L	102	85	115	2	20	

Zinc, total

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG482004													
WG482004ICV	ICV	09/19/19 13:04	II190912-1	2		1.945	mg/L	97	95	105			
WG482004ICB	ICB	09/19/19 13:10				U	mg/L		-0.03	0.03			
WG481871LRB	LRB	09/19/19 13:23				U	mg/L		-0.022	0.022			
WG481871LFB	LFB	09/19/19 13:27	II190916-2	.50075		.519	mg/L	104	85	115			
L54546-05LFM	LFM	09/19/19 14:32	II2XWATER	.9884	.2	1.243	mg/L	106	70	130			
L54546-05LFMD	LFMD	09/19/19 14:42	II2XWATER	.9884	.2	1.236	mg/L	105	70	130	1	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L54546**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L54546-01	WG481805	Aluminum, dissolved	M200.7 ICP	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG481920	Bromide	M300.0 - Ion Chromatography	DC	Sample required dilution. Non-target analyte exceeded calibration range.
			M300.0 - Ion Chromatography	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			M300.0 - Ion Chromatography	ZT	Carbonate peak tail extends into Bromide retention time; however, no Bromide peak was observed in the carbonate tail.
		Fluoride	M300.0 - Ion Chromatography	DC	Sample required dilution. Non-target analyte exceeded calibration range.
			M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG482123	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG481898	Nitrogen, ammonia	M350.1 Auto Salicylate w/gas diffusion	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	L54546-02	WG481805	Aluminum, dissolved	M200.7 ICP	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
WG481920		Bromide	M300.0 - Ion Chromatography	DC	Sample required dilution. Non-target analyte exceeded calibration range.
			M300.0 - Ion Chromatography	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			M300.0 - Ion Chromatography	ZT	Carbonate peak tail extends into Bromide retention time; however, no Bromide peak was observed in the carbonate tail.
		Fluoride	M300.0 - Ion Chromatography	DC	Sample required dilution. Non-target analyte exceeded calibration range.
			M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
WG482123		Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
WG481898		Nitrogen, ammonia	M350.1 Auto Salicylate w/gas diffusion	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L54546**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L54546-03	WG481805	Aluminum, dissolved	M200.7 ICP	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG481920	Bromide	M300.0 - Ion Chromatography	DC	Sample required dilution. Non-target analyte exceeded calibration range.
			M300.0 - Ion Chromatography	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			M300.0 - Ion Chromatography	ZT	Carbonate peak tail extends into Bromide retention time; however, no Bromide peak was observed in the carbonate tail.
		Fluoride	M300.0 - Ion Chromatography	DC	Sample required dilution. Non-target analyte exceeded calibration range.
			M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG482123	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG481898	Nitrogen, ammonia	M350.1 Auto Salicylate w/gas diffusion	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	L54546-04	WG481805	Aluminum, dissolved	M200.7 ICP	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
WG481920		Bromide	M300.0 - Ion Chromatography	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			M300.0 - Ion Chromatography	ZT	Carbonate peak tail extends into Bromide retention time; however, no Bromide peak was observed in the carbonate tail.
		Fluoride	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			WG482123	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
WG481898		Nitrogen, ammonia	M350.1 Auto Salicylate w/gas diffusion	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
WG481798		Selenium, total	M200.8 ICP-MS	BB	Target analyte detected in calibration blank at or above acceptance limit. Sample value was > 10X the concentration in the calibration blank.

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L54546**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L54546-06	WG481920	Bromide	M300.0 - Ion Chromatography	DC	Sample required dilution. Non-target analyte exceeded calibration range.
			M300.0 - Ion Chromatography	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			M300.0 - Ion Chromatography	ZT	Carbonate peak tail extends into Bromide retention time; however, no Bromide peak was observed in the carbonate tail.
		Fluoride	M300.0 - Ion Chromatography	DC	Sample required dilution. Non-target analyte exceeded calibration range.
			M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
WG482123	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).	
WG481898	Nitrogen, ammonia	M350.1 Auto Salicylate w/gas diffusion	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).	
WG481871	Total Hot Plate Digestion	M200.2 ICP	DJ	Sample dilution required due to insufficient sample.	

Energy Fuels Resources (USA) Inc.ACZ Project ID: **L54546****Metals Analysis**

The following parameters are not offered for certification or are not covered by AZ certificate #AZ0102.

Bismuth, dissolved	M200.7 ICP
Bismuth, total	M200.7 ICP
Phosphorus, total	M200.7 ICP
Thorium, dissolved	M200.8 ICP-MS
Thorium, total	M200.8 ICP-MS

The following parameters are not offered for certification or are not covered by NELAC certificate #ACZ.

Bismuth, dissolved	M200.7 ICP
Bismuth, total	M200.7 ICP

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L54546
 Date Received: 09/12/2019 12:26
 Received By:
 Date Printed: 9/13/2019

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody form or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?		X	
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody form complete and accurate?	X		
7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples?		X	

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits? ¹	X		
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?	X		

NA indicates Not Applicable

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp (°C)	Temp Criteria (°C)	Rad (µR/Hr)	Custody Seal Intact?
6179	1.2	<=6.0	15	Yes

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L54546
Date Received: 09/12/2019 12:26
Received By:
Date Printed: 9/13/2019

¹ The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na₂S₂O₃ preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).



Laboratories, Inc. L54546

CHAIN of CUSTODY

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Report to:

Name: Kathy Weinel
Company: Energy Fuels Resources
E-mail: kweihel@energyfuels.com

Address: 225 Union Blvd, Suite 600
Lakewood, Co 80228
Telephone:

Copy of Report to:

Name:
Company:

E-mail:
Telephone:

Invoice to:

Name: Kathy Weinel
Company: SAA
E-mail: SAA

Address: SAA
Telephone: SAA

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES [X] NO []

If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analysis, even if HT is expired, and data will be qualified

Are samples for SDWA Compliance Monitoring? Yes [] No [X]

If yes, please include state forms. Results will be reported to PQL for Colorado.

Sampler's Name: Matt Germanson Sampler's Site Information State AZ Zip code 86095 Time Zone AZ

*Sampler's Signature: [Signature] *I attest to the authenticity and validity of this sample. I understand that intentionally mislabeling the time/date/location or tampering with the sample in anyway, is considered fraud and punishable by State Law.

PROJECT INFORMATION

ANALYSIS REQUESTED (attach list or use quote number)

Quote #: USGS Splits 2019
PO#: -
Reporting state for compliance testing: N/A

Check box if samples include NRC licensed material? []

Table with columns: SAMPLE IDENTIFICATION, DATE:TIME, Matrix, # of Containers, and multiple empty columns for analysis results.

Matrix SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

Table for Relinquished and Received information with columns: RELINQUISHED BY, DATE:TIME, RECEIVED BY, DATE:TIME.

54546 Chain of Custody

July 30, 2020

Report to:
Kathy Weinel
Energy Fuels Resources (USA) Inc.
225 Union Blvd. , Suite 600
Lakewood, CO 80228

Bill to:
Accounts Payable
Energy Fuels Resources (USA) Inc.
225 Union Blvd. , Suite 600
Lakewood, CO 80228

Project ID:
ACZ Project ID: L59529

Kathy Weinel:

Enclosed are revised analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on June 10, 2020 and originally reported on July 15, 2020. Refer to the case narrative for an explanation of the changes. This project was assigned to ACZ's project number, L59529. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L59529. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after August 14, 2020. If the samples are determined to be hazardous, additional charges apply for disposal (typically less than \$10/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical reports for five years.

If you have any questions or other needs, please contact your Project Manager.



Max Janicek has reviewed and approved this report.



Energy Fuels Resources (USA) Inc.

July 30, 2020

Project ID:

ACZ Project ID: L59529

Sample Receipt

ACZ Laboratories, Inc. (ACZ) received 3 groundwater samples from Energy Fuels Resources (USA) Inc. on June 10, 2020. The samples were received in good condition. Upon receipt, the sample custodian removed the samples from the cooler, inspected the contents, and logged the samples into ACZ's computerized Laboratory Information Management System (LIMS). The samples were assigned ACZ LIMS project number L59529. The custodian verified the sample information entered into the computer against the chain of custody (COC) forms and sample bottle labels.

Holding Times

All analyses were performed within EPA recommended holding times.

Sample Analysis

These samples were analyzed for inorganic, organic, radiochemistry parameters. The individual methods are referenced on both the ACZ invoice and the analytical reports. The extended qualifier reports may contain footnotes qualifying specific elements due to QC failures. In addition the following has been noted with this specific project:

Due to an ACZ database error, the original final report for this project omitted results for dissolved Gross Alpha. The report was corrected and the final report was revised and sent to the client on 7/30/2020.

Energy Fuels Resources (USA) Inc.

Project ID:

Sample ID: CYN-WELL-2020

ACZ Sample ID: **L59529-03**

Date Sampled: 06/09/20 12:35

Date Received: 06/10/20

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Nitrogen, total Kjeldahl	M351.2 - Block Digestor								06/17/20 12:01	rbt
Total Recoverable Digestion	M200.2 ICP-MS								06/15/20 6:22	enb
Total Recoverable Digestion	M200.2 ICP								06/22/20 11:50	jlw

Energy Fuels Resources (USA) Inc.

Project ID:

Sample ID: CYN-WELL-2020

ACZ Sample ID: **L59529-03**

Date Sampled: 06/09/20 12:35

Date Received: 06/10/20

Sample Matrix: Groundwater

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, total recoverable	M200.7 ICP	1		U		mg/L	0.05	0.3	06/23/20 16:58	jlw
Antimony, total recoverable	M200.8 ICP-MS	1		U		mg/L	0.0004	0.002	06/15/20 19:09	bsu
Arsenic, total recoverable	M200.8 ICP-MS	1	0.0007	B		mg/L	0.0002	0.001	06/15/20 19:09	bsu
Barium, total recoverable	M200.7 ICP	1	0.083			mg/L	0.007	0.04	06/23/20 16:58	jlw
Beryllium, total recoverable	M200.8 ICP-MS	1		U		mg/L	0.00008	0.0003	06/15/20 19:09	bsu
Boron, total recoverable	M200.7 ICP	1	0.04	B		mg/L	0.02	0.1	06/23/20 16:58	jlw
Cadmium, total recoverable	M200.8 ICP-MS	1		U		mg/L	0.00005	0.0003	06/15/20 19:09	bsu
Calcium, total recoverable	M200.7 ICP	1	43.0			mg/L	0.1	0.5	06/23/20 16:58	jlw
Chromium, total recoverable	M200.7 ICP	1	0.14			mg/L	0.01	0.05	06/23/20 16:58	jlw
Cobalt, total recoverable	M200.8 ICP-MS	1	0.00017	B		mg/L	0.00005	0.0003	06/15/20 19:09	bsu
Copper, dissolved	M200.7 ICP	1		U		mg/L	0.01	0.05	06/16/20 9:05	jlw
Copper, total recoverable	M200.7 ICP	1	0.01	B		mg/L	0.01	0.05	06/23/20 16:58	jlw
Iron, dissolved	M200.7 ICP	1		U		mg/L	0.06	0.2	06/16/20 16:04	jlw
Iron, total recoverable	M200.7 ICP	1	1.54			mg/L	0.06	0.2	06/23/20 16:58	jlw
Lead, dissolved	M200.8 ICP-MS	1	0.0001	B		mg/L	0.0001	0.0005	06/22/20 21:27	bsu
Lead, total recoverable	M200.8 ICP-MS	1	0.0021			mg/L	0.0001	0.0005	06/15/20 19:09	bsu
Magnesium, total recoverable	M200.7 ICP	1	29.2			mg/L	0.2	1	06/23/20 16:58	jlw
Manganese, total recoverable	M200.7 ICP	1	0.04	B		mg/L	0.01	0.05	06/23/20 16:58	jlw
Mercury, total	M245.1 CVAA	1		U		mg/L	0.0002	0.001	06/18/20 16:41	slm
Molybdenum, total recoverable	M200.8 ICP-MS	1	0.0011			mg/L	0.0002	0.0005	06/15/20 19:09	bsu
Nickel, total recoverable	M200.7 ICP	1	0.073			mg/L	0.008	0.04	06/23/20 16:58	jlw
Potassium, total recoverable	M200.7 ICP	1	2.4			mg/L	0.2	1	06/23/20 16:58	jlw
Selenium, total recoverable	M200.8 ICP-MS	1	0.0049			mg/L	0.0001	0.0003	06/15/20 19:09	bsu
Silica, total recoverable	M200.7 ICP	1	9.8		*	mg/L	0.2	1	06/23/20 16:58	jlw
Silver, dissolved	M200.8 ICP-MS	1		U		mg/L	0.0001	0.0005	06/22/20 21:27	bsu
Silver, total recoverable	M200.8 ICP-MS	1		U		mg/L	0.0001	0.0005	06/15/20 19:09	bsu
Sodium, total recoverable	M200.7 ICP	1	7.8			mg/L	0.2	1	06/23/20 16:58	jlw
Thallium, total recoverable	M200.8 ICP-MS	1		U		mg/L	0.0001	0.0005	06/15/20 19:09	bsu
Tin, total recoverable	M200.7 ICP	1		U		mg/L	0.04	0.2	06/23/20 16:58	jlw
Uranium, dissolved	M200.8 ICP-MS	1	0.0143			mg/L	0.0001	0.0005	06/22/20 21:27	bsu

Energy Fuels Resources (USA) Inc.

Project ID:
 Sample ID: CYN-WELL-2020

ACZ Sample ID: **L59529-03**
 Date Sampled: 06/09/20 12:35
 Date Received: 06/10/20
 Sample Matrix: Groundwater

Uranium, total recoverable	M200.8 ICP-MS	1	0.015		mg/L	0.0001	0.0005	06/15/20 19:09	bsu
Vanadium, total recoverable	M200.7 ICP	1		U	mg/L	0.01	0.03	06/23/20 16:58	jlw
Zinc, dissolved	M200.7 ICP	1		U	mg/L	0.02	0.05	06/16/20 9:05	jlw
Zinc, total recoverable	M200.7 ICP	1		U	mg/L	0.02	0.05	06/23/20 16:58	jlw

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	220			mg/L	2	20	06/13/20 0:00	emk
Carbonate as CaCO3		1	4.3	B		mg/L	2	20	06/13/20 0:00	emk
Hydroxide as CaCO3		1		U		mg/L	2	20	06/13/20 0:00	emk
Total Alkalinity		1	225		*	mg/L	2	20	06/13/20 0:00	emk
Biochemical Oxygen Demand (5 day)	SM5210B/HACH10360	1		U	*	mg/L	2	2	06/10/20 12:33	eep
Chemical Oxygen Demand	M410 4	1		U	*	mg/L	10	20	06/16/20 14:29	jck
Chloride	M300 0 - Ion Chromatography	1	7.34		*	mg/L	0.4	2	06/23/20 16:47	krh
Conductivity @25C	SM2510B	1	438			umhos/cm	1	10	06/13/20 1:58	emk
Fluoride	M300 0 - Ion Chromatography	1	0.32		*	mg/L	0.05	0.25	06/23/20 16:47	krh
Nitrate/Nitrite as N	M353 2 - H2SO4 preserved	1	0.11			mg/L	0.02	0.1	06/27/20 1:03	pjb
Nitrogen, ammonia	M350.1 Auto Salicylate w/gas diffusion	1		U	*	mg/L	0.05	0.2	06/25/20 11:15	ttg
Nitrogen, organic	M351 2 & M350.1 - TKN minus NH3			U		mg/L	0.2	0.5	07/30/20 0:00	calc
Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	1		U	*	mg/L	0.2	0.5	06/19/20 2:18	rbt
Residue, Filterable (TDS) @180C	SM2540C	1	244			mg/L	20	40	06/11/20 9:53	mlh
Residue, Non-Filterable (TSS) @105C	SM2540D	1		U	*	mg/L	5	20	06/12/20 12:54	mlh
Sulfate	M300 0 - Ion Chromatography	1	19.2			mg/L	0.4	2	06/23/20 16:47	krh
Sulfide as S	SM4500S2-D	1		U	*	mg/L	0.02	0.1	06/12/20 9:30	eep

Arizona license number: **AZ0102**

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L59529

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Alkalinity as CaCO3 SM2320B - Titration

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG499207													
WG499207PBW1	PBW	06/12/20 17:51				2.7	mg/L		-20	20			
WG499207LCSW3	LCSW	06/12/20 18:11	WC200608-1	820.0001		836	mg/L	102	90	110			
WG499207LCSW6	LCSW	06/12/20 21:41	WC200608-1	820.0001		836	mg/L	102	90	110			
WG499207PBW2	PBW	06/12/20 21:51				U	mg/L		-20	20			
L59529-01DUP	DUP	06/13/20 1:09			244	235	mg/L				4	20	
WG499207LCSW9	LCSW	06/13/20 1:29	WC200608-1	820.0001		838	mg/L	102	90	110			
WG499207PBW3	PBW	06/13/20 1:37				3.6	mg/L		-20	20			
L59532-04DUP	DUP	06/13/20 3:34			12.1	12.1	mg/L				0	20	RA
WG499207LCSW12	LCSW	06/13/20 6:08	WC200608-1	820.0001		848	mg/L	103	90	110			
WG499207PBW4	PBW	06/13/20 6:17				U	mg/L		-20	20			
WG499207LCSW15	LCSW	06/13/20 9:43	WC200608-1	820.0001		852	mg/L	104	90	110			

Aluminum, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG499932													
WG499932ICV	ICV	06/23/20 16:26	II200615-1	2		2.025	mg/L	101	95	105			
WG499932ICB	ICB	06/23/20 16:32				U	mg/L		-0.15	0.15			
WG499812LRB	LRB	06/23/20 16:45				U	mg/L		-0.11	0.11			
WG499812LFB	LFB	06/23/20 16:49	II200618-4	1.0012		1.008	mg/L	101	85	115			
L59640-01LFM	LFM	06/23/20 17:08	II200618-4	1.0012	U	1.085	mg/L	108	70	130			
L59640-01LFMD	LFMD	06/23/20 17:11	II200618-4	1.0012	U	1.095	mg/L	109	70	130	1	20	

Antimony, total recoverable M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG499347													
WG499347ICV	ICV	06/15/20 18:45	MS200511-3	.02004		.02049	mg/L	102	90	110			
WG499347ICB	ICB	06/15/20 18:47				U	mg/L		-0.0012	0.0012			
WG499241LRB	LRB	06/15/20 18:49				U	mg/L		-0.00088	0.00088			
WG499241LFB	LFB	06/15/20 18:51	MS200421-3	01		.01084	mg/L	108	85	115			
L59534-01LFM	LFM	06/15/20 19:20	MS200421-3	01	U	.01118	mg/L	112	70	130			
L59534-01LFMD	LFMD	06/15/20 19:26	MS200421-3	01	U	.01108	mg/L	111	70	130	1	20	

Arsenic, total recoverable M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG499347													
WG499347ICV	ICV	06/15/20 18:45	MS200511-3	.05		.05116	mg/L	102	90	110			
WG499347ICB	ICB	06/15/20 18:47				U	mg/L		-0.0006	0.0006			
WG499241LRB	LRB	06/15/20 18:49				U	mg/L		-0.00044	0.00044			
WG499241LFB	LFB	06/15/20 18:51	MS200421-3	.05005		.05033	mg/L	101	85	115			
L59534-01LFM	LFM	06/15/20 19:20	MS200421-3	.05005	.0021	.0503	mg/L	96	70	130			
L59534-01LFMD	LFMD	06/15/20 19:26	MS200421-3	.05005	.0021	.04986	mg/L	95	70	130	1	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L59529

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Barium, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG499932													
WG499932ICV	ICV	06/23/20 16:26	II200615-1	2		1.9572	mg/L	98	95	105			
WG499932ICB	ICB	06/23/20 16:32				U	mg/L		-0.021	0.021			
WG499812LRB	LRB	06/23/20 16:45				U	mg/L		-0.0154	0.0154			
WG499812LFB	LFB	06/23/20 16:49	II200618-4	.5005		.4886	mg/L	98	85	115			
L59640-01LFM	LFM	06/23/20 17:08	II200618-4	.5005	.043	.5367	mg/L	99	70	130			
L59640-01LFMD	LFMD	06/23/20 17:11	II200618-4	.5005	.043	.5364	mg/L	99	70	130	0	20	

Beryllium, total recoverable M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG499347													
WG499347ICV	ICV	06/15/20 18:45	MS200511-3	.05		.050078	mg/L	100	90	110			
WG499347ICB	ICB	06/15/20 18:47				.00008	mg/L		-0.00024	0.00024			
WG499241LRB	LRB	06/15/20 18:49				U	mg/L		-0.000176	0.000176			
WG499241LFB	LFB	06/15/20 18:51	MS200421-3	.05005		.048641	mg/L	97	85	115			
L59534-01LFM	LFM	06/15/20 19:20	MS200421-3	.05005	U	.049228	mg/L	98	70	130			
L59534-01LFMD	LFMD	06/15/20 19:26	MS200421-3	.05005	U	.047215	mg/L	94	70	130	4	20	

Biochemical Oxygen Demand (5 day) SM5210B/HACH10360

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG498993													
WG498993LCSW1	LCSW	06/10/20 12:37	BODLCSW-2	198		164	mg/L	83	84.6	115.4			
WG498993LCSW2	LCSW	06/10/20 12:41	BODLCSW-2	198		175	mg/L	88	84.6	115.4			
WG498993LCSW3	LCSW	06/10/20 12:44	BODLCSW-2	198		187	mg/L	94	84.6	115.4			

Boron, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG499932													
WG499932ICV	ICV	06/23/20 16:26	II200615-1	2		1.992	mg/L	100	95	105			
WG499932ICB	ICB	06/23/20 16:32				U	mg/L		-0.06	0.06			
WG499812LRB	LRB	06/23/20 16:45				U	mg/L		-0.044	0.044			
WG499812LFB	LFB	06/23/20 16:49	II200618-4	.5005		.512	mg/L	102	85	115			
L59640-01LFM	LFM	06/23/20 17:08	II200618-4	.5005	33	.845	mg/L	103	70	130			
L59640-01LFMD	LFMD	06/23/20 17:11	II200618-4	.5005	33	.849	mg/L	104	70	130	0	20	

Cadmium, total recoverable M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG499347													
WG499347ICV	ICV	06/15/20 18:45	MS200511-3	.05		.051419	mg/L	103	90	110			
WG499347ICB	ICB	06/15/20 18:47				U	mg/L		-0.00015	0.00015			
WG499241LRB	LRB	06/15/20 18:49				U	mg/L		-0.00011	0.00011			
WG499241LFB	LFB	06/15/20 18:51	MS200421-3	.05005		.049753	mg/L	99	85	115			
L59534-01LFM	LFM	06/15/20 19:20	MS200421-3	.05005	U	.049165	mg/L	98	70	130			
L59534-01LFMD	LFMD	06/15/20 19:26	MS200421-3	.05005	U	.048613	mg/L	97	70	130	1	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L59529

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Calcium, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG499932													
WG499932ICV	ICV	06/23/20 16:26	II200615-1	100		99.45	mg/L	99	95	105			
WG499932ICB	ICB	06/23/20 16:32				U	mg/L		-0.3	0.3			
WG499812LRB	LRB	06/23/20 16:45				U	mg/L		-0.22	0.22			
WG499812LFB	LFB	06/23/20 16:49	II200618-4	67.9908		68.2	mg/L	100	85	115			
L59640-01LFM	LFM	06/23/20 17:08	II200618-4	67.9908	143	211.6	mg/L	101	70	130			
L59640-01LFMD	LFMD	06/23/20 17:11	II200618-4	67.9908	143	210.8	mg/L	100	70	130	0	20	

Chemical Oxygen Demand M410.4

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG499401													
WG499401ICV	ICV	06/16/20 11:18	WC191025-4	200		198	mg/L	99	90	110			
WG499401ICB	ICB	06/16/20 11:41				U	mg/L		-10	10			
WG499401LRB	LRB	06/16/20 12:05				U	mg/L		-10	10			
WG499401LFB	LFB	06/16/20 12:29	WC200130-3	50		48	mg/L	96	90	110			
L59575-02DUP	DUP	06/16/20 15:41			U	U	mg/L				0	20	RA
L59575-02AS	AS	06/16/20 16:53	WC200130-3	50	U	54	mg/L	108	90	110			

Chloride M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG497614													
WG497614ICV	ICV	05/15/20 14:00	WI200515-2	20.02		20.1	mg/L	100	90	110			
WG497614ICB	ICB	05/15/20 14:18				U	mg/L		-0.4	0.4			
WG499817													
WG499817LFB1	LFB	06/22/20 15:26	WI200302-3	30		30.8	mg/L	103	90	110			
L59516-01DUP	DUP	06/22/20 16:20			1.66	1.66	mg/L				0	20	RA
L59529-01AS	AS	06/22/20 16:56	WI200302-3	150	28.2	175	mg/L	99	90	110			
WG499817LFB2	LFB	06/23/20 0:06	WI200302-3	30		30.8	mg/L	103	90	110			

Chromium, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG499932													
WG499932ICV	ICV	06/23/20 16:26	II200615-1	2		1.956	mg/L	98	95	105			
WG499932ICB	ICB	06/23/20 16:32				U	mg/L		-0.03	0.03			
WG499812LRB	LRB	06/23/20 16:45				U	mg/L		-0.022	0.022			
WG499812LFB	LFB	06/23/20 16:49	II200618-4	.501		.501	mg/L	100	85	115			
L59640-01LFM	LFM	06/23/20 17:08	II200618-4	.501	U	.5	mg/L	100	70	130			
L59640-01LFMD	LFMD	06/23/20 17:11	II200618-4	.501	U	.498	mg/L	99	70	130	0	20	

Cobalt, total recoverable M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG499347													
WG499347ICV	ICV	06/15/20 18:45	MS200511-3	.05		.054618	mg/L	109	90	110			
WG499347ICB	ICB	06/15/20 18:47				U	mg/L		-0.00015	0.00015			
WG499241LRB	LRB	06/15/20 18:49				U	mg/L		-0.00011	0.00011			
WG499241LFB	LFB	06/15/20 18:51	MS200421-3	.05005		.051031	mg/L	102	85	115			
L59534-01LFM	LFM	06/15/20 19:20	MS200421-3	.05005	.00035	.049853	mg/L	99	70	130			
L59534-01LFMD	LFMD	06/15/20 19:26	MS200421-3	.05005	.00035	.049732	mg/L	99	70	130	0	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L59529

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Conductivity @25C SM2510B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG499207													
WG499207LCSW2	LCSW	06/12/20 17:58	PCN61371	1410		1420	umhos/cm	101	90	110			
WG499207LCSW5	LCSW	06/12/20 21:28	PCN61371	1410		1410	umhos/cm	100	90	110			
L59529-01DUP	DUP	06/13/20 1:09			859	856	umhos/cm				0	20	
WG499207LCSW8	LCSW	06/13/20 1:16	PCN61371	1410		1410	umhos/cm	100	90	110			
L59532-04DUP	DUP	06/13/20 3:34			45	45.4	umhos/cm				1	20	
WG499207LCSW11	LCSW	06/13/20 5:54	PCN61371	1410		1400	umhos/cm	99	90	110			
WG499207LCSW14	LCSW	06/13/20 9:30	PCN61371	1410		1390	umhos/cm	99	90	110			

Copper, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG499329													
WG499329ICV	ICV	06/16/20 8:24	II200615-1	2		1.92	mg/L	96	95	105			
WG499329ICB	ICB	06/16/20 8:30				U	mg/L		-0.03	0.03			
WG499329LFB	LFB	06/16/20 8:43	II200526-3	.501		.514	mg/L	103	85	115			
L59529-01AS	AS	06/16/20 8:56	II200526-3	.501	U	.497	mg/L	99	85	115			
L59529-01ASD	ASD	06/16/20 8:59	II200526-3	.501	U	.507	mg/L	101	85	115	2	20	

Copper, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG499932													
WG499932ICV	ICV	06/23/20 16:26	II200615-1	2		1.932	mg/L	97	95	105			
WG499932ICB	ICB	06/23/20 16:32				U	mg/L		-0.03	0.03			
WG499812LRB	LRB	06/23/20 16:45				U	mg/L		-0.022	0.022			
WG499812LFB	LFB	06/23/20 16:49	II200618-4	.501		.495	mg/L	99	85	115			
L59640-01LFM	LFM	06/23/20 17:08	II200618-4	.501	U	.497	mg/L	99	70	130			
L59640-01LFMD	LFMD	06/23/20 17:11	II200618-4	.501	U	.493	mg/L	98	70	130	1	20	

Fluoride M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG497614													
WG497614ICV	ICV	05/15/20 14:00	WI200515-2	4		4.09	mg/L	102	90	110			
WG497614ICB	ICB	05/15/20 14:18				U	mg/L		-0.05	0.05			
WG499817													
WG499817LFB1	LFB	06/22/20 15:26	WI200302-3	1.5		1.61	mg/L	107	90	110			
L59516-01DUP	DUP	06/22/20 16:20			U	U	mg/L				0	20	RA
L59529-01AS	AS	06/22/20 16:56	WI200302-3	7.5	U	7.96	mg/L	106	90	110			
WG499817LFB2	LFB	06/23/20 0:06	WI200302-3	1.5		1.61	mg/L	107	90	110			

Iron, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG499385													
WG499385ICV	ICV	06/16/20 15:24	II200615-1	2		1.944	mg/L	97	95	105			
WG499385ICB	ICB	06/16/20 15:30				U	mg/L		-0.18	0.18			
WG499385LFB	LFB	06/16/20 15:43	II200526-3	1.0018		1.075	mg/L	107	85	115			
L59529-01AS	AS	06/16/20 15:55	II200526-3	1.0018	U	1.079	mg/L	108	85	115			
L59529-01ASD	ASD	06/16/20 15:58	II200526-3	1.0018	U	1.09	mg/L	109	85	115	1	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L59529

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Iron, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG499932													
WG499932ICV	ICV	06/23/20 16:26	II200615-1	2		1.927	mg/L	96	95	105			
WG499932ICB	ICB	06/23/20 16:32				U	mg/L		-0.18	0.18			
WG499812LRB	LRB	06/23/20 16:45				U	mg/L		-0.132	0.132			
WG499812LFB	LFB	06/23/20 16:49	II200618-4	1.0018		1.009	mg/L	101	85	115			
L59640-01LFM	LFM	06/23/20 17:08	II200618-4	1.0018	.12	1.131	mg/L	101	70	130			
L59640-01LFMD	LFMD	06/23/20 17:11	II200618-4	1.0018	.12	1.134	mg/L	101	70	130	0	20	

Lead, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG499864													
WG499864ICV	ICV	06/22/20 20:53	MS200511-3	.05		.05213	mg/L	104	90	110			
WG499864ICB	ICB	06/22/20 20:55				U	mg/L		-0.00022	0.00022			
WG499864LFB	LFB	06/22/20 20:57	MS200421-3	.05005		.051	mg/L	102	85	115			
L58829-06AS	AS	06/22/20 21:04	MS200421-3	.05005	U	.0499	mg/L	100	70	130			
L58829-06ASD	ASD	06/22/20 21:06	MS200421-3	.05005	U	.05359	mg/L	107	70	130	7	20	
L59641-01AS	AS	06/22/20 21:30	MS200421-3	.05005	.0001	.05141	mg/L	103	70	130			
L59641-01ASD	ASD	06/22/20 21:32	MS200421-3	.05005	.0001	.05096	mg/L	102	70	130	1	20	

Lead, total recoverable M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG499347													
WG499347ICV	ICV	06/15/20 18:45	MS200511-3	.05		.05193	mg/L	104	90	110			
WG499347ICB	ICB	06/15/20 18:47				U	mg/L		-0.0003	0.0003			
WG499241LRB	LRB	06/15/20 18:49				U	mg/L		-0.00022	0.00022			
WG499241LFB	LFB	06/15/20 18:51	MS200421-3	.05005		.04946	mg/L	99	85	115			
L59534-01LFM	LFM	06/15/20 19:20	MS200421-3	.05005	0001	.05084	mg/L	101	70	130			
L59534-01LFMD	LFMD	06/15/20 19:26	MS200421-3	.05005	0001	.05023	mg/L	100	70	130	1	20	

Magnesium, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG499932													
WG499932ICV	ICV	06/23/20 16:26	II200615-1	100		97.81	mg/L	98	95	105			
WG499932ICB	ICB	06/23/20 16:32				U	mg/L		-0.6	0.6			
WG499812LRB	LRB	06/23/20 16:45				U	mg/L		-0.44	0.44			
WG499812LFB	LFB	06/23/20 16:49	II200618-4	49.9996		48.13	mg/L	96	85	115			
L59640-01LFM	LFM	06/23/20 17:08	II200618-4	49.9996	89.2	138.7	mg/L	99	70	130			
L59640-01LFMD	LFMD	06/23/20 17:11	II200618-4	49.9996	89.2	138.1	mg/L	98	70	130	0	20	

Manganese, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG499932													
WG499932ICV	ICV	06/23/20 16:26	II200615-1	2		1.924	mg/L	96	95	105			
WG499932ICB	ICB	06/23/20 16:32				U	mg/L		-0.03	0.03			
WG499812LRB	LRB	06/23/20 16:45				U	mg/L		-0.022	0.022			
WG499812LFB	LFB	06/23/20 16:49	II200618-4	.5015		.5	mg/L	100	85	115			
L59640-01LFM	LFM	06/23/20 17:08	II200618-4	.5015	.12	.621	mg/L	100	70	130			
L59640-01LFMD	LFMD	06/23/20 17:11	II200618-4	.5015	.12	.624	mg/L	100	70	130	0	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L59529**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Mercury, total M245.1 CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG499515													
WG499515ICV	ICV	06/18/20 14:24	HG200526-2	.004995		.00493	mg/L	99	95	105			
WG499515ICB	ICB	06/18/20 14:25				U	mg/L		-0.0002	0.0002			
WG499626													
WG499626LRB	LRB	06/18/20 16:37				U	mg/L		-0.00044	0.00044			
WG499626LFB	LFB	06/18/20 16:38	HG200608-4	.002002		.00197	mg/L	98	85	115			
L59529-03LFM	LFM	06/18/20 16:42	HG200608-4	.002002	U	.0019	mg/L	95	85	115			
L59529-03LFMD	LFMD	06/18/20 16:43	HG200608-4	.002002	U	.0019	mg/L	95	85	115	0	20	

Molybdenum, total recoverable M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG499347													
WG499347ICV	ICV	06/15/20 18:45	MS200511-3	.0199		.02045	mg/L	103	90	110			
WG499347ICB	ICB	06/15/20 18:47				U	mg/L		-0.0006	0.0006			
WG499241LRB	LRB	06/15/20 18:49				U	mg/L		-0.00044	0.00044			
WG499241LFB	LFB	06/15/20 18:51	MS200421-3	.0501		.05028	mg/L	100	85	115			
L59534-01LFM	LFM	06/15/20 19:20	MS200421-3	.0501	.001	.05309	mg/L	104	70	130			
L59534-01LFMD	LFMD	06/15/20 19:26	MS200421-3	.0501	.001	.05236	mg/L	103	70	130	1	20	

Nickel, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG499932													
WG499932ICV	ICV	06/23/20 16:26	II200615-1	2		1.9592	mg/L	98	95	105			
WG499932ICB	ICB	06/23/20 16:32				U	mg/L		-0.024	0.024			
WG499812LRB	LRB	06/23/20 16:45				U	mg/L		-0.0176	0.0176			
WG499812LFB	LFB	06/23/20 16:49	II200618-4	.501		.5075	mg/L	101	85	115			
L59640-01LFM	LFM	06/23/20 17:08	II200618-4	.501	U	.4952	mg/L	99	70	130			
L59640-01LFMD	LFMD	06/23/20 17:11	II200618-4	.501	U	.5032	mg/L	100	70	130	2	20	

Nitrate/Nitrite as N M353.2 - H2SO4 preserved

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG500314													
WG500314ICV	ICV	06/26/20 22:55	WI200514-1	2.416		2.333	mg/L	97	90	110			
WG500314ICB	ICB	06/26/20 22:56				U	mg/L		-0.02	0.02			
WG500316													
WG500316LFB	LFB	06/27/20 0:57	WI200331-15	2		1.958	mg/L	98	90	110			
L59529-01AS	AS	06/27/20 0:59	WI200331-15	2	.25	2.259	mg/L	100	90	110			
L59529-02DUP	DUP	06/27/20 1:02			.23	.255	mg/L				10	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L59529**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Nitrogen, ammonia M350.1 Auto Salicylate w/gas diffusion

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG500138													
WG500138ICV	ICV	06/25/20 11:08	WI200327-4	12.012		11.853	mg/L	99	90	110			
WG500138ICB	ICB	06/25/20 11:09				U	mg/L		-0.05	0.05			
WG500138LFB1	LFB	06/25/20 11:11	WI191111-3	10		10.296	mg/L	103	90	110			
WG500138LFB2	LFB	06/25/20 11:53	WI191111-3	10		10.671	mg/L	107	90	110			
L59670-01AS	AS	06/25/20 12:44	WI191111-3	10	U	10.821	mg/L	108	90	110			
L59670-02DUP	DUP	06/25/20 12:47			U	U	mg/L				0	20	RA

Nitrogen, total Kjeldahl M351.2 - TKN by Block Digester

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG499680													
WG499680ICV	ICV	06/19/20 2:02	WI200602-5	4		4.03	mg/L	101	90	110			
WG499680ICB	ICB	06/19/20 2:03				U	mg/L		-0.2	0.2			
WG499382LRB1	LRB	06/19/20 2:05				U	mg/L		-0.2	0.2			
WG499382LFB1	LFB	06/19/20 2:06	WI200602-2	2.5		2.41	mg/L	96	90	110			
L59499-02LFM	LFM	06/19/20 2:08	WI200602-2	2.5	.3	2.67	mg/L	95	90	110			
L59499-03DUP	DUP	06/19/20 2:10			U	U	mg/L				0	20	RA
WG499382LRB2	LRB	06/19/20 2:38				U	mg/L		-0.2	0.2			
WG499382LFB2	LFB	06/19/20 2:39	WI200602-2	2.5		2.5	mg/L	100	90	110			
WG499680ICV1	ICV	06/19/20 3:01	WI200602-5	4		4.18	mg/L	105	90	110			
WG499680ICV2	ICV	06/19/20 3:02	WI200602-5	4		4.19	mg/L	105	90	110			
WG499680ICV3	ICV	06/19/20 3:03	WI200602-5	4		4.09	mg/L	102	90	110			
WG499680ICV4	ICV	06/19/20 3:04	WI200602-5	4		4.07	mg/L	102	90	110			

Potassium, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG499932													
WG499932ICV	ICV	06/23/20 16:26	II200615-1	20		19.89	mg/L	99	95	105			
WG499932ICB	ICB	06/23/20 16:32				U	mg/L		-0.6	0.6			
WG499812LRB	LRB	06/23/20 16:45				U	mg/L		-0.44	0.44			
WG499812LFB	LFB	06/23/20 16:49	II200618-4	99.96847		99.22	mg/L	99	85	115			
L59640-01LFM	LFM	06/23/20 17:08	II200618-4	99.96847	4	105.4	mg/L	101	70	130			
L59640-01LFMD	LFMD	06/23/20 17:11	II200618-4	99.96847	4	105.6	mg/L	102	70	130	0	20	

Residue, Filterable (TDS) @180C SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG499064													
WG499064PBW	PBW	06/11/20 9:05				U	mg/L		-20	20			
WG499064LCSW	LCSW	06/11/20 9:07	PCN60942	1000		992	mg/L	99	80	120			
L59554-01DUP	DUP	06/11/20 10:10			4020	4050	mg/L				1	10	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L59529

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Residue, Non-Filterable (TSS) @105C SM2540D

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG499198													
WG499198PBW	PBW	06/12/20 12:50				U	mg/L		-5	5			
WG499198LCSW	LCSW	06/12/20 12:52	PCN60941	100		90	mg/L	90	80	120			
L59596-02DUP	DUP	06/12/20 13:17			7	8	mg/L				13	10	RA
WG499328													
WG499328PBW	PBW	06/15/20 14:25				U	mg/L		-5	5			
WG499328LCSW	LCSW	06/15/20 14:26	PCN60943	100		90	mg/L	90	80	120			
L59570-02DUP	DUP	06/15/20 14:43			6	11	mg/L				59	10	RA

Selenium, total recoverable M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG499347													
WG499347ICV	ICV	06/15/20 18:45	MS200511-3	.05		.05116	mg/L	102	90	110			
WG499347ICB	ICB	06/15/20 18:47				U	mg/L		-0.0003	0.0003			
WG499241LRB	LRB	06/15/20 18:49				U	mg/L		-0.00022	0.00022			
WG499241LFB	LFB	06/15/20 18:51	MS200421-3	.05		.04846	mg/L	97	85	115			
L59534-01LFM	LFM	06/15/20 19:20	MS200421-3	.05	.0003	.04683	mg/L	93	70	130			
L59534-01LFMD	LFMD	06/15/20 19:26	MS200421-3	.05	.0003	.04584	mg/L	91	70	130	2	20	

Silica, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG499932													
WG499932ICV	ICV	06/23/20 16:26	II200615-1	42.8		42.97	mg/L	100	95	105			
WG499932ICB	ICB	06/23/20 16:32				U	mg/L		-0.6	0.6			
WG499812LRB	LRB	06/23/20 16:45				U	mg/L		-0.44	0.44			
WG499812LFB	LFB	06/23/20 16:49	II200618-4	21.415		21.85	mg/L	102	85	115			
L59640-01LFM	LFM	06/23/20 17:08	II200618-4	21.415	11	33.12	mg/L	103	70	130			
L59640-01LFMD	LFMD	06/23/20 17:11	II200618-4	21.415	11	32.84	mg/L	102	70	130	1	20	

Silver, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG499864													
WG499864ICV	ICV	06/22/20 20:53	MS200511-3	.02004		.01993	mg/L	99	90	110			
WG499864ICB	ICB	06/22/20 20:55				U	mg/L		-0.00022	0.00022			
WG499864LFB	LFB	06/22/20 20:57	MS200421-3	.01002		.00877	mg/L	88	85	115			
L58829-06AS	AS	06/22/20 21:04	MS200421-3	.01002	U	.00865	mg/L	86	70	130			
L58829-06ASD	ASD	06/22/20 21:06	MS200421-3	.01002	U	.00957	mg/L	96	70	130	10	20	
L59641-01AS	AS	06/22/20 21:30	MS200421-3	.01002	U	.00731	mg/L	73	70	130			
L59641-01ASD	ASD	06/22/20 21:32	MS200421-3	.01002	U	.00803	mg/L	80	70	130	9	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L59529**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Silver, total recoverable M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG499347													
WG499347ICV	ICV	06/15/20 18:45	MS200511-3	.02004		.02205	mg/L	110	90	110			
WG499347ICB	ICB	06/15/20 18:47				U	mg/L		-0.0003	0.0003			
WG499241LRB	LRB	06/15/20 18:49				U	mg/L		-0.00022	0.00022			
WG499241LFB	LFB	06/15/20 18:51	MS200421-3	.01002		.01112	mg/L	111	85	115			
L59534-01LFM	LFM	06/15/20 19:20	MS200421-3	.01002	U	.01033	mg/L	103	70	130			
L59534-01LFMD	LFMD	06/15/20 19:26	MS200421-3	.01002	U	.01039	mg/L	104	70	130	1	20	

Sodium, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG499932													
WG499932ICV	ICV	06/23/20 16:26	11200615-1	100		100.03	mg/L	100	95	105			
WG499932ICB	ICB	06/23/20 16:32				U	mg/L		-0.6	0.6			
WG499812LRB	LRB	06/23/20 16:45				U	mg/L		-0.44	0.44			
WG499812LFB	LFB	06/23/20 16:49	11200618-4	100.0157		98.47	mg/L	98	85	115			
L59640-01LFM	LFM	06/23/20 17:08	11200618-4	100.0157	29.9	130.6	mg/L	101	70	130			
L59640-01LFMD	LFMD	06/23/20 17:11	11200618-4	100.0157	29.9	130.5	mg/L	101	70	130	0	20	

Sulfate M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG497614													
WG497614ICV	ICV	05/15/20 14:00	WI200515-2	50		50.8	mg/L	102	90	110			
WG497614ICB	ICB	05/15/20 14:18				U	mg/L		-0.4	0.4			
WG499817													
WG499817LFB1	LFB	06/22/20 15:26	WI200302-3	30		30.5	mg/L	102	90	110			
L59529-01AS	AS	06/22/20 16:56	WI200302-3	150	218	354	mg/L	91	90	110			
WG499817LFB2	LFB	06/23/20 0:06	WI200302-3	30		30.4	mg/L	101	90	110			
L59516-01DUP	DUP	06/23/20 16:29			99.7	99.6	mg/L				0	20	

Sulfide as S SM4500S2-D

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG499166													
WG499166ICV	ICV	06/12/20 9:10	WC200611-4	.344		.327	mg/L	95	90	110			
WG499166ICB	ICB	06/12/20 9:14				U	mg/L		-0.06	0.06			
WG499166LFB1	LFB	06/12/20 9:18	WC200611-7	2017733		.242	mg/L	120	80	120			
L59566-02AS	AS	06/12/20 10:11	WC200611-7	.2017733	U	.098	mg/L	49	75	125			M2
L59566-02DUP	DUP	06/12/20 10:15			U	U	mg/L				0	20	RA
WG499166LFB2	LFB	06/12/20 11:17	WC200611-7	.2017733		.24	mg/L	119	80	120			

Thallium, total recoverable M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG499347													
WG499347ICV	ICV	06/15/20 18:45	MS200511-3	.05		.0513	mg/L	103	90	110			
WG499347ICB	ICB	06/15/20 18:47				U	mg/L		-0.0003	0.0003			
WG499241LRB	LRB	06/15/20 18:49				U	mg/L		-0.00022	0.00022			
WG499241LFB	LFB	06/15/20 18:51	MS200421-3	.0501		.04801	mg/L	96	85	115			
L59534-01LFM	LFM	06/15/20 19:20	MS200421-3	.0501	U	.04968	mg/L	99	70	130			
L59534-01LFMD	LFMD	06/15/20 19:26	MS200421-3	.0501	U	.04933	mg/L	98	70	130	1	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L59529**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Tin, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG499932													
WG499932ICV	ICV	06/23/20 16:26	II200615-1	2		2.012	mg/L	101	95	105			
WG499932ICB	ICB	06/23/20 16:32				U	mg/L		-0.12	0.12			
WG499812LRB	LRB	06/23/20 16:45				U	mg/L		-0.088	0.088			
WG499812LFB	LFB	06/23/20 16:49	II200618-4	1.002		1.005	mg/L	100	85	115			
L59640-01LFM	LFM	06/23/20 17:08	II200618-4	1.002	U	.986	mg/L	98	70	130			
L59640-01LFMD	LFMD	06/23/20 17:11	II200618-4	1.002	U	.986	mg/L	98	70	130	0	20	

Uranium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG499864													
WG499864ICV	ICV	06/22/20 20:53	MS200511-3	.05		.05438	mg/L	109	90	110			
WG499864ICB	ICB	06/22/20 20:55				U	mg/L		-0.00022	0.00022			
WG499864LFB	LFB	06/22/20 20:57	MS200421-3	.05		.05222	mg/L	104	85	115			
L58829-06AS	AS	06/22/20 21:04	MS200421-3	.05	.0006	.05308	mg/L	105	70	130			
L58829-06ASD	ASD	06/22/20 21:06	MS200421-3	.05	.0006	.0572	mg/L	113	70	130	7	20	
L59641-01AS	AS	06/22/20 21:30	MS200421-3	.05	.0225	.07692	mg/L	109	70	130			
L59641-01ASD	ASD	06/22/20 21:32	MS200421-3	.05	.0225	.07643	mg/L	108	70	130	1	20	

Uranium, total recoverable M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG499347													
WG499347ICV	ICV	06/15/20 18:45	MS200511-3	.05		.05352	mg/L	107	90	110			
WG499347ICB	ICB	06/15/20 18:47				U	mg/L		-0.0003	0.0003			
WG499241LRB	LRB	06/15/20 18:49				U	mg/L		-0.00022	0.00022			
WG499241LFB	LFB	06/15/20 18:51	MS200421-3	.05		.05088	mg/L	102	85	115			
L59534-01LFM	LFM	06/15/20 19:20	MS200421-3	.05	U	.05397	mg/L	108	70	130			
L59534-01LFMD	LFMD	06/15/20 19:26	MS200421-3	.05	U	.053	mg/L	106	70	130	2	20	

Vanadium, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG499932													
WG499932ICV	ICV	06/23/20 16:26	II200615-1	2		1.958	mg/L	98	95	105			
WG499932ICB	ICB	06/23/20 16:32				U	mg/L		-0.015	0.015			
WG499812LRB	LRB	06/23/20 16:45				U	mg/L		-0.022	0.022			
WG499812LFB	LFB	06/23/20 16:49	II200618-4	.4995		.4935	mg/L	99	85	115			
L59640-01LFM	LFM	06/23/20 17:08	II200618-4	.4995	U	.4933	mg/L	99	70	130			
L59640-01LFMD	LFMD	06/23/20 17:11	II200618-4	.4995	U	.494	mg/L	99	70	130	0	20	

Zinc, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG499329													
WG499329ICV	ICV	06/16/20 8:24	II200615-1	2		1.93	mg/L	97	95	105			
WG499329ICB	ICB	06/16/20 8:30				U	mg/L		-0.06	0.06			
WG499329LFB	LFB	06/16/20 8:43	II200526-3	.50075		.524	mg/L	105	85	115			
L59529-01AS	AS	06/16/20 8:56	II200526-3	.50075	.46	.925	mg/L	93	85	115			
L59529-01ASD	ASD	06/16/20 8:59	II200526-3	.50075	.46	.952	mg/L	98	85	115	3	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L59529

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Zinc, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG499932													
WG499932ICV	ICV	06/23/20 16:26	II200615-1	2		1.939	mg/L	97	95	105			
WG499932ICB	ICB	06/23/20 16:32				U	mg/L		-0.06	0.06			
WG499812LRB	LRB	06/23/20 16:45				U	mg/L		-0.044	0.044			
WG499812LFB	LFB	06/23/20 16:49	II200618-4	.50075		.499	mg/L	100	85	115			
L59640-01LFM	LFM	06/23/20 17:08	II200618-4	.50075	U	.502	mg/L	100	70	130			
L59640-01LFMD	LFMD	06/23/20 17:11	II200618-4	.50075	U	.504	mg/L	101	70	130	0	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L59529**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L59529-01	WG498993	Biochemical Oxygen Demand (5 day)	SM5210B/HACH10360	K1	The sample dilutions set-up for the BOD/CBOD analysis did not meet the oxygen depletion criteria of at least 2 mg/L. Any reported result is an estimated value.
	WG499401	Chemical Oxygen Demand	M410.4	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG499817	Chloride	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Fluoride	M300.0 - Ion Chromatography	DC	Sample required dilution. Non-target analyte exceeded calibration range.
			M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG500138	Nitrogen, ammonia	M350.1 Auto Salicylate w/gas diffusion	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG499680	Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG499328	Residue, Non-Filterable (TSS) @105C	SM2540D	DJ	Sample dilution required due to insufficient sample.
			SM2540D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			SM2540D	Z3	Sample volume yielded a residue less than 2.5 mg
	WG499932	Silica, total recoverable	M200.7 ICP	ZS	Digestion procedures have the potential to trigger silica polymerization and precipitation, leading to low biased results. Silica chemistry is complex and polymerization kinetics are unpredictable. Dissolved and/or acid soluble silica analyses may provide more accurate measurements.
	WG499166	Sulfide as S	SM4500S2-D	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			SM4500S2-D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L59529**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L59529-02	WG498993	Biochemical Oxygen Demand (5 day)	SM5210B/HACH10360	K1	The sample dilutions set-up for the BOD/CBOD analysis did not meet the oxygen depletion criteria of at least 2 mg/L. Any reported result is an estimated value.
	WG499401	Chemical Oxygen Demand	M410.4	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG499817	Chloride	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Fluoride	M300.0 - Ion Chromatography	DC	Sample required dilution. Non-target analyte exceeded calibration range.
			M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG500138	Nitrogen, ammonia	M350.1 Auto Salicylate w/gas diffusion	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG499680	Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG499328	Residue, Non-Filterable (TSS) @105C	SM2540D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			SM2540D	Z3	Sample volume yielded a residue less than 2.5 mg
	WG499932	Silica, total recoverable	M200.7 ICP	ZS	Digestion procedures have the potential to trigger silica polymerization and precipitation, leading to low biased results. Silica chemistry is complex and polymerization kinetics are unpredictable. Dissolved and/or acid soluble silica analyses may provide more accurate measurements.
	WG499166	Sulfide as S	SM4500S2-D	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			SM4500S2-D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG499207	Total Alkalinity	SM2320B - Titration	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L59529**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L59529-03	WG498993	Biochemical Oxygen Demand (5 day)	SM5210B/HACH10360	K1	The sample dilutions set-up for the BOD/CBOD analysis did not meet the oxygen depletion criteria of at least 2 mg/L. Any reported result is an estimated value.
	WG499401	Chemical Oxygen Demand	M410.4	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG499817	Chloride	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Fluoride	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG500138	Nitrogen, ammonia	M350.1 Auto Salicylate w/gas diffusion	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG499680	Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG499198	Residue, Non-Filterable (TSS) @105C	SM2540D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			SM2540D	Z3	Sample volume yielded a residue less than 2.5 mg
	WG499932	Silica, total recoverable	M200.7 ICP	ZS	Digestion procedures have the potential to trigger silica polymerization and precipitation, leading to low biased results. Silica chemistry is complex and polymerization kinetics are unpredictable. Dissolved and/or acid soluble silica analyses may provide more accurate measurements.
	WG499166	Sulfide as S	SM4500S2-D	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			SM4500S2-D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG499207	Total Alkalinity	SM2320B - Titration	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L59529
 Date Received: 06/10/2020 10:03
 Received By:
 Date Printed: 6/11/2020

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody form or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?		X	
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody form complete and accurate?	X		
7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples? A change was made in the Report to Email section prior to ACZ custody.	X		

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits? ¹	X		
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?	X		

NA indicates Not Applicable

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp (°C)	Temp Criteria (°C)	Rad (µR/Hr)	Custody Seal Intact?
4834	0.3	<=6.0	16	Yes
6627	5.7	<=6.0	13	Yes

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L59529
Date Received: 06/10/2020 10:03
Received By:
Date Printed: 6/11/2020

¹ The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na₂S₂O₃ preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).



Laboratories, Inc. L59529

CHAIN of CUSTODY

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Report to:

Name: Kathy Weinel
Company: Energy Fuels Resources
E-mail: kweinel@energyfuelsresources.com

Address: 225 Union Blvd, Suite 600
Lakewood, CO 80228
Telephone:

Copy of Report to:

Name: Kathy Weinel
Company:

E-mail: SAA
Telephone: SAA

Invoice to:

Name: Kathy Weinel
Company:
E-mail:

Address: SAA
Telephone: SAA

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES [X] NO []

If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

Are samples for SDWA Compliance Monitoring? Yes [] No [X]

If yes, please include state forms. Results will be reported to PQL for Colorado.

Sampler's Name: Matt Germanson Sampler's Site Information State AZ Zip code 86001 Time zone AZ

*Sampler's Signature: [Signature] I attest to the authenticity and validity of this sample. I understand that intentionally mislabeling the time/date/location or tampering with the sample in anyway, is considered fraud and punishable by State Law.

PROJECT INFORMATION

ANALYSES REQUESTED (attach list or use quote number)

Table with columns: Quote #, PO#, Reporting state, Check box, SAMPLE IDENTIFICATION, DATE:TIME, Matrix, # of Containers, and multiple columns for analyses requested. Includes entries for Canyon 2016 with samples like CYN Sump 2020-Q2.

Matrix SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

MARKS

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY: DATE:TIME RECEIVED BY: DATE:TIME

Matt Germanson 6/9/20 13:15 EKM 10/10/20

April 21, 2021

Report to:

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

Bill to:

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

Project ID:

ACZ Project ID: L64813

Kathy Weinel:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on March 18, 2021. This project has been assigned to ACZ's project number, L64813. Please reference this number in all future inquiries.


All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L64813. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after May 21, 2021. If the samples are determined to be hazardous, additional charges apply for disposal (typically \$11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.



**Max Janicek has reviewed and
approved this report.**



Energy Fuels Resources (USA) Inc.
 Project ID:
 Sample ID: PP WELL-2021-Q1

ACZ Sample ID: **L64813-05**
 Date Sampled: 03/17/21 13:12
 Date Received: 03/18/21
 Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Nitrogen, total Kjeldahl	M351 2 - Block Digestor								03/30/21 11:51	md

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, dissolved	M200 8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	03/31/21 16:52	bsu
Arsenic, dissolved	M200 8 ICP-MS	1	0.00021	B	*	mg/L	0.0002	0.001	03/25/21 14:11	mfm
Barium, dissolved	M200 7 ICP	1	0.0845			mg/L	0.007	0.035	03/25/21 16:25	jlw
Beryllium, dissolved	M200 8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	03/25/21 14:11	mfm
Cadmium, dissolved	M200 8 ICP-MS	1	<0.00005	U		mg/L	0.00005	0.00025	03/25/21 14:11	mfm
Calcium, dissolved	M200 7 ICP	1	43.1			mg/L	0.1	0.5	03/25/21 16:25	jlw
Chromium, dissolved	M200 7 ICP	1	<0.01	U		mg/L	0.01	0.05	03/25/21 16:25	jlw
Lead, dissolved	M200 8 ICP-MS	1	0.00030	B		mg/L	0.0001	0.0005	03/25/21 14:11	mfm
Magnesium, dissolved	M200 7 ICP	1	30.2			mg/L	0.2	1	03/25/21 16:25	jlw
Mercury, dissolved	M245 1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	03/29/21 15:23	mlh
Nickel, dissolved	M200 7 ICP	1	0.0083	B		mg/L	0.008	0.04	03/25/21 16:25	jlw
Potassium, dissolved	M200 7 ICP	1	2.09			mg/L	0.2	1	03/25/21 16:25	jlw
Selenium, dissolved	M200 8 ICP-MS	1	0.00508			mg/L	0.0001	0.00025	03/25/21 14:11	mfm
Sodium, dissolved	M200 7 ICP	1	5.68			mg/L	0.2	1	03/25/21 16:25	jlw
Thallium, dissolved	M200 8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	03/25/21 14:11	mfm
Uranium, dissolved	M200 8 ICP-MS	1	0.0135			mg/L	0.0001	0.0005	03/25/21 14:11	mfm

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	213			mg/L	2	20	03/19/21 0:00	eep
Carbonate as CaCO3		1	<2	U		mg/L	2	20	03/19/21 0:00	eep
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	03/19/21 0:00	eep
Total Alkalinity		1	213			mg/L	2	20	03/19/21 0:00	eep
Conductivity @25C	SM2510B	1	430			umhos/cm	1	10	03/19/21 23:54	eep
Cyanide, Free	D6888-09/OIA-1677-09	1	<0.003	U	*	mg/L	0.003	0.01	03/26/21 14:57	wtc
Fluoride	M300 0 - Ion Chromatography	1	0.265		*	mg/L	0.05	0.25	03/26/21 20:54	krh
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2		0.10			mg/L	0.02	0.1	04/21/21 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.101		*	mg/L	0.02	0.1	03/18/21 23:22	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.01	U	*	mg/L	0.01	0.05	03/18/21 23:22	pjb
Nitrogen, total Kjeldahl	M351 2 - TKN by Block Digestor	1	<0.2	U	*	mg/L	0.2	0.5	03/31/21 22:38	pjb
pH (lab)	SM4500H+ B									
pH		1	8.3	H		units	0.1	0.1	03/19/21 0:00	eep
pH measured at		1	21.7			C	0.1	0.1	03/19/21 0:00	eep
Residue, Filterable (TDS) @180C	SM2540C	1	238		*	mg/L	20	40	03/19/21 19:13	jck
Sulfate	M300.0 - Ion Chromatography	1	18.8		*	mg/L	0.4	2	03/26/21 20:54	krh
Total Nitrogen, calc	Calculation: NO3NO2+TKN		0.101	B		mg/L	0.1	0.5	04/21/21 0:00	calc

Energy Fuels Resources (USA) Inc.

Project ID:

Sample ID: PP WELL-2021-Q1

ACZ Sample ID: **L64813-05**

Date Sampled: 03/17/21 13:12

Date Received: 03/18/21

Sample Matrix: Groundwater

Arizona license number: **AZ0102**

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L64813**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Alkalinity as CaCO3 SM2320B - Titration

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516164													
WG516164PBW1	PBW	03/19/21 19:02				2.2	mg/L		-20	20			
WG516164LCSW3	LCSW	03/19/21 19:21	WC210305-1	820.0001		792	mg/L	97	90	110			
WG516164LCSW6	LCSW	03/19/21 22:38	WC210305-1	820.0001		782.5	mg/L	95	90	110			
WG516164PBW2	PBW	03/19/21 22:45				6.3	mg/L		-20	20			
L64814-03DUP	DUP	03/20/21 0:30			52	52.1	mg/L				0	20	
WG516164LCSW9	LCSW	03/20/21 2:04	WC210305-1	820.0001		799.2	mg/L	97	90	110			
WG516164PBW3	PBW	03/20/21 2:12				7.6	mg/L		-20	20			
WG516164LCSW15	LCSW	03/20/21 6:54	WC210305-1	820.0001		801.7	mg/L	98	90	110			

Antimony, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516755													
WG516755ICV	ICV	03/31/21 16:36	MS210330-3	.0201		.0187	mg/L	93	90	110			
WG516755ICB	ICB	03/31/21 16:38				U	mg/L		-0.00088	0.00088			
WG516755LFB	LFB	03/31/21 16:39	MS210312-6	.01		.00967	mg/L	97	85	115			
L64813-03AS	AS	03/31/21 16:47	MS210312-6	.01	.00072	.00973	mg/L	90	70	130			
L64813-03ASD	ASD	03/31/21 16:48	MS210312-6	.01	.00072	.0092	mg/L	85	70	130	6	20	

Arsenic, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516462													
WG516462ICV	ICV	03/25/21 13:52	MS210115-2	.05		.04851	mg/L	97	90	110			
WG516462ICB	ICB	03/25/21 13:53				U	mg/L		-0.00044	0.00044			
WG516462LFB	LFB	03/25/21 13:55	MS210312-6	.05005		.04921	mg/L	98	85	115			
L64813-02AS	AS	03/25/21 14:04	MS210312-6	.05005	.127	.17887	mg/L	104	70	130			
L64813-02ASD	ASD	03/25/21 14:06	MS210312-6	.05005	.127	.16001	mg/L	66	70	130	11	20	MA

Barium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516438													
WG516438ICV	ICV	03/25/21 14:31	II210317-1	2		1.963	mg/L	98	95	105			
WG516438ICB	ICB	03/25/21 14:38				U	mg/L		-0.021	0.021			
WG516438LFB	LFB	03/25/21 14:51	II210319-2	.5		.5078	mg/L	102	85	115			
L64813-03AS	AS	03/25/21 16:16	II210319-2	.5	.0532	.5704	mg/L	103	85	115			
L64813-03ASD	ASD	03/25/21 16:19	II210319-2	.5	.0532	.5649	mg/L	102	85	115	1	20	

Beryllium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516462													
WG516462ICV	ICV	03/25/21 13:52	MS210115-2	.05		.049266	mg/L	99	90	110			
WG516462ICB	ICB	03/25/21 13:53				U	mg/L		-0.000176	0.000176			
WG516462LFB	LFB	03/25/21 13:55	MS210312-6	.05005		.050382	mg/L	101	85	115			
L64813-02AS	AS	03/25/21 14:04	MS210312-6	.05005	U	.050115	mg/L	100	70	130			
L64813-02ASD	ASD	03/25/21 14:06	MS210312-6	.05005	U	.049928	mg/L	100	70	130	0	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L64813**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Cadmium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516462													
WG516462ICV	ICV	03/25/21 13:52	MS210115-2	.05		.052248	mg/L	104	90	110			
WG516462ICB	ICB	03/25/21 13:53				U	mg/L		-0.00011	0.00011			
WG516462LFB	LFB	03/25/21 13:55	MS210312-6	.05005		.050556	mg/L	101	85	115			
L64813-02AS	AS	03/25/21 14:04	MS210312-6	.05005	U	.052808	mg/L	106	70	130			
L64813-02ASD	ASD	03/25/21 14:06	MS210312-6	.05005	U	.049007	mg/L	98	70	130	7	20	

Calcium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516438													
WG516438ICV	ICV	03/25/21 14:31	II210317-1	100		98.08	mg/L	98	95	105			
WG516438ICB	ICB	03/25/21 14:38				U	mg/L		-0.3	0.3			
WG516438LFB	LFB	03/25/21 14:51	II210319-2	68.00934		70.91	mg/L	104	85	115			
L64813-03AS	AS	03/25/21 16:16	II210319-2	68.00934	75	143.1	mg/L	100	85	115			
L64813-03ASD	ASD	03/25/21 16:19	II210319-2	68.00934	75	142.4	mg/L	99	85	115	0	20	

Chromium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516438													
WG516438ICV	ICV	03/25/21 14:31	II210317-1	2		1.977	mg/L	99	95	105			
WG516438ICB	ICB	03/25/21 14:38				U	mg/L		-0.03	0.03			
WG516438LFB	LFB	03/25/21 14:51	II210319-2	.502		.517	mg/L	103	85	115			
L64813-03AS	AS	03/25/21 16:16	II210319-2	.502	U	.516	mg/L	103	85	115			
L64813-03ASD	ASD	03/25/21 16:19	II210319-2	.502	U	.515	mg/L	103	85	115	0	20	

Conductivity @25C SM2510B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516164													
WG516164LCSW2	LCSW	03/19/21 19:09	PCN63121	1410		1451	umhos/cm	103	90	110			
WG516164LCSW5	LCSW	03/19/21 22:26	PCN63121	1410		1436	umhos/cm	102	90	110			
L64814-03DUP	DUP	03/20/21 0:30			427	429	umhos/cm				0	20	
WG516164LCSW8	LCSW	03/20/21 1:51	PCN63121	1410		1430	umhos/cm	101	90	110			
WG516164LCSW11	LCSW	03/20/21 5:20	PCN63121	1410		1405	umhos/cm	100	90	110			
WG516164LCSW14	LCSW	03/20/21 6:40	PCN63121	1410		1394	umhos/cm	99	90	110			

Cyanide, Free D6888-09/OIA-1677-09

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516410													
WG516410ICV1	ICV	03/25/21 13:02	WI210318-16	.3003		.2911	mg/L	97	90	110			
WG516410ICB1	ICB	03/25/21 13:04				U	mg/L		-0.003	0.003			
L58827-46AS	AS	03/25/21 13:12	WI210318-6	.1001	U	.0781	mg/L	78	90	110			MC
L58827-46ASD	ASD	03/25/21 13:14	WI210318-6	.1001	U	.0822	mg/L	82	90	110	5	20	MC
WG516410ICV	ICV	03/26/21 14:41	WI210318-16	.3003		.3196	mg/L	106	90	110			
WG516410ICB	ICB	03/26/21 14:43				U	mg/L		-0.003	0.003			
WG516410LFB	LFB	03/26/21 15:13	WI210318-6	.1001		.1102	mg/L	110	90	110			
L64874-01AS	AS	03/26/21 15:21	WI210318-6	.1001	U	.1066	mg/L	106	90	110			
L64874-01ASD	ASD	03/26/21 15:23	WI210318-6	.1001	U	.1071	mg/L	107	90	110	0	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L64813**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Fluoride M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG514879													
WG514879ICV	ICV	02/23/21 17:29	WI210223-3	4.004		4.189	mg/L	105	90	110			
WG514879ICB	ICB	02/23/21 17:47				U	mg/L		-0.05	0.05			
WG516512													
WG516512LFB1	LFB	03/26/21 17:01	WI201018-4	1.5		1.469	mg/L	98	90	110			
L64811-01DUP	DUP	03/26/21 17:37			U	U	mg/L				0	20	RA
L64812-01AS	AS	03/26/21 18:49	WI201018-4	15	22.8	36.646	mg/L	92	90	110			
WG516512LFB2	LFB	03/27/21 1:41	WI201018-4	1.5		1.476	mg/L	98	90	110			

Lead, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516462													
WG516462ICV	ICV	03/25/21 13:52	MS210115-2	.05		.04878	mg/L	98	90	110			
WG516462ICB	ICB	03/25/21 13:53				U	mg/L		-0.00022	0.00022			
WG516462LFB	LFB	03/25/21 13:55	MS210312-6	.05005		.04833	mg/L	97	85	115			
L64813-02AS	AS	03/25/21 14:04	MS210312-6	.05005	U	.04942	mg/L	99	70	130			
L64813-02ASD	ASD	03/25/21 14:06	MS210312-6	.05005	U	.04974	mg/L	99	70	130	1	20	

Magnesium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516438													
WG516438ICV	ICV	03/25/21 14:31	II210317-1	100		97.97	mg/L	98	95	105			
WG516438ICB	ICB	03/25/21 14:38				U	mg/L		-0.6	0.6			
WG516438LFB	LFB	03/25/21 14:51	II210319-2	50.00226		51.23	mg/L	102	85	115			
L64813-03AS	AS	03/25/21 16:16	II210319-2	50.00226	38.1	88	mg/L	100	85	115			
L64813-03ASD	ASD	03/25/21 16:19	II210319-2	50.00226	38.1	87.74	mg/L	99	85	115	0	20	

Mercury, dissolved M245.1 CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516274													
WG516274ICV	ICV	03/23/21 12:08	HG210316-2	.005		.00501	mg/L	100	95	105			
WG516274ICB	ICB	03/23/21 12:09				U	mg/L		-0.0002	0.0002			
WG516275													
WG516275LRB	LRB	03/23/21 12:47				U	mg/L		-0.00044	0.00044			
WG516275LFB	LFB	03/23/21 12:48	HG210315-3	.002002		.002	mg/L	100	85	115			
L64813-01LFM	LFM	03/23/21 13:04	HG210315-3	.002002	U	.00202	mg/L	101	85	115			
L64813-01LFMD	LFMD	03/23/21 13:05	HG210315-3	.002002	U	.002	mg/L	100	85	115	1	20	
WG516555													
WG516555ICV	ICV	03/29/21 12:08	HG210316-2	.005		.00491	mg/L	98	90	110			
WG516555ICB	ICB	03/29/21 12:09				U	mg/L		-0.0006	0.0006			
WG516547													
WG516547LRB	LRB	03/29/21 15:09				U	mg/L		-0.00044	0.00044			
WG516547LFB	LFB	03/29/21 15:10	HG210326-3	.002002		.00206	mg/L	103	85	115			
L64811-01LFM	LFM	03/29/21 15:11	HG210326-3	.002002	U	.0021	mg/L	105	85	115			
L64811-01LFMD	LFMD	03/29/21 15:12	HG210326-3	.002002	U	.00211	mg/L	105	85	115	0	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L64813**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Nickel, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516438													
WG516438ICV	ICV	03/25/21 14:31	II210317-1	2		1.961	mg/L	98	95	105			
WG516438ICB	ICB	03/25/21 14:38				U	mg/L		-0.024	0.024			
WG516438LFB	LFB	03/25/21 14:51	II210319-2	.502		.5088	mg/L	101	85	115			
L64813-03AS	AS	03/25/21 16:16	II210319-2	.502	.0238	.533	mg/L	101	85	115			
L64813-03ASD	ASD	03/25/21 16:19	II210319-2	.502	.0238	.532	mg/L	101	85	115	0	20	

Nitrate/Nitrite as N, dissolved M353.2 - Automated Cadmium Reduction

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516093													
WG516093ICV	ICV	03/18/21 22:43	WI210302-17	2.416		2.39	mg/L	99	90	110			
WG516093ICB	ICB	03/18/21 22:44				U	mg/L		-0.02	0.02			
WG516093LFB	LFB	03/18/21 22:48	WI201001-11	2		2.012	mg/L	101	90	110			
L64811-04AS	AS	03/18/21 23:10	WI201001-11	2	U	2.013	mg/L	101	90	110			
L64813-01DUP	DUP	03/18/21 23:13			U	U	mg/L				0	20	RA

Nitrite as N, dissolved M353.2 - Automated Cadmium Reduction

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516093													
WG516093ICV	ICV	03/18/21 22:43	WI210302-17	.609		.604	mg/L	99	90	110			
WG516093ICB	ICB	03/18/21 22:44				U	mg/L		-0.01	0.01			
WG516093LFB	LFB	03/18/21 22:48	WI201001-11	1		1.021	mg/L	102	90	110			
L64811-04AS	AS	03/18/21 23:10	WI201001-11	1	U	1.019	mg/L	102	90	110			
L64813-01DUP	DUP	03/18/21 23:13			U	U	mg/L				0	20	RA

Nitrogen, total Kjeldahl M351.2 - TKN by Block Digester

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516767													
WG516767ICV	ICV	03/31/21 22:26	WI210312-8	4		4.11	mg/L	103	90	110			
WG516767ICB	ICB	03/31/21 22:27				U	mg/L		-0.2	0.2			
WG516621LRB	LRB	03/31/21 22:29				U	mg/L		-0.2	0.2			
WG516621LFB	LFB	03/31/21 22:30	WI210204-2	2.5		2.51	mg/L	100	90	110			
L64813-01LFM	LFM	03/31/21 22:32	WI210204-2	2.5	U	2.36	mg/L	94	90	110			
L64813-02DUP	DUP	03/31/21 22:34			U	U	mg/L				0	20	RA

pH (lab) SM4500H+ B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516164													
WG516164LCSW1	LCSW	03/19/21 19:07	PCN61687	6		6	units	100	5.9	6.1			
WG516164LCSW4	LCSW	03/19/21 22:24	PCN61687	6		6.1	units	102	5.9	6.1			
L64814-03DUP	DUP	03/20/21 0:30			8	8	units				0	20	
WG516164LCSW7	LCSW	03/20/21 1:49	PCN61687	6		6.1	units	102	5.9	6.1			
WG516164LCSW13	LCSW	03/20/21 6:39	PCN61687	6		6.1	units	102	5.9	6.1			

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L64813

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Potassium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516438													
WG516438ICV	ICV	03/25/21 14:31	II210317-1	20		19.68	mg/L	98	95	105			
WG516438ICB	ICB	03/25/21 14:38				U	mg/L		-0.6	0.6			
WG516438LFB	LFB	03/25/21 14:51	II210319-2	99.97791		102.7	mg/L	103	85	115			
L64813-03AS	AS	03/25/21 16:16	II210319-2	99.97791	3.94	107.8	mg/L	104	85	115			
L64813-03ASD	ASD	03/25/21 16:19	II210319-2	99.97791	3.94	106.6	mg/L	103	85	115	1	20	

Residue, Filterable (TDS) @180C

SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516171													
WG516171PBW	PBW	03/19/21 18:55				U	mg/L		-20	20			
WG516171LCSW	LCSW	03/19/21 18:57	PCN62902	1000		998	mg/L	100	80	120			
L64816-04DUP	DUP	03/19/21 19:26			3260	3256	mg/L				0	10	

Selenium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516462													
WG516462ICV	ICV	03/25/21 13:52	MS210115-2	.05		.0494	mg/L	99	90	110			
WG516462ICB	ICB	03/25/21 13:53				U	mg/L		-0.00022	0.00022			
WG516462LFB	LFB	03/25/21 13:55	MS210312-6	.05		.04828	mg/L	97	85	115			
L64813-02AS	AS	03/25/21 14:04	MS210312-6	.05	.00014	.05416	mg/L	108	70	130			
L64813-02ASD	ASD	03/25/21 14:06	MS210312-6	.05	.00014	.05218	mg/L	104	70	130	4	20	

Sodium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516438													
WG516438ICV	ICV	03/25/21 14:31	II210317-1	100		97.57	mg/L	98	95	105			
WG516438ICB	ICB	03/25/21 14:38				U	mg/L		-0.6	0.6			
WG516438LFB	LFB	03/25/21 14:51	II210319-2	100.0235		101.6	mg/L	102	85	115			
L64813-03AS	AS	03/25/21 16:16	II210319-2	100.0235	2.52	105.6	mg/L	103	85	115			
L64813-03ASD	ASD	03/25/21 16:19	II210319-2	100.0235	2.52	104.6	mg/L	102	85	115	1	20	

Sulfate

M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG514879													
WG514879ICV	ICV	02/23/21 17:29	WI210223-3	50		52.28	mg/L	105	90	110			
WG514879ICB	ICB	02/23/21 17:47				U	mg/L		-0.4	0.4			
WG516512													
WG516512LFB1	LFB	03/26/21 17:01	WI201018-4	30		30.37	mg/L	101	90	110			
L64811-01DUP	DUP	03/26/21 17:37			3.97	4.08	mg/L				3	20	RA
L64812-01AS	AS	03/26/21 18:49	WI201018-4	300	U	290.95	mg/L	97	90	110			
WG516512LFB2	LFB	03/27/21 1:41	WI201018-4	30		30.08	mg/L	100	90	110			

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L64813**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Thallium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516462													
WG516462ICV	ICV	03/25/21 13:52	MS210115-2	.05		.04783	mg/L	96	90	110			
WG516462ICB	ICB	03/25/21 13:53				U	mg/L		-0.00022	0.00022			
WG516462LFB	LFB	03/25/21 13:55	MS210312-6	.05		.04534	mg/L	91	85	115			
L64813-02AS	AS	03/25/21 14:04	MS210312-6	.05	.00181	.0482	mg/L	93	70	130			
L64813-02ASD	ASD	03/25/21 14:06	MS210312-6	.05	.00181	.04897	mg/L	94	70	130	2	20	

Uranium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516462													
WG516462ICV	ICV	03/25/21 13:52	MS210115-2	.05		.04774	mg/L	95	90	110			
WG516462ICB	ICB	03/25/21 13:53				U	mg/L		-0.00022	0.00022			
WG516462LFB	LFB	03/25/21 13:55	MS210312-6	.05		.04676	mg/L	94	85	115			
L64813-02AS	AS	03/25/21 14:04	MS210312-6	.05	.043	.09371	mg/L	101	70	130			
L64813-02ASD	ASD	03/25/21 14:06	MS210312-6	.05	.043	.09377	mg/L	102	70	130	0	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L64813

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L64813-01	WG516462	Arsenic, dissolved	M200.8 ICP-MS	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
	WG516410	Cyanide, Free	D6888-09/OIA-1677-09	MC	Recovery for matrix spike and matrix spike duplicate are outside of acceptance limits; recovery for the method control sample was acceptable.
	WG516512	Fluoride	M300.0 - Ion Chromatography	DC	Sample required dilution. Non-target analyte exceeded calibration range.
			M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG516093	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	HE	Analysis performed past holding time. Method holding time is less than or equal to 7 days and sample was received with less than half of the holding time remaining (refer to item C5 of ACZ's Terms & Conditions).
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			M353.2 - Automated Cadmium Reduction	HE	Analysis performed past holding time. Method holding time is less than or equal to 7 days and sample was received with less than half of the holding time remaining (refer to item C5 of ACZ's Terms & Conditions).
	WG516767	Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG516767	Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
WG516171	Residue, Filterable (TDS) @180C	SM2540C	N1	See Case Narrative.	
WG516512	Sulfate	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).	
L64813-02	WG516462	Arsenic, dissolved	M200.8 ICP-MS	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
	WG516410	Cyanide, Free	D6888-09/OIA-1677-09	MC	Recovery for matrix spike and matrix spike duplicate are outside of acceptance limits; recovery for the method control sample was acceptable.
	WG516512	Fluoride	M300.0 - Ion Chromatography	DC	Sample required dilution. Non-target analyte exceeded calibration range.
			M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG516093	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	HE	Analysis performed past holding time. Method holding time is less than or equal to 7 days and sample was received with less than half of the holding time remaining (refer to item C5 of ACZ's Terms & Conditions).
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			M353.2 - Automated Cadmium Reduction	HE	Analysis performed past holding time. Method holding time is less than or equal to 7 days and sample was received with less than half of the holding time remaining (refer to item C5 of ACZ's Terms & Conditions).
	WG516767	Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG516767	Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
WG516171	Residue, Filterable (TDS) @180C	SM2540C	N1	See Case Narrative.	
WG516512	Sulfate	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L64813**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L64813-03	WG516462	Arsenic, dissolved	M200.8 ICP-MS	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
	WG516512	Fluoride	M300.0 - Ion Chromatography	DC	Sample required dilution. Non-target analyte exceeded calibration range.
			M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG516093	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	HE	Analysis performed past holding time. Method holding time is less than or equal to 7 days and sample was received with less than half of the holding time remaining (refer to item C5 of ACZ's Terms & Conditions).
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			M353.2 - Automated Cadmium Reduction	HE	Analysis performed past holding time. Method holding time is less than or equal to 7 days and sample was received with less than half of the holding time remaining (refer to item C5 of ACZ's Terms & Conditions).
	WG516767	Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG516767	Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
WG516171	Residue, Filterable (TDS) @180C	SM2540C	N1	See Case Narrative.	
WG516512	Sulfate	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).	
L64813-04	WG516462	Arsenic, dissolved	M200.8 ICP-MS	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
	WG516512	Fluoride	M300.0 - Ion Chromatography	DC	Sample required dilution. Non-target analyte exceeded calibration range.
			M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG516093	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG516767	Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG516767	Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG516171	Residue, Filterable (TDS) @180C	SM2540C	N1	See Case Narrative.
	WG516512	Sulfate	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L64813**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L64813-05	WG516462	Arsenic, dissolved	M200.8 ICP-MS	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
	WG516512	Fluoride	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG516093	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG516767	Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG516171	Residue, Filterable (TDS) @180C	SM2540C	N1	See Case Narrative.
	WG516512	Sulfate	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L64813
 Date Received: 03/18/2021 11:25
 Received By:
 Date Printed: 3/19/2021

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody form or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?		X	
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody form complete and accurate?	X		
7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples?		X	

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits? ¹	X		
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?	X		

NA indicates Not Applicable

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp (°C)	Temp Criteria (°C)	Rad (µR/Hr)	Custody Seal Intact?
6333	1	<=6.0	15	Yes
6891	2.8	<=6.0	15	Yes

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L64813
Date Received: 03/18/2021 11:25
Received By:
Date Printed: 3/19/2021

¹ The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na₂S₂O₃ preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).



Laboratories, Inc.

L 64813

CHAIN of CUSTODY

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Report to:

Name: Kathy Weinel
Company: Energy Fuels Resources
E-mail: kweinel@energyfuels.com

Address: 225 Union Blvd Suite 600
Bakewood, CO 80228
Telephone:

Copy of Report to:

Name:
Company:

E-mail:
Telephone:

Invoice to:

Name:
Company:
E-mail:

Address:
Telephone:

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses?

YES [X]
NO []

If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified

Are samples for SDWA Compliance Monitoring?

Yes [] No [X]

If yes, please include state forms. Results will be reported to PQL for Colorado.

Sampler's Name: Matt Germansen Sampler's Site Information State AZ Zip code 86005 Time Zone AZ

*Sampler's Signature: [Signature]

*I attest to the authenticity and validity of this sample. I understand that intentionally mislabeling the time/date/location or tampering with the sample in anyway, is considered fraud and punishable by State Law.

PROJECT INFORMATION

ANALYSES REQUESTED (attach list or use quote number)

Quote #: Pinyan-Plain-GW

PO#: BO 46882

Reporting state for compliance testing:

Check box if samples include NRC licensed material?

SAMPLE IDENTIFICATION DATE:TIME Matrix

Table with 5 columns: Sample ID, Date:Time, Matrix, # of Containers, and Analysis Results. Rows include CYN-MON-1-2021-Q7, CYN-MON-1-2021-Q1-D, CYN-MON-2-2021-Q1, CYN-MON-3-2021-Q1, and PP Well-2021-Q1.

All samples Field Filtered

Matrix SW (Surface Water) GW (Ground Water) WW (Waste Water) DW (Drinking Water) SL (Sludge) SO (Soil) OL (Oil) Other (Specify)

REMARKS

Normal TAT all samples
see quote Pinyan Plain GW, BO 46882

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:

DATE:TIME

RECEIVED BY:

DATE:TIME

Matt Germansen

3/17/21: 1445

[Signature]

3/18/21 11:26

ACZ Laboratories, Inc.

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Bottle Order Packing List

Account: EFRC/Energy Fuels Resources (USA)
Bottle Order: BO46882
Internal Note: Client field filts

Bill to Account: Bill to ACZ
Ship Date Requested: 03/10/2021
Request Placed at: 03/09/2021 14:04
Service Requested: Ground

Sampling supplies

PACK	Qty	ACZ ID	Type	Description
<input type="checkbox"/>	1	COC	Chain of Custody	Chain of Custody, 1 for 10 samples.
<input type="checkbox"/>	2	SEAL	Custody Seal	Custody seals for cooler, two for each cooler.
<input type="checkbox"/>	1	RETURN	Return Address	Return Address label, one for each cooler.
<input type="checkbox"/>	70	LABELS	Sample Labels	ACZ supplied labels for sample containers
<input type="checkbox"/>		TRIP HG		

Quote number: PINYON-PLAIN-GW

Pinyon Plain GW monitoring

Sample Quantity: 10

Client is responsible for necessary field filtering

PACK	Qty	Type	Size	Filter/Raw/Preserve	Instructions
<input type="checkbox"/>	1	GREEN PC	125 ML	Green pre-cleaned Filtered/Nitric	Metals (dissolved including ICPMS) - Filter sample with .45 micron filter. Do not overfill as there is Nitric Acid in the bottle.
<input type="checkbox"/>	1	PURPLE	250 ML	Raw/NaOH	Cyanide - Do not overfill as there is Sodium Hydroxide in the bottle.
<input type="checkbox"/>	1	RAW	500 ML	Raw	Wet Chemistry (analyses that do not require preservative or filtration) - Completely fill container.
<input type="checkbox"/>	1	RED CUBE	4 L	Raw/Nitric	Radiochemistry (total) - Do not overfill as there is Nitric Acid in the bottle.
<input type="checkbox"/>	1	RED RAD	1000 ML	Raw/Nitric	Radiochemistry (total) - Do not overfill as there is Nitric Acid in the bottle.
<input type="checkbox"/>	1	WHITE	250 ML	Filtered	Wet chemistry (dissolved) - Filter sample with .45 micron filter. Completely fill container.
<input type="checkbox"/>	1	YELLOW	250 ML	Raw/Sulfuric	For total wet chemistry analyses. Do not overfill as there is Sulfuric Acid in the bottle.

June 30, 2021

Report to:

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

Bill to:

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

Project ID:

ACZ Project ID: L66054

Kathy Weinel:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on May 26, 2021. This project has been assigned to ACZ's project number, L66054. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L66054. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after July 30, 2021. If the samples are determined to be hazardous, additional charges apply for disposal (typically \$11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.



Max Janicek has reviewed and approved this report.



Energy Fuels Resources (USA) Inc.

June 30, 2021

Project ID:

ACZ Project ID: L66054

Sample Receipt

ACZ Laboratories, Inc. (ACZ) received 1 groundwater sample from Energy Fuels Resources (USA) Inc. on May 26, 2021. The sample was received in good condition. Upon receipt, the sample custodian removed the sample from the cooler, inspected the contents, and logged the sample into ACZ's computerized Laboratory Information Management System (LIMS). The sample was assigned ACZ LIMS project number L66054. The custodian verified the sample information entered into the computer against the chain of custody (COC) forms and sample bottle labels.

Holding Times

All analyses were performed within EPA recommended holding times.

Sample Analysis

This sample was analyzed for inorganic, radiochemistry parameters. The individual methods are referenced on both the ACZ invoice and the analytical reports. The extended qualifier reports may contain footnotes qualifying specific elements due to QC failures. In addition, the following has been noted with this specific project:

The below is from WG520097

Qualifier: N1

Applies to:

L66054-01/TOTAL DISSOLVED SOLIDS

Oven range is 80 C to 91 C. Over the weekend, the oven had minor high hit out of range for the oven temperature. When the oven temperature was checked on Monday 6/1/21, the max temp read at 92.5C. The WG was removed from the oven on 6/1/21 when the oven was back in range. The WG was examined and there was no splattering of samples.

Energy Fuels Resources (USA) Inc.
Project ID:
Sample ID: PP WELL-2021-Q2

ACZ Sample ID: **L66054-01**
Date Sampled: 05/25/21 11:05
Date Received: 05/26/21
Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Nitrogen, total Kjeldahl	M351 2 - Block Digester								06/21/21 13:09	md

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, dissolved	M200 8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	06/10/21 18:33	bsu
Arsenic, dissolved	M200 8 ICP-MS	1	0.00020	B		mg/L	0.0002	0.001	06/10/21 18:33	bsu
Barium, dissolved	M200 7 ICP	1	0.0879			mg/L	0.007	0.035	06/08/21 17:59	kja
Beryllium, dissolved	M200 8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	06/10/21 18:33	bsu
Cadmium, dissolved	M200 8 ICP-MS	1	<0.00005	U		mg/L	0.00005	0.00025	06/10/21 18:33	bsu
Calcium, dissolved	M200 7 ICP	1	42.2			mg/L	0.1	0.5	06/08/21 17:59	kja
Chromium, dissolved	M200 7 ICP	1	<0.02	U		mg/L	0.02	0.05	06/08/21 17:59	kja
Lead, dissolved	M200 8 ICP-MS	1	0.00049	B		mg/L	0.0001	0.0005	06/10/21 18:33	bsu
Magnesium, dissolved	M200 7 ICP	1	29.1			mg/L	0.2	1	06/08/21 17:59	kja
Mercury, dissolved	M245 1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	05/28/21 11:04	mlh
Nickel, dissolved	M200 7 ICP	1	0.0097	B		mg/L	0.008	0.04	06/08/21 17:59	kja
Potassium, dissolved	M200 7 ICP	1	2.06			mg/L	0.2	1	06/08/21 17:59	kja
Selenium, dissolved	M200 8 ICP-MS	1	0.00530			mg/L	0.0001	0.00025	06/10/21 18:33	bsu
Sodium, dissolved	M200 7 ICP	1	5.54			mg/L	0.2	1	06/08/21 17:59	kja
Thallium, dissolved	M200 8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	06/10/21 18:33	bsu
Uranium, dissolved	M200 8 ICP-MS	1	0.0140			mg/L	0.0001	0.0005	06/10/21 18:33	bsu

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	210			mg/L	2	20	05/28/21 0:00	eep
Carbonate as CaCO3		1	<2	U		mg/L	2	20	05/28/21 0:00	eep
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	05/28/21 0:00	eep
Total Alkalinity		1	210			mg/L	2	20	05/28/21 0:00	eep
Conductivity @25C	SM2510B	1	442			umhos/cm	1	10	05/28/21 0:51	eep
Cyanide, Free	D6888-09/OIA-1677-09	1	<0.003	U	*	mg/L	0.003	0.01	05/27/21 15:05	md
Fluoride	M300 0 - Ion Chromatography	1	0.248	B	*	mg/L	0.05	0.25	06/11/21 16:36	krh
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2		0.09	B		mg/L	0.02	0.1	06/30/21 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.092	B		mg/L	0.02	0.1	05/27/21 0:17	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.01	U	*	mg/L	0.01	0.05	05/27/21 0:17	pjb
Nitrogen, total Kjeldahl	M351 2 - TKN by Block Digester	1	<0.2	U	*	mg/L	0.2	0.5	06/22/21 22:40	pjb
pH (lab)	SM4500H+ B									
pH		1	8.1	H		units	0.1	0.1	05/28/21 0:00	eep
pH measured at		1	20.5			C	0.1	0.1	05/28/21 0:00	eep
Residue, Filterable (TDS) @180C	SM2540C	1	250		*	mg/L	20	40	05/28/21 11:33	scd
Sulfate	M300 0 - Ion Chromatography	1	18.8		*	mg/L	0.4	2	06/11/21 16:36	krh
Total Nitrogen, calc	Calculation: NO3NO2+TKN		<0.1	U		mg/L	0.1	0.5	06/30/21 0:00	calc

Energy Fuels Resources (USA) Inc.
Project ID:
Sample ID: PP WELL-2021-Q2

ACZ Sample ID: **L66054-01**
Date Sampled: 05/25/21 11:05
Date Received: 05/26/21
Sample Matrix: Groundwater

Arizona license number: AZ0102

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L66054**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Alkalinity as CaCO3 SM2320B - Titration

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520049													
WG520049PBW1	PBW	05/27/21 19:07				U	mg/L		-20	20			
WG520049LCSW3	LCSW	05/27/21 19:25	WC210517-8	820.0001		801	mg/L	98	90	110			
WG520049LCSW6	LCSW	05/27/21 22:27	WC210517-8	820.0001		806.9	mg/L	98	90	110			
WG520049PBW2	PBW	05/27/21 22:34				U	mg/L		-20	20			
L66054-01DUP	DUP	05/28/21 1:00			210	211.2	mg/L				1	20	
WG520049LCSW9	LCSW	05/28/21 1:19	WC210517-8	820.0001		807.5	mg/L	98	90	110			
WG520049PBW3	PBW	05/28/21 1:26				U	mg/L		-20	20			
WG520049LCSW12	LCSW	05/28/21 4:25	WC210517-8	820.0001		813.8	mg/L	99	90	110			
WG520049PBW4	PBW	05/28/21 4:32				U	mg/L		-20	20			
WG520049LCSW15	LCSW	05/28/21 8:18	WC210517-8	820.0001		800.6	mg/L	98	90	110			

Antimony, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520825													
WG520825ICV	ICV	06/10/21 18:28	MS210503-1	.0201		.01963	mg/L	98	90	110			
WG520825ICB	ICB	06/10/21 18:30				U	mg/L		-0.00088	0.00088			
WG520825LFB	LFB	06/10/21 18:32	MS210420-3	.01		.00906	mg/L	91	85	115			
L66161-02AS	AS	06/10/21 18:39	MS210420-3	.01	U	.00857	mg/L	86	70	130			
L66161-02ASD	ASD	06/10/21 18:41	MS210420-3	.01	U	.01009	mg/L	101	70	130	16	20	

Arsenic, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520825													
WG520825ICV	ICV	06/10/21 18:28	MS210503-1	.05		.04977	mg/L	100	90	110			
WG520825ICB	ICB	06/10/21 18:30				U	mg/L		-0.00044	0.00044			
WG520825LFB	LFB	06/10/21 18:32	MS210420-3	.05005		.04849	mg/L	97	85	115			
L66161-02AS	AS	06/10/21 18:39	MS210420-3	.05005	U	.04995	mg/L	100	70	130			
L66161-02ASD	ASD	06/10/21 18:41	MS210420-3	.05005	U	.05584	mg/L	112	70	130	11	20	

Barium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520559													
WG520559ICV	ICV	06/08/21 17:36	II210514-2	2		1.9718	mg/L	99	95	105			
WG520559ICB	ICB	06/08/21 17:42				U	mg/L		-0.021	0.021			
WG520559LFB	LFB	06/08/21 17:56	II210601-2	.5		.4837	mg/L	97	85	115			
L66148-03AS	AS	06/08/21 18:12	II210601-2	.5	.0331	.508	mg/L	95	85	115			
L66148-03ASD	ASD	06/08/21 18:15	II210601-2	.5	.0331	.5101	mg/L	95	85	115	0	20	

Beryllium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520825													
WG520825ICV	ICV	06/10/21 18:28	MS210503-1	.05		.046368	mg/L	93	90	110			
WG520825ICB	ICB	06/10/21 18:30				.000119	mg/L		-0.000176	0.000176			
WG520825LFB	LFB	06/10/21 18:32	MS210420-3	.05005		.046635	mg/L	93	85	115			
L66161-02AS	AS	06/10/21 18:39	MS210420-3	.05005	U	.04936	mg/L	99	70	130			
L66161-02ASD	ASD	06/10/21 18:41	MS210420-3	.05005	U	.054826	mg/L	110	70	130	10	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L66054**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Cadmium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520825													
WG520825ICV	ICV	06/10/21 18:28	MS210503-1	.05		.051354	mg/L	103	90	110			
WG520825ICB	ICB	06/10/21 18:30				U	mg/L		-0.00011	0.00011			
WG520825LFB	LFB	06/10/21 18:32	MS210420-3	.05005		.048282	mg/L	96	85	115			
L66181-02AS	AS	06/10/21 18:39	MS210420-3	.05005	U	.049681	mg/L	99	70	130			
L66181-02ASD	ASD	06/10/21 18:41	MS210420-3	.05005	U	.055375	mg/L	111	70	130	11	20	

Calcium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520559													
WG520559ICV	ICV	06/08/21 17:36	II210514-2	100		100.08	mg/L	100	95	105			
WG520559ICB	ICB	06/08/21 17:42				U	mg/L		-0.3	0.3			
WG520559LFB	LFB	06/08/21 17:56	II210601-2	67.98753		67.5	mg/L	99	85	115			
L66148-03AS	AS	06/08/21 18:12	II210601-2	67.98753	12.4	78.89	mg/L	98	85	115			
L66148-03ASD	ASD	06/08/21 18:15	II210601-2	67.98753	12.4	79.32	mg/L	98	85	115	1	20	

Chromium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520559													
WG520559ICV	ICV	06/08/21 17:36	II210514-2	2		1.965	mg/L	99	95	105			
WG520559ICB	ICB	06/08/21 17:42				U	mg/L		-0.06	0.06			
WG520559LFB	LFB	06/08/21 17:56	II210601-2	502		.492	mg/L	98	85	115			
L66148-03AS	AS	06/08/21 18:12	II210601-2	502	U	.492	mg/L	98	85	115			
L66148-03ASD	ASD	06/08/21 18:15	II210601-2	502	U	.494	mg/L	98	85	115	0	20	

Conductivity @25C SM2510B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520049													
WG520049LCSW2	LCSW	05/27/21 19:13	PCN63133	1410		1437	umhos/cm	102	90	110			
WG520049LCSW5	LCSW	05/27/21 22:15	PCN63133	1410		1428	umhos/cm	101	90	110			
L66054-01DUP	DUP	05/28/21 1:00			442	443	umhos/cm				0	20	
WG520049LCSW8	LCSW	05/28/21 1:06	PCN63133	1410		1427	umhos/cm	101	90	110			
WG520049LCSW11	LCSW	05/28/21 4:12	PCN63133	1410		1420	umhos/cm	101	90	110			
WG520049LCSW14	LCSW	05/28/21 8:07	PCN63133	1410		1409	umhos/cm	100	90	110			

Cyanide, Free D6888-09/OIA-1677-09

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519968													
WG519968ICV	ICV	05/27/21 14:47	WI210527-7	.3		.2936	mg/L	98	90	110			
WG519968ICB	ICB	05/27/21 14:49				U	mg/L		-0.003	0.003			
L65933-03AS	AS	05/27/21 14:57	WI210527-5	.1	.0084	.1139	mg/L	106	90	110			
L65933-03ASD	ASD	05/27/21 14:59	WI210527-5	.1	.0084	.1109	mg/L	103	90	110	3	20	
WG519968ICV1	ICV	05/27/21 16:38	WI210527-7	.3		.2961	mg/L	99	90	110			
WG519968ICB1	ICB	05/27/21 16:40				U	mg/L		-0.003	0.003			
WG519968LFB	LFB	05/27/21 16:44	WI210527-5	.1		.0968	mg/L	97	90	110			

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L66054**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Fluoride

M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519281													
WG519281ICV	ICV	05/14/21 17:41	WI210520-6	4.004		4.26	mg/L	106	90	110			
WG519281ICB	ICB	05/14/21 17:59				U	mg/L		-0.05	0.05			
WG520496													
WG520496LFB1	LFB	06/08/21 14:40	WI210329-1	1.5		1.485	mg/L	99	90	110			
L66124-01DUP	DUP	06/08/21 15:33			U	U	mg/L				0	20	RA
L66124-02AS	AS	06/08/21 16:09	WI210329-1	3	U	3.109	mg/L	104	90	110			
WG520496LFB2	LFB	06/08/21 23:19	WI210329-1	1.5		1.476	mg/L	98	90	110			

Lead, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520825													
WG520825ICV	ICV	06/10/21 18:28	MS210503-1	.05		.05062	mg/L	101	90	110			
WG520825ICB	ICB	06/10/21 18:30				.00011	mg/L		-0.00022	0.00022			
WG520825LFB	LFB	06/10/21 18:32	MS210420-3	.05005		.04889	mg/L	98	85	115			
L66161-02AS	AS	06/10/21 18:39	MS210420-3	.05005	U	.04941	mg/L	99	70	130			
L66161-02ASD	ASD	06/10/21 18:41	MS210420-3	.05005	U	.05487	mg/L	110	70	130	10	20	

Magnesium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520559													
WG520559ICV	ICV	06/08/21 17:36	II210514-2	100		98.57	mg/L	99	95	105			
WG520559ICB	ICB	06/08/21 17:42				U	mg/L		-0.6	0.6			
WG520559LFB	LFB	06/08/21 17:56	II210601-2	50.00302		48.22	mg/L	96	85	115			
L66148-03AS	AS	06/08/21 18:12	II210601-2	50.00302	1.03	49.22	mg/L	96	85	115			
L66148-03ASD	ASD	06/08/21 18:15	II210601-2	50.00302	1.03	49.43	mg/L	97	85	115	0	20	

Mercury, dissolved

M245.1 CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520056													
WG520056ICV1	ICV	05/28/21 10:16	HG210329-2	.00501		.00516	mg/L	103	95	105			
WG520056ICB	ICB	05/28/21 10:17				U	mg/L		-0.0002	0.0002			
WG520057													
WG520057LRB	LRB	05/28/21 11:00				U	mg/L		-0.00044	0.00044			
WG520057LFB	LFB	05/28/21 11:01	HG210513-4	.002002		.00199	mg/L	99	85	115			
L66060-01LFM	LFM	05/28/21 13:55	HG210513-4	.002002	U	.00182	mg/L	91	85	115			
L66060-01LFMD	LFMD	05/28/21 13:56	HG210513-4	.002002	U	.00175	mg/L	87	85	115	4	20	

Nickel, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520559													
WG520559ICV	ICV	06/08/21 17:36	II210514-2	2		1.943	mg/L	97	95	105			
WG520559ICB	ICB	06/08/21 17:42				U	mg/L		-0.024	0.024			
WG520559LFB	LFB	06/08/21 17:56	II210601-2	.5		.4802	mg/L	96	85	115			
L66148-03AS	AS	06/08/21 18:12	II210601-2	.5	U	.4806	mg/L	96	85	115			
L66148-03ASD	ASD	06/08/21 18:15	II210601-2	.5	U	.4796	mg/L	96	85	115	0	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L66054**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Nitrate/Nitrite as N, dissolved M353.2 - Automated Cadmium Reduction

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519960													
WG519960ICV	ICV	05/27/21 0:05	WI210302-17	2.416		2.404	mg/L	100	90	110			
WG519960ICB	ICB	05/27/21 0:06				U	mg/L		-0.02	0.02			
WG519960LFB	LFB	05/27/21 0:10	WI210331-13	2		2.018	mg/L	101	90	110			
L66057-02DUP	DUP	05/27/21 0:49			28.5	28.498	mg/L				0	20	
L66057-02AS	AS	05/27/21 0:50	WI210331-13	40	28.5	68 912	mg/L	101	90	110			

Nitrite as N, dissolved M353.2 - Automated Cadmium Reduction

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519960													
WG519960ICV	ICV	05/27/21 0:05	WI210302-17	.609		.633	mg/L	104	90	110			
WG519960ICB	ICB	05/27/21 0:06				U	mg/L		-0.01	0.01			
WG519960LFB	LFB	05/27/21 0:10	WI210331-13	1		1.004	mg/L	100	90	110			
L66057-02DUP	DUP	05/27/21 0:26			194	.193	mg/L				1	20	
L66057-02AS	AS	05/27/21 0:27	WI210331-13	1	194	1.198	mg/L	100	90	110			

Nitrogen, total Kjeldahl M351.2 - TKN by Block Digester

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG521665													
WG521665ICV	ICV	06/22/21 22:27	WI210614-2	4		4.04	mg/L	101	90	110			
WG521665ICB	ICB	06/22/21 22:29				U	mg/L		-0.2	0.2			
WG521467LRB	LRB	06/22/21 22:30				U	mg/L		-0.2	0.2			
WG521467LFB	LFB	06/22/21 22:31	WI210413-6	2.5		2.54	mg/L	102	90	110			
L66197-01LFM	LFM	06/22/21 22:44	WI210413-6	2.5	U	2.36	mg/L	94	90	110			
L66197-02DUP	DUP	06/22/21 22:47			U	U	mg/L				0	20	RA

pH (lab) SM4500H+ B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520049													
WG520049LCSW1	LCSW	05/27/21 19:12	PCN61687	6		6.1	units	102	5.9	6.1			
WG520049LCSW4	LCSW	05/27/21 22:13	PCN61687	6		6.1	units	102	5.9	6.1			
L66054-01DUP	DUP	05/28/21 1:00			8.1	8.2	units				1	20	
WG520049LCSW7	LCSW	05/28/21 1:05	PCN61687	6		6.1	units	102	5.9	6.1			
WG520049LCSW10	LCSW	05/28/21 4:10	PCN61687	6		6.1	units	102	5.9	6.1			
WG520049LCSW13	LCSW	05/28/21 8:05	PCN61687	6		6.1	units	102	5.9	6.1			

Potassium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520559													
WG520559ICV	ICV	06/08/21 17:36	II210514-2	20		19.95	mg/L	100	95	105			
WG520559ICB	ICB	06/08/21 17:42				U	mg/L		-0.6	0.6			
WG520559LFB	LFB	06/08/21 17:56	II210601-2	100.0157		97.26	mg/L	97	85	115			
L66148-03AS	AS	06/08/21 18:12	II210601-2	100.0157	U	97.47	mg/L	97	85	115			
L66148-03ASD	ASD	06/08/21 18:15	II210601-2	100.0157	U	97.91	mg/L	98	85	115	0	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L66054**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Residue, Filterable (TDS) @180C SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520097													
WG520097PBW	PBW	05/28/21 11:05				U	mg/L		-20	20			
WG520097LCSW	LCSW	05/28/21 11:07	PCN63554	1000		984	mg/L	98	80	120			
L66054-01DUP	DUP	05/28/21 11:35			250	250	mg/L				0	10	

Selenium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520825													
WG520825ICV	ICV	06/10/21 18:28	MS210503-1	.05		.05011	mg/L	100	90	110			
WG520825ICB	ICB	06/10/21 18:30				.00014	mg/L		-0.00022	0.00022			
WG520825LFB	LFB	06/10/21 18:32	MS210420-3	.05		.04875	mg/L	98	85	115			
L66161-02AS	AS	06/10/21 18:39	MS210420-3	.05	.00015	.05196	mg/L	104	70	130			
L66161-02ASD	ASD	06/10/21 18:41	MS210420-3	.05	.00015	.05767	mg/L	115	70	130	10	20	

Sodium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520559													
WG520559ICV	ICV	06/08/21 17:36	II210514-2	100		98.72	mg/L	99	95	105			
WG520559ICB	ICB	06/08/21 17:42				U	mg/L		-0.6	0.6			
WG520559LFB	LFB	06/08/21 17:56	II210601-2	100.0605		96.63	mg/L	97	85	115			
L66148-03AS	AS	06/08/21 18:12	II210601-2	100.0605	.42	97	mg/L	97	85	115			
L66148-03ASD	ASD	06/08/21 18:15	II210601-2	100.0605	.42	97.36	mg/L	97	85	115	0	20	

Sulfate M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519281													
WG519281ICV	ICV	05/14/21 17:41	WI210520-6	51.15		51.41	mg/L	101	90	110			
WG519281ICB	ICB	05/14/21 17:59				U	mg/L		-0.4	0.4			
WG520496													
WG520496LFB1	LFB	06/08/21 14:40	WI210329-1	29.97		30.69	mg/L	102	90	110			
L66124-01DUP	DUP	06/08/21 15:33			1.28	1.25	mg/L				2	20	RA
L66124-02AS	AS	06/08/21 16:09	WI210329-1	59.94	49.3	111.72	mg/L	104	90	110			
WG520496LFB2	LFB	06/08/21 23:19	WI210329-1	29.97		30.77	mg/L	103	90	110			

Thallium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520825													
WG520825ICV	ICV	06/10/21 18:28	MS210503-1	.05		.0516	mg/L	103	90	110			
WG520825ICB	ICB	06/10/21 18:30				U	mg/L		-0.00022	0.00022			
WG520825LFB	LFB	06/10/21 18:32	MS210420-3	.05		.04832	mg/L	97	85	115			
L66161-02AS	AS	06/10/21 18:39	MS210420-3	.05	U	.04884	mg/L	98	70	130			
L66161-02ASD	ASD	06/10/21 18:41	MS210420-3	.05	U	.05439	mg/L	109	70	130	11	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L66054**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Uranium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520825													
WG520825ICV	ICV	06/10/21 18:28	MS210503-1	.05		.05051	mg/L	101	90	110			
WG520825ICB	ICB	06/10/21 18:30				U	mg/L		-0.00022	0.00022			
WG520825LFB	LFB	06/10/21 18:32	MS210420-3	.05		.04852	mg/L	97	85	115			
L66161-02AS	AS	06/10/21 18:39	MS210420-3	.05	.00089	.04985	mg/L	98	70	130			
L66161-02ASD	ASD	06/10/21 18:41	MS210420-3	.05	.00089	.05555	mg/L	109	70	130	11	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L66054**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L66054-01	WG520496	Fluoride	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG519960	Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG521665	Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG520097	Residue, Filterable (TDS) @180C	SM2540C	N1	See Case Narrative.
	WG520496	Sulfate	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).

Sample Receipt

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L66054

Date Received: 05/26/2021 12:28

Received By:

Date Printed: 5/27/2021

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody form or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?		X	
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody form complete and accurate?	X		
7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples?	X		

A change was made in the Reprot to: Name and Relinquished by:
 Date:Time section prior to ACZ custody.

A change was made in the Reprot to: Name and Relinquished by:
 Date:Time section prior to ACZ custody.

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits? ¹	X		
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?	X		

NA indicates Not Applicable

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp (°C)	Temp Criteria (°C)	Rad (µR/Hr)	Custody Seal Intact?
3902	0.1	≤6.0	15	Yes

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L66054

Date Received: 05/26/2021 12:28

Received By:

Date Printed: 5/27/2021

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

¹ The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na₂S₂O₃ preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).



Laboratories, Inc. L66054

CHAIN of CUSTODY

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Report to:

Name: Kathy Weinel
Company: Energy Fuels
E-mail: kweinel@energyfuels.com

Address: 225 Union Blvd. Suite 600
Lakewood, CO 80928
Telephone: 303-389-4134

Copy of Report to:

Name:
Company:

E-mail:
Telephone:

Invoice to:

Name: Kathy Weinel
Company: Energy Fuels
E-mail: kweinel@energyfuels.com

Address: 225 Union Blvd, Suite 600
Lakewood, CO 80928
Telephone: 303-389-4134

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES [X] NO []

If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

Are samples for SDWA Compliance Monitoring? Yes [] No [X]

If yes, please include state forms. Results will be reported to PQL for Colorado.

Sampler's Name: Matt Germansen Sampler's Site Information State AZ Zip code Time Zone

*Sampler's Signature: [Signature] I attest to the authenticity and validity of this sample. I understand that intentionally mislabeling the time/date/location or tampering with the sample in anyway, is considered fraud and punishable by State Law.

PROJECT INFORMATION

ANALYSES REQUESTED (attach list or use quote number)

Quote #: Pinyan Plain GW
PO#: 8046882
Reporting state for compliance testing:
Check box if samples include NRC licensed material?

Table with columns for # of Containers and analysis results. Row 1: 7, see Quote

Table with columns for SAMPLE IDENTIFICATION, DATE:TIME, Matrix. Row 1: PP Well-2021-02, 5/25/21: 1105, GW

Matrix SW (Surface Water) - GW (Ground Water) - WW (Waste Water) - DW (Drinking Water) - SL (Sludge) - SO (Soil) - OL (Oil) - Other (Specify)

REMARKS

Normal TAT

All samples field filtered when called for

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

Table with columns: RELINQUISHED BY, DATE:TIME, RECEIVED BY, DATE:TIME. Includes signatures and dates.

66054 Chain of Custody

the 1990s, the number of people who have been employed in the public sector has increased in all countries. The increase has been particularly large in the United States, where the public sector has grown from 15.5% of the total workforce in 1970 to 22.5% in 1995 (see Figure 1).

There are a number of reasons for the increase in public sector employment. One reason is the growth of the welfare state. In many countries, the welfare state has expanded significantly since the 1970s, leading to an increase in public sector employment. Another reason is the growth of the public sector in the service economy. As the service economy has grown, the public sector has also grown, particularly in the areas of education, health care, and social services.

There are also a number of reasons for the increase in public sector employment in the United States. One reason is the growth of the welfare state. In the United States, the welfare state has expanded significantly since the 1970s, leading to an increase in public sector employment. Another reason is the growth of the public sector in the service economy. As the service economy has grown, the public sector has also grown, particularly in the areas of education, health care, and social services.

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September 29, 2021

Report to:
Kathy Weinel
Energy Fuels Resources (USA) Inc.
225 Union Blvd. ,Suite 600
Lakewood, CO 80228

Bill to:
Accounts Payable
Energy Fuels Resources (USA) Inc.
225 Union Blvd. ,Suite 600
Lakewood, CO 80228

Project ID:
ACZ Project ID: L67644

Kathy Weinel:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on August 06, 2021. This project has been assigned to ACZ's project number, L67644. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L67644. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after October 29, 2021. If the samples are determined to be hazardous, additional charges apply for disposal (typically \$11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.



Max Janicek has reviewed and approved this report.



Energy Fuels Resources (USA) Inc.

Project ID:

Sample ID: PP-WELL-2021-Q3

ACZ Sample ID: **L67644-01**

Date Sampled: 08/05/21 00:00

Date Received: 08/06/21

Sample Matrix: Groundwater

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, dissolved	M200 8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	08/20/21 14:28	bsu
Arsenic, dissolved	M200 8 ICP-MS	1	<0.0002	U		mg/L	0.0002	0.001	08/20/21 14:28	bsu
Barium, dissolved	M200 7 ICP	1	0.0865			mg/L	0.007	0.035	08/17/21 16:10	kja
Beryllium, dissolved	M200 8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	08/20/21 14:28	bsu
Cadmium, dissolved	M200 8 ICP-MS	1	<0.00005	U		mg/L	0.00005	0.00025	08/20/21 14:28	bsu
Calcium, dissolved	M200 7 ICP	1	42.6			mg/L	0.1	0.5	08/17/21 16:10	kja
Chromium, dissolved	M200 7 ICP	1	<0.02	U		mg/L	0.02	0.05	08/17/21 16:10	kja
Lead, dissolved	M200 8 ICP-MS	1	0.00026	B		mg/L	0.0001	0.0005	08/20/21 14:28	bsu
Magnesium, dissolved	M200 7 ICP	1	29.1			mg/L	0.2	1	08/17/21 16:10	kja
Mercury, dissolved	M245 1 CVAA	1	<0.0002	U	*	mg/L	0.0002	0.001	08/12/21 13:57	mth
Nickel, dissolved	M200 7 ICP	1	0.0128	B		mg/L	0.008	0.04	08/17/21 16:10	kja
Potassium, dissolved	M200 7 ICP	1	2.31			mg/L	0.2	1	08/17/21 16:10	kja
Selenium, dissolved	M200 8 ICP-MS	1	0.00474			mg/L	0.0001	0.00025	08/20/21 14:28	bsu
Sodium, dissolved	M200 7 ICP	1	5.76			mg/L	0.2	1	08/17/21 16:10	kja
Thallium, dissolved	M200 8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	08/20/21 14:28	bsu
Uranium, dissolved	M200 8 ICP-MS	1	0.0143			mg/L	0.0001	0.0005	08/20/21 14:28	bsu

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	211			mg/L	2	20	08/18/21 0:00	eep
Carbonate as CaCO3		1	<2	U		mg/L	2	20	08/18/21 0:00	eep
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	08/18/21 0:00	eep
Total Alkalinity		1	211			mg/L	2	20	08/18/21 0:00	eep
Conductivity @25C	SM2510B	1	420			umhos/cm	1	10	08/16/21 22:05	jck
Fluoride	SM4500F-C	1	0.68		*	mg/L	0.15	0.35	08/24/21 13:10	eep
Nitrate/Nitrite as N	M353 2 - H2SO4 preserved	1	0.094	B		mg/L	0.02	0.1	08/21/21 1:33	pjb
pH (lab)	SM4500H+ B									
pH		1	8.3	H		units	0.1	0.1	08/18/21 0:00	eep
pH measured at		1	22.6			C	0.1	0.1	08/18/21 0:00	eep
Residue, Filterable (TDS) @180C	SM2540C	1	250			mg/L	20	40	08/11/21 17:17	scd
Sulfate	D516-02/07-11 - TURBIDIMETRIC	1	34.7		*	mg/L	1	5	08/25/21 15:21	wtc

Arizona license number: **AZ0102**

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L67644**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Alkalinity as CaCO3 SM2320B - Titration

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525448													
WG525448PBW1	PBW	08/17/21 20:44				4.4	mg/L		-20	20			
WG525448LCSW3	LCSW	08/17/21 21:04	WC210806-1	820.0001		804.2	mg/L	98	90	110			
WG525448LCSW6	LCSW	08/17/21 23:56	WC210806-1	820.0001		794.3	mg/L	97	90	110			
WG525448PBW2	PBW	08/18/21 0:03				U	mg/L		-20	20			
L67647-03DUP	DUP	08/18/21 2:30			107	121	mg/L				12	20	
WG525448LCSW9	LCSW	08/18/21 3:28	WC210806-1	820.0001		811.8	mg/L	99	90	110			
WG525448PBW3	PBW	08/18/21 3:35				U	mg/L		-20	20			
WG525448LCSW12	LCSW	08/18/21 7:04	WC210806-1	820.0001		819.4	mg/L	100	90	110			
WG525448PBW4	PBW	08/18/21 7:11				U	mg/L		-20	20			
WG525448LCSW15	LCSW	08/18/21 10:02	WC210806-1	820.0001		804.8	mg/L	98	90	110			

Antimony, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525689													
WG525689ICV	ICV	08/20/21 14:17	MS210727-2	.0201		.01893	mg/L	94	90	110			
WG525689ICB	ICB	08/20/21 14:19				U	mg/L		-0.00088	0.00088			
WG525689LFB	LFB	08/20/21 14:21	MS210727-5	.01		.01049	mg/L	105	85	115			
L67677-01AS	AS	08/20/21 14:32	MS210727-5	.01	U	.0082	mg/L	82	70	130			
L67677-01ASD	ASD	08/20/21 14:33	MS210727-5	.01	U	.00974	mg/L	97	70	130	17	20	

Antimony, total recoverable M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525596													
WG525596ICV	ICV	08/19/21 13:17	MS210727-2	.0201		.01996	mg/L	99	90	110			
WG525596ICB	ICB	08/19/21 13:19				U	mg/L		-0.0012	0.0012			
WG525456LRB	LRB	08/19/21 13:21				U	mg/L		-0.00088	0.00088			
WG525456LFB	LFB	08/19/21 13:23	MS210727-5	.01		.01047	mg/L	105	85	115			
L67753-01LFM	LFM	08/19/21 13:32	MS210727-5	.01	U	.01055	mg/L	106	70	130			
L67753-01LFMD	LFMD	08/19/21 13:34	MS210727-5	.01	U	.01033	mg/L	103	70	130	2	20	

Arsenic, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525689													
WG525689ICV	ICV	08/20/21 14:17	MS210727-2	.05		.05136	mg/L	103	90	110			
WG525689ICB	ICB	08/20/21 14:19				U	mg/L		-0.00044	0.00044			
WG525689LFB	LFB	08/20/21 14:21	MS210727-5	.05005		.05224	mg/L	104	85	115			
L67677-01AS	AS	08/20/21 14:32	MS210727-5	.05005	U	.04925	mg/L	98	70	130			
L67677-01ASD	ASD	08/20/21 14:33	MS210727-5	.05005	U	.05474	mg/L	109	70	130	11	20	

Arsenic, total recoverable M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525596													
WG525596ICV	ICV	08/19/21 13:17	MS210727-2	.05		.05091	mg/L	102	90	110			
WG525596ICB	ICB	08/19/21 13:19				U	mg/L		-0.0006	0.0006			
WG525456LRB	LRB	08/19/21 13:21				U	mg/L		-0.00044	0.00044			
WG525456LFB	LFB	08/19/21 13:23	MS210727-5	.05005		.04767	mg/L	95	85	115			
L67753-01LFM	LFM	08/19/21 13:32	MS210727-5	.05005	.00097	.04685	mg/L	92	70	130			
L67753-01LFMD	LFMD	08/19/21 13:34	MS210727-5	.05005	.00097	.04633	mg/L	91	70	130	1	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L67644**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Barium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525425													
WG525425ICV	ICV	08/17/21 15:48	II210803-4	2		2.03	mg/L	102	95	105			
WG525425ICB	ICB	08/17/21 15:54				U	mg/L		-0.021	0.021			
WG525425LFB	LFB	08/17/21 16:06	II210810-2	.5		5047	mg/L	101	85	115			
L67781-01AS	AS	08/17/21 16:16	II210810-2	.5	039	5368	mg/L	100	85	115			
L67781-01ASD	ASD	08/17/21 16:19	II210810-2	.5	039	.5418	mg/L	101	85	115	1	20	

Barium, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525473													
WG525473ICV	ICV	08/18/21 9:38	II210803-4	2		1.9972	mg/L	100	95	105			
WG525473ICB	ICB	08/18/21 9:44				U	mg/L		-0.021	0.021			
WG525376LRB	LRB	08/18/21 9:56				U	mg/L		-0.0154	0.0154			
WG525376LFB	LFB	08/18/21 9:59	II210810-2	.5		.4842	mg/L	97	85	115			
L67644-03LFM	LFM	08/18/21 10:45	II210810-2	.5	.0256	.5175	mg/L	98	70	130			
L67644-03LFMD	LFMD	08/18/21 10:48	II210810-2	.5	.0256	.5226	mg/L	99	70	130	1	20	
L67740-05LFM	LFM	08/18/21 11:16	II210810-2	.5	.105	.621	mg/L	103	70	130			
L67740-05LFMD	LFMD	08/18/21 11:19	II210810-2	.5	.105	.6222	mg/L	103	70	130	0	20	

Beryllium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525689													
WG525689ICV	ICV	08/20/21 14:17	MS210727-2	.05		.051494	mg/L	103	90	110			
WG525689ICB	ICB	08/20/21 14:19				U	mg/L		-0.000176	0.000176			
WG525689LFB	LFB	08/20/21 14:21	MS210727-5	.05005		.051897	mg/L	104	85	115			
L67677-01AS	AS	08/20/21 14:32	MS210727-5	.05005	U	.049927	mg/L	100	70	130			
L67677-01ASD	ASD	08/20/21 14:33	MS210727-5	.05005	U	.054683	mg/L	109	70	130	9	20	

Beryllium, total recoverable

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525596													
WG525596ICV	ICV	08/19/21 13:17	MS210727-2	.05		.054695	mg/L	109	90	110			
WG525596ICB	ICB	08/19/21 13:19				U	mg/L		-0.00024	0.00024			
WG525456LRB	LRB	08/19/21 13:21				U	mg/L		-0.000176	0.000176			
WG525456LFB	LFB	08/19/21 13:23	MS210727-5	.05005		.049977	mg/L	100	85	115			
L67753-01LFM	LFM	08/19/21 13:32	MS210727-5	.05005	.000106	.045569	mg/L	91	70	130			
L67753-01LFMD	LFMD	08/19/21 13:34	MS210727-5	.05005	.000106	.044978	mg/L	90	70	130	1	20	

Cadmium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525689													
WG525689ICV	ICV	08/20/21 14:17	MS210727-2	.05		.052446	mg/L	105	90	110			
WG525689ICB	ICB	08/20/21 14:19				U	mg/L		-0.00011	0.00011			
WG525689LFB	LFB	08/20/21 14:21	MS210727-5	.05005		.052301	mg/L	104	85	115			
L67677-01AS	AS	08/20/21 14:32	MS210727-5	.05005	U	.048608	mg/L	97	70	130			
L67677-01ASD	ASD	08/20/21 14:33	MS210727-5	.05005	U	.054041	mg/L	108	70	130	11	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L67644

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Cadmium, total recoverable M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525596													
WG525596ICV	ICV	08/19/21 13:17	MS210727-2	.05		.054012	mg/L	108	90	110			
WG525596ICB	ICB	08/19/21 13:19				U	mg/L		-0.00015	0.00015			
WG525456LRB	LRB	08/19/21 13:21				U	mg/L		-0.00011	0.00011			
WG525456LFB	LFB	08/19/21 13:23	MS210727-5	.05005		.049326	mg/L	99	85	115			
L67753-01LFM	LFM	08/19/21 13:32	MS210727-5	.05005	.000088	.047583	mg/L	95	70	130			
L67753-01LFMD	LFMD	08/19/21 13:34	MS210727-5	.05005	.000088	.046989	mg/L	94	70	130	1	20	

Calcium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525425													
WG525425ICV	ICV	08/17/21 15:48	II210803-4	100		100.08	mg/L	100	95	105			
WG525425ICB	ICB	08/17/21 15:54				U	mg/L		-0.3	0.3			
WG525425LFB	LFB	08/17/21 16:06	II210810-2	67.99734		71.1	mg/L	105	85	115			
L67781-01AS	AS	08/17/21 16:16	II210810-2	67.99734	44.9	113.4	mg/L	101	85	115			
L67781-01ASD	ASD	08/17/21 16:19	II210810-2	67.99734	44.9	114	mg/L	102	85	115	1	20	

Calcium, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525473													
WG525473ICV	ICV	08/18/21 9:38	II210803-4	100		98.04	mg/L	98	95	105			
WG525473ICB	ICB	08/18/21 9:44				U	mg/L		-0.3	0.3			
WG525376LRB	LRB	08/18/21 9:56				U	mg/L		-0.22	0.22			
WG525376LFB	LFB	08/18/21 9:59	II210810-2	67.99734		66.28	mg/L	97	85	115			
L67644-03LFM	LFM	08/18/21 10:45	II210810-2	67.99734	109	172.8	mg/L	94	70	130			
L67644-03LFMD	LFMD	08/18/21 10:48	II210810-2	67.99734	109	173.9	mg/L	95	70	130	1	20	
L67740-05LFM	LFM	08/18/21 11:16	II210810-2	67.99734	76.1	143.5	mg/L	99	70	130			
L67740-05LFMD	LFMD	08/18/21 11:19	II210810-2	67.99734	76.1	142.9	mg/L	98	70	130	0	20	

Chromium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525425													
WG525425ICV	ICV	08/17/21 15:48	II210803-4	2		2.006	mg/L	100	95	105			
WG525425ICB	ICB	08/17/21 15:54				U	mg/L		-0.06	0.06			
WG525425LFB	LFB	08/17/21 16:06	II210810-2	.502		.514	mg/L	102	85	115			
L67781-01AS	AS	08/17/21 16:16	II210810-2	.502	U	.516	mg/L	103	85	115			
L67781-01ASD	ASD	08/17/21 16:19	II210810-2	.502	U	.521	mg/L	104	85	115	1	20	

Chromium, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525473													
WG525473ICV	ICV	08/18/21 9:38	II210803-4	2		1.997	mg/L	100	95	105			
WG525473ICB	ICB	08/18/21 9:44				U	mg/L		-0.06	0.06			
WG525376LRB	LRB	08/18/21 9:56				U	mg/L		-0.044	0.044			
WG525376LFB	LFB	08/18/21 9:59	II210810-2	.502		.512	mg/L	102	85	115			
L67644-03LFM	LFM	08/18/21 10:45	II210810-2	.502	U	.513	mg/L	102	70	130			
L67644-03LFMD	LFMD	08/18/21 10:48	II210810-2	.502	U	.515	mg/L	103	70	130	0	20	
L67740-05LFM	LFM	08/18/21 11:16	II210810-2	.502	U	.541	mg/L	108	70	130			
L67740-05LFMD	LFMD	08/18/21 11:19	II210810-2	.502	U	.543	mg/L	108	70	130	0	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L67644**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Conductivity @25C

SM2510B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525366													
WG525366LCSW2	LCSW	08/16/21 20:55	PCN62852	1410		1367	umhos/cm	97	90	110			
L67647-02DUP	DUP	08/16/21 22:42			252	252	umhos/cm				0	20	
WG525366LCSW5	LCSW	08/17/21 0:46	PCN62852	1410		1360	umhos/cm	96	90	110			
WG525366LCSW8	LCSW	08/17/21 3:56	PCN62852	1410		1353	umhos/cm	96	90	110			
WG525366LCSW11	LCSW	08/17/21 6:53	PCN62852	1410		1342	umhos/cm	95	90	110			
WG525366LCSW14	LCSW	08/17/21 10:46	PCN62852	1410		1339	umhos/cm	95	90	110			

Copper, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525473													
WG525473ICV	ICV	08/18/21 9:38	II210803-4	2		1.925	mg/L	96	95	105			
WG525473ICB	ICB	08/18/21 9:44				U	mg/L		-0.03	0.03			
WG525376LRB	LRB	08/18/21 9:56				U	mg/L		-0.022	0.022			
WG525376LFB	LFB	08/18/21 9:59	II210810-2	.5		.481	mg/L	96	85	115			
L67644-03LFM	LFM	08/18/21 10:45	II210810-2	.5	.016	.503	mg/L	97	70	130			
L67644-03LFMD	LFMD	08/18/21 10:48	II210810-2	.5	.016	.506	mg/L	98	70	130	1	20	
L67740-05LFM	LFM	08/18/21 11:16	II210810-2	5	U	.511	mg/L	102	70	130			
L67740-05LFMD	LFMD	08/18/21 11:19	II210810-2	5	U	.513	mg/L	103	70	130	0	20	

Fluoride

SM4500F-C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525837													
WG525837ICV	ICV	08/24/21 12:50	WC210819-7	2.002		2.19	mg/L	109	90	110			
WG525837ICB	ICB	08/24/21 12:54				U	mg/L		-0.3	0.3			
WG525837LFB1	LFB	08/24/21 13:02	WC210803-9	5.02		5.43	mg/L	108	90	110			
L67719-02AS	AS	08/24/21 13:45	WC210803-9	5.02	U	5.48	mg/L	109	90	110			
L67719-02ASD	ASD	08/24/21 13:53	WC210803-9	5.02	U	5.56	mg/L	111	90	110	1	20	MA
WG525837LFB3	LFB	08/24/21 16:47	WC210803-9	5.02		5.12	mg/L	102	90	110			

Iron, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525473													
WG525473ICV	ICV	08/18/21 9:38	II210803-4	2		1.952	mg/L	98	95	105			
WG525473ICB	ICB	08/18/21 9:44				U	mg/L		-0.18	0.18			
WG525376LRB	LRB	08/18/21 9:56				U	mg/L		-0.132	0.132			
WG525376LFB	LFB	08/18/21 9:59	II210810-2	1.0001		.978	mg/L	98	85	115			
L67644-03LFM	LFM	08/18/21 10:45	II210810-2	1.0001	.458	1.439	mg/L	98	70	130			
L67644-03LFMD	LFMD	08/18/21 10:48	II210810-2	1.0001	.458	1.439	mg/L	98	70	130	0	20	
L67740-05LFM	LFM	08/18/21 11:16	II210810-2	1.0001	1.97	2.974	mg/L	109	70	130			
L67740-05LFMD	LFMD	08/18/21 11:19	II210810-2	1.0001	1.97	2.921	mg/L	104	70	130	2	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L67644**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Lead, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525689													
WG525689ICV	ICV	08/20/21 14:17	MS210727-2	.05		05092	mg/L	102	90	110			
WG525689ICB	ICB	08/20/21 14:19				U	mg/L		-0.00022	0.00022			
WG525689LFB	LFB	08/20/21 14:21	MS210727-5	.05005		.05223	mg/L	104	85	115			
L67677-01AS	AS	08/20/21 14:32	MS210727-5	.05005	U	04842	mg/L	97	70	130			
L67677-01ASD	ASD	08/20/21 14:33	MS210727-5	.05005	U	.05342	mg/L	107	70	130	10	20	

Lead, total recoverable

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525596													
WG525596ICV	ICV	08/19/21 13:17	MS210727-2	.05		.05473	mg/L	109	90	110			
WG525596ICB	ICB	08/19/21 13:19				U	mg/L		-0.0003	0.0003			
WG525456LRB	LRB	08/19/21 13:21				U	mg/L		-0.00022	0.00022			
WG525456LFB	LFB	08/19/21 13:23	MS210727-5	.05005		.04749	mg/L	95	85	115			
L67753-01LFM	LFM	08/19/21 13:32	MS210727-5	.05005	.00087	.04901	mg/L	96	70	130			
L67753-01LFMD	LFMD	08/19/21 13:34	MS210727-5	.05005	.00087	.04925	mg/L	97	70	130	0	20	

Magnesium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525425													
WG525425ICV	ICV	08/17/21 15:48	11210803-4	100		96.9	mg/L	97	95	105			
WG525425ICB	ICB	08/17/21 15:54				U	mg/L		-0.6	0.6			
WG525425LFB	LFB	08/17/21 16:06	11210810-2	50.00074		49.86	mg/L	100	85	115			
L67781-01AS	AS	08/17/21 16:16	11210810-2	50.00074	10	59.08	mg/L	98	85	115			
L67781-01ASD	ASD	08/17/21 16:19	11210810-2	50.00074	10	59.46	mg/L	99	85	115	1	20	

Magnesium, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525473													
WG525473ICV	ICV	08/18/21 9:38	11210803-4	100		94.79	mg/L	95	95	105			
WG525473ICB	ICB	08/18/21 9:44				U	mg/L		-0.6	0.6			
WG525376LRB	LRB	08/18/21 9:56				U	mg/L		-0.44	0.44			
WG525376LFB	LFB	08/18/21 9:59	11210810-2	50.00074		46.42	mg/L	93	85	115			
L67644-03LFM	LFM	08/18/21 10:45	11210810-2	50.00074	60.6	106.5	mg/L	92	70	130			
L67644-03LFMD	LFMD	08/18/21 10:48	11210810-2	50.00074	60.6	107	mg/L	93	70	130	0	20	
L67740-05LFM	LFM	08/18/21 11:16	11210810-2	50.00074	14.4	61.98	mg/L	95	70	130			
L67740-05LFMD	LFMD	08/18/21 11:19	11210810-2	50.00074	14.4	61.93	mg/L	95	70	130	0	20	

Manganese, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525473													
WG525473ICV	ICV	08/18/21 9:38	11210803-4	2		1.928	mg/L	96	95	105			
WG525473ICB	ICB	08/18/21 9:44				U	mg/L		-0.03	0.03			
WG525376LRB	LRB	08/18/21 9:56				U	mg/L		-0.022	0.022			
WG525376LFB	LFB	08/18/21 9:59	11210810-2	.5005		.484	mg/L	97	85	115			
L67644-03LFM	LFM	08/18/21 10:45	11210810-2	.5005	.027	.508	mg/L	96	70	130			
L67644-03LFMD	LFMD	08/18/21 10:48	11210810-2	.5005	.027	.514	mg/L	97	70	130	1	20	
L67740-05LFM	LFM	08/18/21 11:16	11210810-2	.5005	.108	.611	mg/L	100	70	130			
L67740-05LFMD	LFMD	08/18/21 11:19	11210810-2	.5005	.108	.61	mg/L	100	70	130	0	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L67644**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Mercury, dissolved

M245.1 CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525142													
WG525142ICV	ICV	08/12/21 13:06	HG210805-3	.00501		.00491	mg/L	98	95	105			
WG525142ICB	ICB	08/12/21 13:07				U	mg/L		-0.0002	0.0002			
WG525143													
WG525143LRB	LRB	08/12/21 13:42				U	mg/L		-0.00044	0.00044			
WG525143LFB	LFB	08/12/21 13:43	HG210805-6	.002002		.00177	mg/L	88	85	115			
L67644-01LFM	LFM	08/12/21 13:58	HG210805-6	.002002	U	.00164	mg/L	82	85	115			M2
L67644-01LFMD	LFMD	08/12/21 13:59	HG210805-6	.002002	U	.00162	mg/L	81	85	115	1	20	M2

Mercury, total

M245.1 CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525142													
WG525142ICV	ICV	08/12/21 13:06	HG210805-3	.00501		.00491	mg/L	98	95	105			
WG525142ICB	ICB	08/12/21 13:07				U	mg/L		-0.0002	0.0002			
WG525142LRB	LRB	08/12/21 13:08				U	mg/L		-0.00044	0.00044			
WG525142LFB	LFB	08/12/21 13:09	HG210805-6	.002002		.0019	mg/L	95	85	115			
L67736-03LFM	LFM	08/12/21 13:35	HG210805-6	.002002	U	.00169	mg/L	84	85	115			MA
L67736-03LFMD	LFMD	08/12/21 13:36	HG210805-6	.002002	U	.00176	mg/L	88	85	115	4	20	

Nickel, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525425													
WG525425ICV	ICV	08/17/21 15:48	11210803-4	2		1.9498	mg/L	97	95	105			
WG525425ICB	ICB	08/17/21 15:54				U	mg/L		-0.024	0.024			
WG525425LFB	LFB	08/17/21 16:06	11210810-2	.5		.4985	mg/L	100	85	115			
L67781-01AS	AS	08/17/21 16:16	11210810-2	.5	U	.5021	mg/L	100	85	115			
L67781-01ASD	ASD	08/17/21 16:19	11210810-2	.5	U	.5039	mg/L	101	85	115	0	20	

Nickel, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525473													
WG525473ICV	ICV	08/18/21 9:38	11210803-4	2		1.9142	mg/L	96	95	105			
WG525473ICB	ICB	08/18/21 9:44				U	mg/L		-0.024	0.024			
WG525376LRB	LRB	08/18/21 9:56				U	mg/L		-0.0176	0.0176			
WG525376LFB	LFB	08/18/21 9:59	11210810-2	.5		.4758	mg/L	95	85	115			
L67644-03LFM	LFM	08/18/21 10:45	11210810-2	.5	.496	.9524	mg/L	91	70	130			
L67644-03LFMD	LFMD	08/18/21 10:48	11210810-2	.5	.496	.9512	mg/L	91	70	130	0	20	
L67740-05LFM	LFM	08/18/21 11:16	11210810-2	.5	U	.4829	mg/L	97	70	130			
L67740-05LFMD	LFMD	08/18/21 11:19	11210810-2	.5	U	.4816	mg/L	96	70	130	0	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L67644

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Nitrate/Nitrite as N M353.2 - H2SO4 preserved

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525713													
WG525713ICV	ICV	08/21/21 0:10	WI210603-7	2.416		2.308	mg/L	96	90	110			
WG525713ICB	ICB	08/21/21 0:11				U	mg/L		-0.02	0.02			
WG525716													
WG525716LFB	LFB	08/21/21 1:26	WI210331-13	2		2.015	mg/L	101	90	110			
L67612-01AS	AS	08/21/21 1:28	WI210331-13	2	1.37	3.268	mg/L	95	90	110			
L67613-01DUP	DUP	08/21/21 1:31			3.72	3.742	mg/L				1	20	

pH (lab) SM4500H+ B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525448													
WG525448LCSW1	LCSW	08/17/21 20:48	PCN62948	6		6	units	100	5.9	6.1			
WG525448LCSW4	LCSW	08/17/21 23:43	PCN62948	6		6.1	units	102	5.9	6.1			
L67647-03DUP	DUP	08/18/21 2:30			8.4	8.4	units				0	20	
WG525448LCSW7	LCSW	08/18/21 3:14	PCN62948	6		6.1	units	102	5.9	6.1			
WG525448LCSW10	LCSW	08/18/21 6:49	PCN62948	6		6.1	units	102	5.9	6.1			
WG525448LCSW13	LCSW	08/18/21 9:48	PCN62948	6		6.1	units	102	5.9	6.1			

Potassium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525425													
WG525425ICV	ICV	08/17/21 15:48	II210803-4	20		19.9	mg/L	100	95	105			
WG525425ICB	ICB	08/17/21 15:54				U	mg/L		-0.6	0.6			
WG525425LFB	LFB	08/17/21 16:06	II210810-2	99.99574		102	mg/L	102	85	115			
L67781-01AS	AS	08/17/21 16:16	II210810-2	99.99574	13.4	114.2	mg/L	101	85	115			
L67781-01ASD	ASD	08/17/21 16:19	II210810-2	99.99574	13.4	114.7	mg/L	101	85	115	0	20	

Potassium, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525473													
WG525473ICV	ICV	08/18/21 9:38	II210803-4	20		19.45	mg/L	97	95	105			
WG525473ICB	ICB	08/18/21 9:44				U	mg/L		-0.6	0.6			
WG525376LRB	LRB	08/18/21 9:56				U	mg/L		-0.44	0.44			
WG525376LFB	LFB	08/18/21 9:59	II210810-2	99.99574		95.14	mg/L	95	85	115			
L67644-03LFM	LFM	08/18/21 10:45	II210810-2	99.99574	6.41	103.9	mg/L	97	70	130			
L67644-03LFMD	LFMD	08/18/21 10:48	II210810-2	99.99574	6.41	104.7	mg/L	98	70	130	1	20	
L67740-05LFM	LFM	08/18/21 11:16	II210810-2	99.99574	2.78	103.9	mg/L	101	70	130			
L67740-05LFMD	LFMD	08/18/21 11:19	II210810-2	99.99574	2.78	104.4	mg/L	102	70	130	0	20	

Residue, Filterable (TDS) @180C SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525132													
WG525132PBW	PBW	08/11/21 17:00				U	mg/L		-20	20			
WG525132LCSW	LCSW	08/11/21 17:01	PCN63560	1000		996	mg/L	100	80	120			
L67644-03DUP	DUP	08/11/21 17:20			756	758	mg/L				0	10	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L67644**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Selenium, dissolved		M200.8 ICP-MS											
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525689													
WG525689ICV	ICV	08/20/21 14:17	MS210727-2	.05		.05129	mg/L	103	90	110			
WG525689ICB	ICB	08/20/21 14:19				U	mg/L		-0.00022	0.00022			
WG525689LFB	LFB	08/20/21 14:21	MS210727-5	.05		.05159	mg/L	103	85	115			
L67677-01AS	AS	08/20/21 14:32	MS210727-5	.05	U	.04965	mg/L	99	70	130			
L67677-01ASD	ASD	08/20/21 14:33	MS210727-5	.05	U	.05532	mg/L	111	70	130	11	20	

Selenium, total recoverable		M200.8 ICP-MS											
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525866													
WG525866ICV	ICV	08/24/21 17:58	MS210727-2	.05		.05203	mg/L	104	90	110			
WG525866ICB	ICB	08/24/21 18:00				U	mg/L		-0.0003	0.0003			
WG525456LRB	LRB	08/24/21 18:02				U	mg/L		-0.00022	0.00022			
WG525456LFB	LFB	08/24/21 18:04	MS210727-5	.05		.04548	mg/L	91	85	115			
L67753-01LFM	LFM	08/24/21 18:11	MS210727-5	.05	.00174	.04656	mg/L	90	70	130			
L67753-01LFMD	LFMD	08/24/21 18:13	MS210727-5	.05	.00174	.04621	mg/L	89	70	130	1	20	

Sodium, dissolved		M200.7 ICP											
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525425													
WG525425ICV	ICV	08/17/21 15:48	11210803-4	100		100.52	mg/L	101	95	105			
WG525425ICB	ICB	08/17/21 15:54				U	mg/L		-0.6	0.6			
WG525425LFB	LFB	08/17/21 16:06	11210810-2	100.0109		102.8	mg/L	103	85	115			
L67781-01AS	AS	08/17/21 16:16	11210810-2	100.0109	77	174.3	mg/L	97	85	115			
L67781-01ASD	ASD	08/17/21 16:19	11210810-2	100.0109	77	178.1	mg/L	101	85	115	2	20	

Sodium, total recoverable		M200.7 ICP											
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525473													
WG525473ICV	ICV	08/18/21 9:38	11210803-4	100		98.75	mg/L	99	95	105			
WG525473ICB	ICB	08/18/21 9:44				U	mg/L		-0.6	0.6			
WG525376LRB	LRB	08/18/21 9:56				U	mg/L		-0.44	0.44			
WG525376LFB	LFB	08/18/21 9:59	11210810-2	100.0109		97.04	mg/L	97	85	115			
L67644-03LFM	LFM	08/18/21 10:45	11210810-2	100.0109	25.8	125.1	mg/L	99	70	130			
L67644-03LFMD	LFMD	08/18/21 10:48	11210810-2	100.0109	25.8	126.4	mg/L	101	70	130	1	20	
L67740-05LFM	LFM	08/18/21 11:16	11210810-2	100.0109	7.57	111.3	mg/L	104	70	130			
L67740-05LFMD	LFMD	08/18/21 11:19	11210810-2	100.0109	7.57	111.4	mg/L	104	70	130	0	20	

Sulfate		D516-02/-07/-11 - TURBIDIMETRIC											
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525939													
WG525939ICB	ICB	08/25/21 9:43				U	mg/L		-3	3			
WG525939ICV	ICV	08/25/21 9:43	W1210818-1	20.46		20.3	mg/L	99	90	110			
WG525939LFB	LFB	08/25/21 15:21	W1210105-3	10		10.8	mg/L	108	90	110			
L67573-01AS	AS	08/26/21 8:36	SO4TURB80X	1000	2850	2769.6	mg/L	-8	90	110			M3
L67570-04DUP	DUP	08/26/21 9:57			2.1	U	mg/L				200	20	RA

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L67644**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Thallium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525689													
WG525689ICV	ICV	08/20/21 14:17	MS210727-2	.05		.05197	mg/L	104	90	110			
WG525689ICB	ICB	08/20/21 14:19				U	mg/L		-0.00022	0.00022			
WG525689LFB	LFB	08/20/21 14:21	MS210727-5	.05		.0524	mg/L	105	85	115			
L67677-01AS	AS	08/20/21 14:32	MS210727-5	.05	U	.04864	mg/L	97	70	130			
L67677-01ASD	ASD	08/20/21 14:33	MS210727-5	.05	U	.05381	mg/L	108	70	130	10	20	

Thallium, total recoverable M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525596													
WG525596ICV	ICV	08/19/21 13:17	MS210727-2	.05		.05345	mg/L	107	90	110			
WG525596ICB	ICB	08/19/21 13:19				U	mg/L		-0.0003	0.0003			
WG525456LRB	LRB	08/19/21 13:21				U	mg/L		-0.00022	0.00022			
WG525456LFB	LFB	08/19/21 13:23	MS210727-5	.05		.04524	mg/L	90	85	115			
L67753-01LFM	LFM	08/19/21 13:32	MS210727-5	.05	U	.04687	mg/L	94	70	130			
L67753-01LFMD	LFMD	08/19/21 13:34	MS210727-5	.05	U	.04713	mg/L	94	70	130	1	20	

Uranium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525689													
WG525689ICV	ICV	08/20/21 14:17	MS210727-2	.05		.05093	mg/L	102	90	110			
WG525689ICB	ICB	08/20/21 14:19				U	mg/L		-0.00022	0.00022			
WG525689LFB	LFB	08/20/21 14:21	MS210727-5	.05		.05199	mg/L	104	85	115			
L67677-01AS	AS	08/20/21 14:32	MS210727-5	.05	.00024	.04859	mg/L	97	70	130			
L67677-01ASD	ASD	08/20/21 14:33	MS210727-5	.05	.00024	.05345	mg/L	106	70	130	10	20	

Uranium, total recoverable M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525596													
WG525596ICV	ICV	08/19/21 13:17	MS210727-2	.05		.05341	mg/L	107	90	110			
WG525596ICB	ICB	08/19/21 13:19				U	mg/L		-0.0003	0.0003			
WG525456LRB	LRB	08/19/21 13:21				U	mg/L		-0.00022	0.00022			
WG525456LFB	LFB	08/19/21 13:23	MS210727-5	.05		.04584	mg/L	92	85	115			
L67753-01LFM	LFM	08/19/21 13:32	MS210727-5	.05	.00324	.05276	mg/L	99	70	130			
L67753-01LFMD	LFMD	08/19/21 13:34	MS210727-5	.05	.00324	.05273	mg/L	99	70	130	0	20	

Vanadium, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525499													
WG525499ICV	ICV	08/18/21 15:13	11210803-4	2		1.965	mg/L	98	95	105			
WG525499ICB	ICB	08/18/21 15:19				U	mg/L		-0.015	0.015			
WG525376LRB	LRB	08/18/21 15:32				U	mg/L		-0.022	0.022			
WG525376LFB	LFB	08/18/21 15:35	11210810-2	.5005		.4906	mg/L	98	85	115			
L67644-03LFM	LFM	08/18/21 15:45	11210810-2	.5005	U	.4924	mg/L	98	70	130			
L67644-03LFMD	LFMD	08/18/21 15:48	11210810-2	.5005	U	.49	mg/L	98	70	130	0	20	
L67740-05LFM	LFM	08/18/21 15:54	11210810-2	.5005	U	.497	mg/L	99	70	130			
L67740-05LFMD	LFMD	08/18/21 15:57	11210810-2	.5005	U	.49	mg/L	98	70	130	1	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L67644**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Zinc, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525473													
WG525473ICV	ICV	08/18/21 9:38	11210803-4	2		1.95	mg/L	98	95	105			
WG525473ICB	ICB	08/18/21 9:44				U	mg/L		-0.06	0.06			
WG525376LRB	LRB	08/18/21 9:56				U	mg/L		-0.044	0.044			
WG525376LFB	LFB	08/18/21 9:59	11210810-2	.50045		.514	mg/L	103	85	115			
L67644-03LFM	LFM	08/18/21 10:45	11210810-2	.50045	.925	1.445	mg/L	104	70	130			
L67644-03LFMD	LFMD	08/18/21 10:48	11210810-2	.50045	.925	1.457	mg/L	106	70	130	1	20	
L67740-05LFM	LFM	08/18/21 11:16	11210810-2	.50045	.037	.589	mg/L	110	70	130			
L67740-05LFMD	LFMD	08/18/21 11:19	11210810-2	.50045	.037	.584	mg/L	109	70	130	1	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L67644**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L67644-01	WG525837	Fluoride	SM4500F-C	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
	WG525143	Mercury, dissolved	M245.1 CVAA	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG525939	Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
D516-02/-07/-11 - TURBIDIMETRIC			RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).	
L67644-02	WG525142	Mercury, total	M245.1 CVAA	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
L67644-03	WG525837	Fluoride	SM4500F-C	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
	WG525142	Mercury, total	M245.1 CVAA	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
	WG525939	Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
D516-02/-07/-11 - TURBIDIMETRIC			RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L67644
 Date Received: 08/06/2021 09:46
 Received By:
 Date Printed: 8/9/2021

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody form or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?		X	
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody form complete and accurate?	X		
7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples?	X		
A change was made in the Report to and Invoice to section prior to ACZ custody.			
A change was made in the Report to and Invoice to section prior to ACZ custody.			
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Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits? ¹	X		
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?	X		

NA indicates Not Applicable

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp (°C)	Temp Criteria (°C)	Rad (µR/Hr)	Custody Seal Intact?

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L67644

Date Received: 08/06/2021 09:46

Received By:

Date Printed: 8/9/2021

4307	3.3	<=6.0	15	Yes
7151	0.6	<=6.0	15	N/A

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

¹ The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na2S2O3 preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).



Laboratories, Inc.

L67644

CHAIN of CUSTODY

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Report to:

Name: Kathy Weinel
Company: Energy Fuels
E-mail: kweinel@energyfuels.com

Address: 225 Union Blvd. Suite 600
Lakewood, CO 80928
Telephone: 303-389-4134

Copy of Report to:

Name:
Company:

E-mail:
Telephone:

Invoice to:

Name: Kathy Weinel
Company: Energy Fuels
E-mail: kweinel@energyfuels.com

Address: 225 Union Blvd, Suite 600
Lakewood, CO 80928
Telephone: 303-389-4134

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES [X] NO []

If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified

Are samples for SDWA Compliance Monitoring? Yes [] No [X]

If yes, please include state forms. Results will be reported to PQL for Colorado.

Sampler's Name: Matt Germanson Sampler's Site Information State AZ Zip code Time Zone

*Sampler's Signature: [Signature] I attest to the authenticity and validity of this sample. I understand that intentionally mislabeling the time/date/location or tampering with the sample in anyway, is considered fraud and punishable by State Law.

PROJECT INFORMATION

ANALYSES REQUESTED (attach list or use quote number)

Table with columns: Quote #, PO#, Reporting state, Check box, SAMPLE IDENTIFICATION, DATE:TIME, Matrix, # of Containers, and analysis types (PP-GW-IND APP, PP-RING-ADEQ-SPLIT, PP-SUMP-IND APP).

Matrix SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS

Normal TAT All Samples

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

Table with columns: RELINQUISHED BY, DATE:TIME, RECEIVED BY, DATE:TIME. Includes signature of Matt Germanson and date 8/5/21:1510.

L67644 Chain of Custody

the 1990s, the number of people with a mental health problem has increased in the UK (Mental Health Act 1983).

There is a growing awareness of the need to improve the lives of people with mental health problems. The Department of Health (1999) has set out a vision of a new mental health system, which will be based on the following principles:

- People with mental health problems should be treated as individuals, with their own needs and wishes.
- People with mental health problems should be given the opportunity to participate in decisions about their care and treatment.
- People with mental health problems should be given the opportunity to live in their own homes and communities.

The Department of Health (1999) has also set out a vision of a new mental health system, which will be based on the following principles:

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- People with mental health problems should be given the opportunity to participate in decisions about their care and treatment.
- People with mental health problems should be treated as individuals, with their own needs and wishes.

January 17, 2022

Report to:

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

Bill to:

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

Project ID:

ACZ Project ID: L70399

Kathy Weinel:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on December 10, 2021. This project has been assigned to ACZ's project number, L70399. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L70399. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after February 16, 2022. If the samples are determined to be hazardous, additional charges apply for disposal (typically \$11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.



Max Janicek has reviewed and approved this report.



Energy Fuels Resources (USA) Inc.
Project ID:
Sample ID: RW-01_12082021

ACZ Sample ID: **L70399-04**
Date Sampled: 12/08/21 16:38
Date Received: 12/10/21
Sample Matrix: Groundwater

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	01/14/22 12:10	kja
Arsenic, dissolved	M200.8 ICP-MS	1	0.00024	B		mg/L	0.0002	0.001	01/11/22 13:43	kja/mf m
Barium, dissolved	M200 7 ICP	1	0.0888			mg/L	0.007	0.035	12/29/21 20:47	kja
Beryllium, dissolved	M200 8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	01/11/22 13:43	kja/mf m
Cadmium, dissolved	M200.8 ICP-MS	1	<0.00005	U		mg/L	0.00005	0.00025	01/11/22 13:43	kja/mf m
Calcium, dissolved	M200 7 ICP	1	43.7			mg/L	0.1	0.5	12/29/21 20:47	kja
Chromium, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	12/29/21 20:47	kja
Lead, dissolved	M200 8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	01/11/22 13:43	kja/mf m
Magnesium, dissolved	M200 7 ICP	1	30.0			mg/L	0.2	1	12/29/21 20:47	kja
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U	*	mg/L	0.0002	0.001	12/17/21 9:09	mlh
Nickel, dissolved	M200.7 ICP	1	0.0112	B		mg/L	0.008	0.04	12/29/21 20:47	kja
Potassium, dissolved	M200.7 ICP	1	2.34			mg/L	0.2	1	12/29/21 20:47	kja
Selenium, dissolved	M200.8 ICP-MS	1	0.00587			mg/L	0.0001	0.00025	01/11/22 13:43	kja/mf m
Sodium, dissolved	M200.7 ICP	1	5.96			mg/L	0.2	1	12/29/21 20:47	kja
Thallium, dissolved	M200 8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	01/11/22 13:43	kja/mf m
Uranium, dissolved	M200 8 ICP-MS	1	0.0157			mg/L	0.0001	0.0005	01/11/22 13:43	kja/mf m

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	190			mg/L	2	20	12/18/21 0:00	eep
Carbonate as CaCO3		1	13.0	B		mg/L	2	20	12/18/21 0:00	eep
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	12/18/21 0:00	eep
Total Alkalinity		1	203			mg/L	2	20	12/18/21 0:00	eep
Conductivity @25C	SM2510B	1	441			umhos/cm	1	10	12/18/21 22:36	eep
Fluoride	SM4500F-C	1	0.29	B		mg/L	0.15	0.35	12/29/21 15:11	eep
Nitrate/Nitrite as N	M353 2 - H2SO4 preserved	1	0.091	B		mg/L	0.02	0.1	12/29/21 2:44	pjb
pH (lab)	SM4500H+ B									
pH		1	8.4	H		units	0.1	0.1	12/18/21 0:00	eep
pH measured at		1	22.2			C	0.1	0.1	12/18/21 0:00	eep
Residue, Filterable (TDS) @180C	SM2540C	1	238			mg/L	20	40	12/13/21 19:34	jck
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	1	22.0		*	mg/L	1	5	12/30/21 16:00	wtc

Arizona license number: AZ0102

Energy Fuels Resources (USA) Inc.
Project ID:
Sample ID: RW-01DUP_12082021

ACZ Sample ID: **L70399-05**
Date Sampled: 12/08/21 16:38
Date Received: 12/10/21
Sample Matrix: Groundwater

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	01/12/22 18:23	kja/mf m
Arsenic, dissolved	M200.8 ICP-MS	1	0.00022	B		mg/L	0.0002	0.001	01/11/22 13:45	kja/mf m
Barium, dissolved	M200.7 ICP	1	0.0872			mg/L	0.007	0.035	12/29/21 20:50	kja
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	01/11/22 13:45	kja/mf m
Cadmium, dissolved	M200.8 ICP-MS	1	<0.00005	U		mg/L	0.00005	0.00025	01/11/22 13:45	kja/mf m
Calcium, dissolved	M200.7 ICP	1	43.5			mg/L	0.1	0.5	12/29/21 20:50	kja
Chromium, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	12/29/21 20:50	kja
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	01/11/22 13:45	kja/mf m
Magnesium, dissolved	M200.7 ICP	1	29.6			mg/L	0.2	1	12/29/21 20:50	kja
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U	*	mg/L	0.0002	0.001	12/17/21 9:10	mlh
Nickel, dissolved	M200.7 ICP	1	0.0126	B		mg/L	0.008	0.04	12/29/21 20:50	kja
Potassium, dissolved	M200.7 ICP	1	2.38			mg/L	0.2	1	12/29/21 20:50	kja
Selenium, dissolved	M200.8 ICP-MS	1	0.00581			mg/L	0.0001	0.00025	01/11/22 13:45	kja/mf m
Sodium, dissolved	M200.7 ICP	1	5.97			mg/L	0.2	1	12/29/21 20:50	kja
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	01/11/22 13:45	kja/mf m
Uranium, dissolved	M200.8 ICP-MS	1	0.0154			mg/L	0.0001	0.0005	01/11/22 13:45	kja/mf m

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	211			mg/L	2	20	12/18/21 0:00	eep
Carbonate as CaCO3		1	11.5	B		mg/L	2	20	12/18/21 0:00	eep
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	12/18/21 0:00	eep
Total Alkalinity		1	222			mg/L	2	20	12/18/21 0:00	eep
Conductivity @25C	SM2510B	1	440			umhos/cm	1	10	12/18/21 22:47	eep
Fluoride	SM4500F-C	1	0.29	B		mg/L	0.15	0.35	12/29/21 15:19	eep
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	0.089	B		mg/L	0.02	0.1	12/29/21 2:46	pjb
pH (lab)	SM4500H+ B									
pH		1	8.4	H		units	0.1	0.1	12/18/21 0:00	eep
pH measured at		1	22.1			C	0.1	0.1	12/18/21 0:00	eep
Residue, Filterable (TDS) @180C	SM2540C	1	238			mg/L	20	40	12/13/21 19:36	jck
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	1	20.3		*	mg/L	1	5	12/30/21 16:00	wtc

Arizona license number: **AZ0102**

EFRC

ACZ Project ID: **L70399**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Alkalinity as CaCO3 SM2320B - Titration

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533738													
WG533738LCSW3	LCSW	12/16/21 16:16	WC211215-1	820.0001		749.8	mg/L	91	90	110			
WG533738PBW1	PBW	12/16/21 16:24				2.2	mg/L		-20	20			
WG533738LCSW6	LCSW	12/16/21 20:46	WC211215-1	820.0001		777	mg/L	95	90	110			
WG533738PBW2	PBW	12/16/21 20:54				2.2	mg/L		-20	20			
WG533738LCSW12	LCSW	12/17/21 4:52	WC211215-1	820.0001		771.9	mg/L	94	90	110			
WG533738PBW4	PBW	12/17/21 5:00				3.1	mg/L		-20	20			
L70399-03DUP	DUP	12/17/21 8:31			157	157.5	mg/L				0	20	
WG533738LCSW15	LCSW	12/17/21 8:51	WC211215-1	820.0001		798.1	mg/L	97	90	110			
WG533861													
WG533861PBW1	PBW	12/18/21 14:35				6.9	mg/L		-20	20			
WG533861LCSW3	LCSW	12/18/21 14:57	WC211215-1	820.0001		786	mg/L	96	90	110			
WG533861LCSW6	LCSW	12/18/21 17:44	WC211215-1	820.0001		772.5	mg/L	94	90	110			
WG533861PBW2	PBW	12/18/21 17:51				5.4	mg/L		-20	20			
WG533861LCSW9	LCSW	12/18/21 20:36	WC211215-1	820.0001		765.3	mg/L	93	90	110			
WG533861PBW3	PBW	12/18/21 20:43				6	mg/L		-20	20			
L70405-02DUP	DUP	12/18/21 23:40			364	347.1	mg/L				5	20	
WG533861LCSW12	LCSW	12/19/21 0:01	WC211215-1	820.0001		794.8	mg/L	97	90	110			
WG533861PBW4	PBW	12/19/21 0:09				5.5	mg/L		-20	20			
WG533861LCSW15	LCSW	12/19/21 4:21	WC211215-1	820.0001		795.8	mg/L	97	90	110			

Antimony, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534896													
WG534896ICV	ICV	01/12/22 18:04	MS220105-1	.0201		.02011	mg/L	100	90	110			
WG534896ICB	ICB	01/12/22 18:06				U	mg/L		-0.00088	0.00088			
WG534896LFB	LFB	01/12/22 18:08	MS211216-3	.01		.00978	mg/L	98	85	115			
L70399-03AS	AS	01/12/22 18:17	MS211216-3	.01	U	.01135	mg/L	114	70	130			
L70399-03ASD	ASD	01/12/22 18:19	MS211216-3	.01	U	.01152	mg/L	115	70	130	1	20	
WG534981													
WG534981ICV	ICV	01/14/22 12:05	MS220105-1	.0201		.01959	mg/L	97	90	110			
WG534981ICB	ICB	01/14/22 12:07				.00055	mg/L		-0.00088	0.00088			
WG534981LFB	LFB	01/14/22 12:08	MS211216-3	.01		.0109	mg/L	109	85	115			
L70424-01AS	AS	01/14/22 12:22	MS211216-3	.01	U	.01004	mg/L	100	70	130			
L70424-01ASD	ASD	01/14/22 12:23	MS211216-3	.01	U	.01045	mg/L	105	70	130	4	20	

Arsenic, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534781													
WG534781ICV	ICV	01/11/22 13:26	MS220105-1	.05		.0519	mg/L	104	90	110			
WG534781ICB	ICB	01/11/22 13:29				U	mg/L		-0.00044	0.00044			
WG534781LFB	LFB	01/11/22 13:31	MS211216-3	.05005		.04976	mg/L	99	85	115			
L70399-03AS	AS	01/11/22 13:39	MS211216-3	.05005	.012	.06361	mg/L	103	70	130			
L70399-03ASD	ASD	01/11/22 13:41	MS211216-3	.05005	.012	.06581	mg/L	108	70	130	3	20	

EFRC

ACZ Project ID: **L70399**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Barium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534225													
WG534225ICV	ICV	12/29/21 20:11	II211214-2	2		2.048	mg/L	102	95	105			
WG534225ICB	ICB	12/29/21 20:16				U	mg/L		-0.021	0.021			
WG534225LFB	LFB	12/29/21 20:29	II211228-2	.5		.4965	mg/L	99	85	115			
L70399-02AS	AS	12/29/21 20:38	II211228-2	.5	.0459	.5578	mg/L	102	85	115			
L70399-02ASD	ASD	12/29/21 20:41	II211228-2	.5	.0459	.5504	mg/L	101	85	115	1	20	

Beryllium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534781													
WG534781ICV	ICV	01/11/22 13:26	MS220105-1	.05		.052297	mg/L	105	90	110			
WG534781ICB	ICB	01/11/22 13:29				U	mg/L		-0.000176	0.000176			
WG534781LFB	LFB	01/11/22 13:31	MS211216-3	.05005		.047616	mg/L	95	85	115			
L70399-03AS	AS	01/11/22 13:39	MS211216-3	.05005	U	.051361	mg/L	103	70	130			
L70399-03ASD	ASD	01/11/22 13:41	MS211216-3	.05005	U	.053335	mg/L	107	70	130	4	20	

Cadmium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534781													
WG534781ICV	ICV	01/11/22 13:26	MS220105-1	.05		.05315	mg/L	106	90	110			
WG534781ICB	ICB	01/11/22 13:29				U	mg/L		-0.00011	0.00011			
WG534781LFB	LFB	01/11/22 13:31	MS211216-3	.05005		.048625	mg/L	97	85	115			
L70399-03AS	AS	01/11/22 13:39	MS211216-3	.05005	U	.05288	mg/L	106	70	130			
L70399-03ASD	ASD	01/11/22 13:41	MS211216-3	.05005	U	.055159	mg/L	110	70	130	4	20	

Calcium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534225													
WG534225ICV	ICV	12/29/21 20:11	II211214-2	100		100.46	mg/L	100	95	105			
WG534225ICB	ICB	12/29/21 20:16				U	mg/L		-0.3	0.3			
WG534225LFB	LFB	12/29/21 20:29	II211228-2	67.98808		68.07	mg/L	100	85	115			
L70399-02AS	AS	12/29/21 20:38	II211228-2	67.98808	80.7	141.3	mg/L	89	85	115			
L70399-02ASD	ASD	12/29/21 20:41	II211228-2	67.98808	80.7	148.3	mg/L	99	85	115	5	20	

Chromium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534225													
WG534225ICV	ICV	12/29/21 20:11	II211214-2	2		1.975	mg/L	99	95	105			
WG534225ICB	ICB	12/29/21 20:16				U	mg/L		-0.06	0.06			
WG534225LFB	LFB	12/29/21 20:29	II211228-2	.5005		.478	mg/L	96	85	115			
L70399-02AS	AS	12/29/21 20:38	II211228-2	.5005	U	.502	mg/L	100	85	115			
L70399-02ASD	ASD	12/29/21 20:41	II211228-2	.5005	U	.492	mg/L	98	85	115	2	20	

EFRC

ACZ Project ID: **L70399**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Conductivity @25C

SM2510B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533738													
WG533738LCSW2	LCSW	12/16/21 17:18	PCN64229	1409		1397	umhos/cm	99	90	110			
WG533738LCSW5	LCSW	12/16/21 20:32	PCN64229	1409		1399	umhos/cm	99	90	110			
WG533738LCSW8	LCSW	12/17/21 0:58	PCN64229	1409		1402	umhos/cm	100	90	110			
WG533738LCSW11	LCSW	12/17/21 4:40	PCN64229	1409		1395	umhos/cm	99	90	110			
L70399-03DUP	DUP	12/17/21 8:31			1360	1364	umhos/cm				0	20	
WG533738LCSW14	LCSW	12/17/21 8:36	PCN64229	1409		1388	umhos/cm	99	90	110			
WG533861													
WG533861LCSW2	LCSW	12/18/21 14:42	PCN64229	1409		1418	umhos/cm	101	90	110			
WG533861LCSW5	LCSW	12/18/21 17:31	PCN64229	1409		1415	umhos/cm	100	90	110			
WG533861LCSW8	LCSW	12/18/21 20:23	PCN64229	1409		1412	umhos/cm	100	90	110			
L70405-02DUP	DUP	12/18/21 23:40			6860	6940	umhos/cm				1	20	
WG533861LCSW11	LCSW	12/18/21 23:47	PCN64229	1409		1405	umhos/cm	100	90	110			
WG533861LCSW14	LCSW	12/19/21 4:06	PCN64229	1409		1402	umhos/cm	100	90	110			

Fluoride

SM4500F-C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534214													
WG534214ICV	ICV	12/29/21 13:53	WC211221-1	2.002		2.1	mg/L	105	90	110			
WG534214ICB	ICB	12/29/21 13:57				U	mg/L		-0.3	0.3			
WG534214LFB1	LFB	12/29/21 14:07	WC210803-9	5.02		5.02	mg/L	100	90	110			
L70398-01AS	AS	12/29/21 14:23	WC210803-9	5.02	.46	5.41	mg/L	99	90	110			
L70398-01ASD	ASD	12/29/21 14:31	WC210803-9	5.02	.46	5.46	mg/L	100	90	110	1	20	
L70399-05AS	AS	12/29/21 15:39	WC210803-9	5.02	.29	5.39	mg/L	102	90	110			
L70399-05ASD	ASD	12/29/21 15:47	WC210803-9	5.02	.29	5.49	mg/L	104	90	110	2	20	
WG534214LFB2	LFB	12/29/21 20:00	WC210803-9	5.02		5.24	mg/L	104	90	110			

Lead, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534781													
WG534781ICV	ICV	01/11/22 13:26	MS220105-1	05		.05189	mg/L	104	90	110			
WG534781ICB	ICB	01/11/22 13:29				U	mg/L		-0.00022	0.00022			
WG534781LFB	LFB	01/11/22 13:31	MS211216-3	.05005		.04718	mg/L	94	85	115			
L70399-03AS	AS	01/11/22 13:39	MS211216-3	05005	U	.05139	mg/L	103	70	130			
L70399-03ASD	ASD	01/11/22 13:41	MS211216-3	05005	U	.0539	mg/L	108	70	130	5	20	

Magnesium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534225													
WG534225ICV	ICV	12/29/21 20:11	II211214-2	100		97.02	mg/L	97	95	105			
WG534225ICB	ICB	12/29/21 20:16				U	mg/L		-0.6	0.6			
WG534225LFB	LFB	12/29/21 20:29	II211228-2	49.99847		48.05	mg/L	96	85	115			
L70399-02AS	AS	12/29/21 20:38	II211228-2	49.99847	39	82.67	mg/L	87	85	115			
L70399-02ASD	ASD	12/29/21 20:41	II211228-2	49.99847	39	87.98	mg/L	98	85	115	6	20	

EFRC

ACZ Project ID: **L70399**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Mercury, dissolved

M245.1 CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533707													
WG533707ICV	ICV	12/17/21 8:20	HG211213-3	.00501		.00524	mg/L	105	95	105			
WG533707ICB	ICB	12/17/21 8:21				U	mg/L		-0.0002	0.0002			
WG533686													
WG533686LRB	LRB	12/17/21 8:58				U	mg/L		-0.00044	0.00044			
WG533686LFB	LFB	12/17/21 8:59	HG211213-6	.002002		.00215	mg/L	107	85	115			
L70399-03LFM	LFM	12/17/21 9:05	HG211213-6	.002002	U	.00254	mg/L	127	85	115			M1
L70399-03LFMD	LFMD	12/17/21 9:06	HG211213-6	.002002	U	.00252	mg/L	126	85	115	1	20	M1

Nickel, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534225													
WG534225ICV	ICV	12/29/21 20:11	II211214-2	2		2.0202	mg/L	101	95	105			
WG534225ICB	ICB	12/29/21 20:16				U	mg/L		-0.024	0.024			
WG534225LFB	LFB	12/29/21 20:29	II211228-2	.5		.4982	mg/L	100	85	115			
L70399-02AS	AS	12/29/21 20:38	II211228-2	.5	.0159	.5309	mg/L	103	85	115			
L70399-02ASD	ASD	12/29/21 20:41	II211228-2	.5	.0159	.5223	mg/L	101	85	115	2	20	

Nitrate/Nitrite as N

M353.2 - H2SO4 preserved

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534194													
WG534194ICV	ICV	12/29/21 1:17	WI211205-1	2.4161		2.361	mg/L	98	90	110			
WG534194ICB	ICB	12/29/21 1:18				U	mg/L		-0.02	0.02			
WG534197													
WG534197LFB	LFB	12/29/21 2:34	WI211001-5	2		2.082	mg/L	104	90	110			
L70398-01AS	AS	12/29/21 2:37	WI211001-5	2	.271	2.462	mg/L	110	90	110			
L70398-02DUP	DUP	12/29/21 2:39			.274	.274	mg/L				0	20	

pH (lab)

SM4500H+ B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533738													
WG533738LCSW1	LCSW	12/16/21 17:16	PCN62948	6		6.1	units	102	5.9	6.1			
WG533738LCSW4	LCSW	12/16/21 20:30	PCN62948	6		6.1	units	102	5.9	6.1			
WG533738LCSW10	LCSW	12/17/21 4:38	PCN62948	6		6.1	units	102	5.9	6.1			
L70399-03DUP	DUP	12/17/21 8:31			8.1	8.1	units				0	20	
WG533738LCSW13	LCSW	12/17/21 8:36	PCN62948	6		6.1	units	102	5.9	6.1			
WG533861													
WG533861LCSW1	LCSW	12/18/21 14:40	PCN62948	6		6.1	units	102	5.9	6.1			
WG533861LCSW4	LCSW	12/18/21 17:29	PCN62948	6		6.1	units	102	5.9	6.1			
WG533861LCSW7	LCSW	12/18/21 20:21	PCN62948	6		6.1	units	102	5.9	6.1			
L70405-02DUP	DUP	12/18/21 23:40			8	8.1	units				1	20	
WG533861LCSW10	LCSW	12/18/21 23:45	PCN62948	6		6.1	units	102	5.9	6.1			
WG533861LCSW13	LCSW	12/19/21 4:05	PCN62948	6		6.1	units	102	5.9	6.1			

EFRC

ACZ Project ID: **L70399**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Potassium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534225													
WG534225ICV	ICV	12/29/21 20:11	II211214-2	20		19.96	mg/L	100	95	105			
WG534225ICB	ICB	12/29/21 20:16				U	mg/L		-0.6	0.6			
WG534225LFB	LFB	12/29/21 20:29	II211228-2	99.96008		98.6	mg/L	99	85	115			
L70399-02AS	AS	12/29/21 20:38	II211228-2	99.96008	3.85	98.44	mg/L	95	85	115			
L70399-02ASD	ASD	12/29/21 20:41	II211228-2	99.96008	3.85	109.6	mg/L	106	85	115	11	20	

Residue, Filterable (TDS) @180C SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533478													
WG533478PBW	PBW	12/13/21 19:00				U	mg/L		-20	20			
WG533478LCSW	LCSW	12/13/21 19:02	PCN64712	1000		992	mg/L	99	80	120			
L70399-03DUP	DUP	12/13/21 19:31			1080	1084	mg/L				0	10	
L70421-03DUP	DUP	12/13/21 20:00			342	350	mg/L				2	10	

Selenium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534781													
WG534781ICV	ICV	01/11/22 13:26	MS220105-1	.05		.05299	mg/L	106	90	110			
WG534781ICB	ICB	01/11/22 13:29				U	mg/L		-0.00022	0.00022			
WG534781LFB	LFB	01/11/22 13:31	MS211216-3	.05		.04834	mg/L	97	85	115			
L70399-03AS	AS	01/11/22 13:39	MS211216-3	.05	U	.0524	mg/L	105	70	130			
L70399-03ASD	ASD	01/11/22 13:41	MS211216-3	.05	U	0548	mg/L	110	70	130	4	20	

Sodium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534225													
WG534225ICV	ICV	12/29/21 20:11	II211214-2	100		100.95	mg/L	101	95	105			
WG534225ICB	ICB	12/29/21 20:16				U	mg/L		-0.6	0.6			
WG534225LFB	LFB	12/29/21 20:29	II211228-2	100.0086		99.03	mg/L	99	85	115			
L70399-02AS	AS	12/29/21 20:38	II211228-2	100.0086	2.84	98.82	mg/L	96	85	115			
L70399-02ASD	ASD	12/29/21 20:41	II211228-2	100.0086	2.84	109.9	mg/L	107	85	115	11	20	

Sulfate D516-02/-07/-11 - TURBIDIMETRIC

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534306													
WG534306ICB	ICB	12/30/21 15:19				U	mg/L		-3	3			
WG534306ICV	ICV	12/30/21 15:19	WI211230-3	19.9		19.1	mg/L	96	90	110			
WG534306LFB	LFB	12/30/21 15:58	WI211230-5	9.95		9.6	mg/L	96	90	110			
L70403-01DUP	DUP	12/30/21 16:02			6.8	3.8	mg/L				57	20	RA
L70401-03AS	AS	12/30/21 16:25	SO4TURB25X	1000	87100	87802.8	mg/L	70	90	110			M3

EFRC

ACZ Project ID: **L70399**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Thallium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534781													
WG534781ICV	ICV	01/11/22 13:26	MS220105-1	.05		.05178	mg/L	104	90	110			
WG534781ICB	ICB	01/11/22 13:29				U	mg/L		-0.00022	0.00022			
WG534781LFB	LFB	01/11/22 13:31	MS211216-3	.05		.04711	mg/L	94	85	115			
L70399-03AS	AS	01/11/22 13:39	MS211216-3	.05	.0003	.05038	mg/L	100	70	130			
L70399-03ASD	ASD	01/11/22 13:41	MS211216-3	.05	.0003	.05261	mg/L	105	70	130	4	20	

Uranium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534781													
WG534781ICV	ICV	01/11/22 13:26	MS220105-1	.05		.05227	mg/L	105	90	110			
WG534781ICB	ICB	01/11/22 13:29				U	mg/L		-0.00022	0.00022			
WG534781LFB	LFB	01/11/22 13:31	MS211216-3	.05		.04681	mg/L	94	85	115			
L70399-03AS	AS	01/11/22 13:39	MS211216-3	.05	.00522	.0581	mg/L	106	70	130			
L70399-03ASD	ASD	01/11/22 13:41	MS211216-3	.05	.00522	.0621	mg/L	114	70	130	7	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L70399**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L70399-01	WG533686	Mercury, dissolved	M245.1 CVAA	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG534306	Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
			D516-02/-07/-11 - TURBIDIMETRIC	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
L70399-02	WG533686	Mercury, dissolved	M245.1 CVAA	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG534306	Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
			D516-02/-07/-11 - TURBIDIMETRIC	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
L70399-03	WG533738	Conductivity @25C	SM2510B	ZW	Method deviation. The sample was centrifuged prior to analysis due to high solid content.
	WG533686	Mercury, dissolved	M245.1 CVAA	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG533738	pH	SM4500H+ B	ZW	Method deviation. The sample was centrifuged prior to analysis due to high solid content.
	WG534306	Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
			D516-02/-07/-11 - TURBIDIMETRIC	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
WG533738	Total Alkalinity	SM2320B - Titration	ZW	Method deviation. The sample was centrifuged prior to analysis due to high solid content.	
L70399-04	WG533686	Mercury, dissolved	M245.1 CVAA	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG534306	Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
			D516-02/-07/-11 - TURBIDIMETRIC	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
L70399-05	WG533686	Mercury, dissolved	M245.1 CVAA	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG534306	Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
			D516-02/-07/-11 - TURBIDIMETRIC	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L70399**



No certification qualifiers associated with this analysis

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L70399
 Date Received: 12/10/2021 10:55
 Received By: mjj
 Date Printed: 12/13/2021

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody form or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?		X	
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody form complete and accurate?	X		
7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples?	X		
A change was made in the Report to: Name and Sample ID: Date:Time Line 1 section prior to ACZ custody.			
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Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits? ¹	X		
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?	X		

NA indicates Not Applicable

Chain of Custody Related Remarks

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L70399
 Date Received: 12/10/2021 10:55
 Received By: mjj
 Date Printed: 12/13/2021

Client Contact Remarks

Shipping Containers

Cooler Id	Temp (°C)	Temp Criteria (°C)	Rad (µR/Hr)	Custody Seal Intact?
5248	2.6	<=6.0	15	Yes

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

¹ The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na₂S₂O₃ preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).



Laboratories, Inc. L70399

CHAIN of CUSTODY

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Report to:

Name: Kathy Weinel
Company: Energy Fuels
E-mail: kweinel@energyfuels.com

Address: 225 Union Blvd. Suite 600
Lakewood, CO 80928
Telephone: 303-389-4134

Copy of Report to:

Name:
Company:

E-mail:
Telephone:

Invoice to:

Name: Kathy Weinel
Company: Energy Fuels
E-mail: kweinel@energyfuels.com

Address: 225 Union Blvd, Suite 600
Lakewood, CO 80928
Telephone: 303-389-4134

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES [X] NO []

If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified

Are samples for SDWA Compliance Monitoring? Yes [] No [X]

If yes, please include state forms. Results will be reported to PQL for Colorado.

Sampler's Name: Matt Germansen Sampler's Site Information State AZ Zip code 86005 Time Zone AZ

*Sampler's Signature: [Signature] I attest to the authenticity and validity of this sample. I understand that intentionally mislabeling the time/date/location or tampering with the sample in anyway, is considered fraud and punishable by State Law.

PROJECT INFORMATION

ANALYSES REQUESTED (attach list or use quote number)

Quote #: PP-GW-IND APP
PO#:
Reporting state for compliance testing:
Check box if samples include NRC licensed material?

Table with columns for # of Containers and rows for sample analysis. Contains handwritten text 'SEE QUOTE'.

Table with columns for SAMPLE IDENTIFICATION, DATE:TIME, and Matrix. Lists samples MW-01, MW-02, MW-03, RW-01, RW-01 DUP.

Matrix SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS

See Quote, Normal TAT, No Rad's
4 Bottles/sample

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

Table with columns RELINQUISHED BY, DATE:TIME, RECEIVED BY, DATE:TIME. Includes signature of Matthew Germansen and date 12/9/21.

L70399 Chain of Custody

the 1990s, the number of people in the world who are under 15 years of age is expected to increase from 1.1 billion to 1.5 billion.

There are a number of reasons why the world's population is growing so rapidly. One of the main reasons is that the number of children born to each woman has increased. This is due to a number of factors, including the fact that women are now having children at a younger age, and that there is a higher birth rate in developing countries.

Another reason why the world's population is growing so rapidly is that the number of people who are surviving to old age has increased. This is due to a number of factors, including the fact that there is a higher life expectancy in developed countries, and that there is a higher death rate in developing countries.

There are a number of other reasons why the world's population is growing so rapidly. One of the main reasons is that the number of people who are migrating from developing countries to developed countries has increased. This is due to a number of factors, including the fact that there is a higher standard of living in developed countries, and that there is a higher death rate in developing countries.

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There are a number of other reasons why the world's population is growing so rapidly. One of the main reasons is that the number of people who are migrating from developing countries to developed countries has increased. This is due to a number of factors, including the fact that there is a higher standard of living in developed countries, and that there is a higher death rate in developing countries.

Another reason why the world's population is growing so rapidly is that the number of people who are surviving to old age has increased. This is due to a number of factors, including the fact that there is a higher life expectancy in developed countries, and that there is a higher death rate in developing countries.

There are a number of other reasons why the world's population is growing so rapidly. One of the main reasons is that the number of people who are migrating from developing countries to developed countries has increased. This is due to a number of factors, including the fact that there is a higher standard of living in developed countries, and that there is a higher death rate in developing countries.

March 28, 2022

Report to:

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

Bill to:

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

Project ID:

ACZ Project ID: L71800

Kathy Weinel:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on March 04, 2022. This project has been assigned to ACZ's project number, L71800. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L71800. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after April 27, 2022. If the samples are determined to be hazardous, additional charges apply for disposal (typically \$11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.



Max Janicek has reviewed and approved this report.



Energy Fuels Resources (USA) Inc.

Project ID:

Sample ID: RW01-03012022

ACZ Sample ID: **L71800-05**

Date Sampled: 03/03/22 15:45

Date Received: 03/04/22

Sample Matrix: Groundwater

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, dissolved	M200 8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	03/21/22 18:17	mfm
Arsenic, dissolved	M200 8 ICP-MS	1	0.00021	B		mg/L	0.0002	0.001	03/21/22 18:17	mfm
Barium, dissolved	M200 7 ICP	1	0.0873			mg/L	0.007	0.035	03/22/22 23:22	wtc
Beryllium, dissolved	M200 8 ICP-MS	1	<0.00008	U	*	mg/L	0.00008	0.00025	03/21/22 18:17	mfm
Cadmium, dissolved	M200 8 ICP-MS	1	<0.00005	U		mg/L	0.00005	0.00025	03/21/22 18:17	mfm
Calcium, dissolved	M200 7 ICP	1	43.5		*	mg/L	0.1	0.5	03/22/22 23:22	wtc
Chromium, dissolved	M200 7 ICP	1	<0.02	U		mg/L	0.02	0.05	03/22/22 23:22	wtc
Lead, dissolved	M200 8 ICP-MS	1	0.00038	B		mg/L	0.0001	0.0005	03/21/22 18:17	mfm
Magnesium, dissolved	M200 7 ICP	1	29.7			mg/L	0.2	1	03/22/22 23:22	wtc
Mercury, dissolved	M245 1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	03/08/22 14:44	mlh
Nickel, dissolved	M200 7 ICP	1	0.0149	B		mg/L	0.008	0.04	03/22/22 23:22	wtc
Potassium, dissolved	M200 7 ICP	1	2.24			mg/L	0.2	1	03/22/22 23:22	wtc
Selenium, dissolved	M200 8 ICP-MS	1	0.00546			mg/L	0.0001	0.00025	03/21/22 18:17	mfm
Sodium, dissolved	M200 7 ICP	1	5.82			mg/L	0.2	1	03/22/22 23:22	wtc
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	03/21/22 18:17	mfm
Uranium, dissolved	M200 8 ICP-MS	1	0.0148			mg/L	0.0001	0.0005	03/21/22 18:17	mfm

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	208			mg/L	2	20	03/09/22 0:00	jck
Carbonate as CaCO3		1	8.2	B		mg/L	2	20	03/09/22 0:00	jck
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	03/09/22 0:00	jck
Total Alkalinity		1	216			mg/L	2	20	03/09/22 0:00	jck
Conductivity @25C	SM2510B	1	430			umhos/cm	1	10	03/09/22 3:27	jck
Fluoride	SM4500F-C	1	0.31	B		mg/L	0.15	0.35	03/21/22 17:51	ernk
Nitrate/Nitrite as N	M353 2 - H2SO4 preserved	1	0.076	B	*	mg/L	0.02	0.1	03/27/22 0:45	pjb
pH (lab)	SM4500H+ B									
pH		1	8.3	H		units	0.1	0.1	03/09/22 0:00	jck
pH measured at		1	21.4			C	0.1	0.1	03/09/22 0:00	jck
Residue, Filterable (TDS) @180C	SM2540C	1	228			mg/L	20	40	03/08/22 15:56	anc
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	1	22.5		*	mg/L	1	5	03/24/22 8:59	mjl1

Arizona license number: AZ0102

EFRC

ACZ Project ID: **L71800**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Alkalinity as CaCO3 SM2320B - Titration

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG537908													
WG537908PBW1	PBW	03/08/22 20:06				18.2	mg/L		-20	20			
WG537908LCSW3	LCSW	03/08/22 20:23	WC220223-1	820.0001		782.8	mg/L	95	90	110			
WG537908LCSW6	LCSW	03/08/22 22:49	WC220223-1	820.0001		815.6	mg/L	99	90	110			
WG537908PBW2	PBW	03/08/22 22:56				4.3	mg/L		-20	20			
WG537908LCSW9	LCSW	03/09/22 2:13	WC220223-1	820.0001		829.8	mg/L	101	90	110			
WG537908PBW3	PBW	03/09/22 2:20				4.6	mg/L		-20	20			
L71802-01DUP	DUP	03/09/22 4:03			114	127.7	mg/L				11	20	
WG537908LCSW12	LCSW	03/09/22 5:56	WC220223-1	820.0001		836.1	mg/L	102	90	110			
WG537908PBW4	PBW	03/09/22 6:03				3.9	mg/L		-20	20			
WG537908LCSW15	LCSW	03/09/22 9:27	WC220223-1	820.0001		844.8	mg/L	103	90	110			

Antimony, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG538663													
WG538663ICV	ICV	03/21/22 17:43	MS220125-1	.0201		.01989	mg/L	99	90	110			
WG538663ICB	ICB	03/21/22 17:45				.00053	mg/L		-0.00088	0.00088			
WG538663LFB	LFB	03/21/22 17:47	MS220228-9	.01		.00983	mg/L	98	85	115			
L71750-04AS	AS	03/21/22 17:56	MS220228-9	.01	U	.0082	mg/L	82	70	130			
L71750-04ASD	ASD	03/21/22 17:58	MS220228-9	.01	U	.00848	mg/L	85	70	130	3	20	
L71893-01AS	AS	03/21/22 18:24	MS220228-9	.01	U	.00989	mg/L	99	70	130			
L71893-01ASD	ASD	03/21/22 18:26	MS220228-9	.01	U	.01017	mg/L	102	70	130	3	20	

Arsenic, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG538663													
WG538663ICV	ICV	03/21/22 17:43	MS220125-1	.05		.05071	mg/L	101	90	110			
WG538663ICB	ICB	03/21/22 17:45				U	mg/L		-0.00044	0.00044			
WG538663LFB	LFB	03/21/22 17:47	MS220228-9	.05005		.05163	mg/L	103	85	115			
L71750-04AS	AS	03/21/22 17:56	MS220228-9	.05005	U	.05269	mg/L	105	70	130			
L71750-04ASD	ASD	03/21/22 17:58	MS220228-9	.05005	U	.05312	mg/L	106	70	130	1	20	
L71893-01AS	AS	03/21/22 18:24	MS220228-9	.05005	0007	.05714	mg/L	113	70	130			
L71893-01ASD	ASD	03/21/22 18:26	MS220228-9	.05005	0007	.05447	mg/L	107	70	130	5	20	

Barium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG538689													
WG538689ICV	ICV	03/22/22 22:45	II220311-1	2		1.9638	mg/L	98	95	105			
WG538689ICB	ICB	03/22/22 22:51				U	mg/L		-0.021	0.021			
WG538689LFB	LFB	03/22/22 23:04	II220314-2	.5		.5029	mg/L	101	85	115			
L71800-02AS	AS	03/22/22 23:10	II220314-2	.5	.0254	.5363	mg/L	102	85	115			
L71800-02ASD	ASD	03/22/22 23:13	II220314-2	.5	.0254	.5315	mg/L	101	85	115	1	20	
WG538686													
WG538686ICV	ICV	03/24/22 3:45	II220311-1	2		1.9827	mg/L	99	95	105			
WG538686ICB	ICB	03/24/22 3:51				U	mg/L		-0.021	0.021			
WG538686LFB	LFB	03/24/22 4:03	II220314-2	.5		.5286	mg/L	106	85	115			
L71800-01AS	AS	03/24/22 4:15	II220314-2	.5	.0275	.5611	mg/L	107	85	115			
L71800-01ASD	ASD	03/24/22 4:18	II220314-2	.5	.0275	.5695	mg/L	108	85	115	1	20	

EFRC

ACZ Project ID: **L71800**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Beryllium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG538663													
WG538663ICV	ICV	03/21/22 17:43	MS220125-1	.05		.052074	mg/L	104	90	110			
WG538663ICB	ICB	03/21/22 17:45				U	mg/L		-0.000176	0.000176			
WG538663LFB	LFB	03/21/22 17:47	MS220228-9	.05005		.051897	mg/L	104	85	115			
L71750-04AS	AS	03/21/22 17:56	MS220228-9	.05005	U	.054472	mg/L	109	70	130			
L71750-04ASD	ASD	03/21/22 17:58	MS220228-9	.05005	U	.054112	mg/L	108	70	130	1	20	
L71893-01AS	AS	03/21/22 18:24	MS220228-9	.05005	U	.057541	mg/L	115	70	130			
L71893-01ASD	ASD	03/21/22 18:26	MS220228-9	.05005	U	.056666	mg/L	113	70	130	2	20	

Cadmium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG538663													
WG538663ICV	ICV	03/21/22 17:43	MS220125-1	.05		.053555	mg/L	107	90	110			
WG538663ICB	ICB	03/21/22 17:45				U	mg/L		-0.00011	0.00011			
WG538663LFB	LFB	03/21/22 17:47	MS220228-9	.05005		.052398	mg/L	105	85	115			
L71750-04AS	AS	03/21/22 17:56	MS220228-9	.05005	U	.051514	mg/L	103	70	130			
L71750-04ASD	ASD	03/21/22 17:58	MS220228-9	.05005	U	.050386	mg/L	101	70	130	2	20	
L71893-01AS	AS	03/21/22 18:24	MS220228-9	.05005	.000063	.052237	mg/L	104	70	130			
L71893-01ASD	ASD	03/21/22 18:26	MS220228-9	.05005	.000063	.049091	mg/L	98	70	130	6	20	

Calcium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG538689													
WG538689ICV	ICV	03/22/22 22:45	II220311-1	100		99.07	mg/L	99	95	105			
WG538689ICB	ICB	03/22/22 22:51				U	mg/L		-0.3	0.3			
WG538689LFB	LFB	03/22/22 23:04	II220314-2	67.99026		64.04	mg/L	94	85	115			
L71800-02AS	AS	03/22/22 23:10	II220314-2	67.99026	116	173.3	mg/L	84	85	115			MA
L71800-02ASD	ASD	03/22/22 23:13	II220314-2	67.99026	116	174.7	mg/L	86	85	115	1	20	
WG538686													
WG538686ICV	ICV	03/24/22 3:45	II220311-1	100		99.33	mg/L	99	95	105			
WG538686ICB	ICB	03/24/22 3:51				U	mg/L		-0.3	0.3			
WG538686LFB	LFB	03/24/22 4:03	II220314-2	67.99026		66.77	mg/L	98	85	115			
L71800-01AS	AS	03/24/22 4:15	II220314-2	67.99026	120	179.9	mg/L	88	85	115			
L71800-01ASD	ASD	03/24/22 4:18	II220314-2	67.99026	120	182.4	mg/L	92	85	115	1	20	

EFRC

ACZ Project ID: **L71800**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Chromium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG538689													
WG538689ICV	ICV	03/22/22 22:45	II220311-1	2		1.951	mg/L	98	95	105			
WG538689ICB	ICB	03/22/22 22:51				U	mg/L		-0.06	0.06			
WG538689LFB	LFB	03/22/22 23:04	II220314-2	.5005		.507	mg/L	101	85	115			
L71800-02AS	AS	03/22/22 23:10	II220314-2	.5005	U	.511	mg/L	102	85	115			
L71800-02ASD	ASD	03/22/22 23:13	II220314-2	.5005	U	.507	mg/L	101	85	115	1	20	
WG538686													
WG538686ICV	ICV	03/24/22 3:45	II220311-1	2		1.962	mg/L	98	95	105			
WG538686ICB	ICB	03/24/22 3:51				U	mg/L		-0.06	0.06			
WG538686LFB	LFB	03/24/22 4:03	II220314-2	.5005		.534	mg/L	107	85	115			
L71800-01AS	AS	03/24/22 4:15	II220314-2	.5005	U	.53	mg/L	106	85	115			
L71800-01ASD	ASD	03/24/22 4:18	II220314-2	.5005	U	.544	mg/L	109	85	115	3	20	

Conductivity @25C

SM2510B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG537908													
WG537908LCSW2	LCSW	03/08/22 20:12	PCN65017	1408		1379	umhos/cm	98	90	110			
WG537908LCSW5	LCSW	03/08/22 22:37	PCN65017	1408		1377	umhos/cm	98	90	110			
WG537908LCSW8	LCSW	03/09/22 2:00	PCN65017	1408		1365	umhos/cm	97	90	110			
L71802-01DUP	DUP	03/09/22 4:03			307	308	umhos/cm				0	20	
WG537908LCSW11	LCSW	03/09/22 5:43	PCN65017	1408		1361	umhos/cm	97	90	110			
WG537908LCSW14	LCSW	03/09/22 9:14	PCN65017	1408		1350	umhos/cm	96	90	110			

Fluoride

SM4500F-C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG538615													
WG538615ICV	ICV	03/21/22 11:12	WC220314-1	2.008		1.98	mg/L	99	90	110			
WG538615ICB	ICB	03/21/22 11:20				U	mg/L		-0.3	0.3			
WG538654													
WG538654ICV	ICV	03/21/22 15:43	WC220314-1	2.008		2.01	mg/L	100	90	110			
WG538654ICB	ICB	03/21/22 15:51				U	mg/L		-0.3	0.3			
WG538654LFB1	LFB	03/21/22 16:03	WC220104-2	5.02		5.32	mg/L	106	90	110			
L71750-06AS	AS	03/21/22 16:29	WC220104-2	5.02	.31	5.48	mg/L	103	90	110			
L71750-06ASD	ASD	03/21/22 16:37	WC220104-2	5.02	.31	5.58	mg/L	105	90	110	2	20	
WG538654LFB2	LFB	03/21/22 19:45	WC220104-2	5.02		5.25	mg/L	105	90	110			

Lead, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG538663													
WG538663ICV	ICV	03/21/22 17:43	MS220125-1	.05		.05285	mg/L	106	90	110			
WG538663ICB	ICB	03/21/22 17:45				U	mg/L		-0.00022	0.00022			
WG538663LFB	LFB	03/21/22 17:47	MS220228-9	.0501		.05198	mg/L	104	85	115			
L71750-04AS	AS	03/21/22 17:56	MS220228-9	.0501	U	.0513	mg/L	102	70	130			
L71750-04ASD	ASD	03/21/22 17:58	MS220228-9	.0501	U	.05166	mg/L	103	70	130	1	20	
L71893-01AS	AS	03/21/22 18:24	MS220228-9	.0501	.00036	.05764	mg/L	114	70	130			
L71893-01ASD	ASD	03/21/22 18:26	MS220228-9	.0501	.00036	.05842	mg/L	116	70	130	1	20	

EFRC

ACZ Project ID: **L71800**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Magnesium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG538689													
WG538689ICV	ICV	03/22/22 22:45	I1220311-1	100		95.61	mg/L	96	95	105			
WG538689ICB	ICB	03/22/22 22:51				U	mg/L		-0.6	0.6			
WG538689LFB	LFB	03/22/22 23:04	I1220314-2	49.99828		49.14	mg/L	98	85	115			
L71800-02AS	AS	03/22/22 23:10	I1220314-2	49.99828	57.4	103.5	mg/L	92	85	115			
L71800-02ASD	ASD	03/22/22 23:13	I1220314-2	49.99828	57.4	104	mg/L	93	85	115	0	20	
WG538686													
WG538686ICV	ICV	03/24/22 3:45	I1220311-1	100		95.49	mg/L	95	95	105			
WG538686ICB	ICB	03/24/22 3:51				U	mg/L		-0.6	0.6			
WG538686LFB	LFB	03/24/22 4:03	I1220314-2	49.99828		50.7	mg/L	101	85	115			
L71800-01AS	AS	03/24/22 4:15	I1220314-2	49.99828	58.8	107.2	mg/L	97	85	115			
L71800-01ASD	ASD	03/24/22 4:18	I1220314-2	49.99828	58.8	108.8	mg/L	100	85	115	1	20	

Mercury, dissolved

M245.1 CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG537796													
WG537796ICV	ICV	03/08/22 10:41	HG220301-3	.00501		.00475	mg/L	95	95	105			
WG537796ICB	ICB	03/08/22 10:42				U	mg/L		-0.0002	0.0002			
WG537871													
WG537871LRB	LFB	03/08/22 14:25				U	mg/L		-0.00044	0.00044			
WG537871LFB	LFB	03/08/22 14:26	HG220301-6	.002002		.00187	mg/L	93	85	115			
L71721-02LFM	LFM	03/08/22 14:29	HG220301-6	.002002	.0002	.00205	mg/L	92	85	115			
L71721-02LFMD	LFMD	03/08/22 14:30	HG220301-6	.002002	.0002	.00204	mg/L	92	85	115	0	20	
L71800-03LFM	LFM	03/08/22 14:41	HG220301-6	.002002	U	.00183	mg/L	91	85	115			
L71800-03LFMD	LFMD	03/08/22 14:42	HG220301-6	.002002	U	.00182	mg/L	91	85	115	1	20	

Nickel, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG538689													
WG538689ICV	ICV	03/22/22 22:45	I1220311-1	2		1.965	mg/L	98	95	105			
WG538689ICB	ICB	03/22/22 22:51				U	mg/L		-0.024	0.024			
WG538689LFB	LFB	03/22/22 23:04	I1220314-2	.5005		.5135	mg/L	103	85	115			
L71800-02AS	AS	03/22/22 23:10	I1220314-2	.5005	.0854	.593	mg/L	101	85	115			
L71800-02ASD	ASD	03/22/22 23:13	I1220314-2	.5005	.0854	.5889	mg/L	101	85	115	1	20	
WG538686													
WG538686ICV	ICV	03/24/22 3:45	I1220311-1	2		1.958	mg/L	98	95	105			
WG538686ICB	ICB	03/24/22 3:51				U	mg/L		-0.024	0.024			
WG538686LFB	LFB	03/24/22 4:03	I1220314-2	.5005		.533	mg/L	106	85	115			
L71800-01AS	AS	03/24/22 4:15	I1220314-2	.5005	.083	.5984	mg/L	103	85	115			
L71800-01ASD	ASD	03/24/22 4:18	I1220314-2	.5005	.083	6.147	mg/L	106	85	115	3	20	

EFRC

ACZ Project ID: **L71800**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Nitrate/Nitrite as N

M353.2 - H2SO4 preserved

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG539062													
WG539062ICV	ICV	03/26/22 19:51	WI220301-7	2.4161		2.302	mg/L	95	90	110			
WG539062ICB	ICB	03/26/22 19:52				U	mg/L		-0.02	0.02			
WG539067													
WG539067LFB1	LFB	03/27/22 0:35	WI211001-5	2		2.052	mg/L	103	90	110			
L71799-01AS	AS	03/27/22 0:37	WI211001-5	2	.281	2.415	mg/L	107	90	110			
L71800-01DUP	DUP	03/27/22 0:40			U	U	mg/L				0	20	RA
WG539067LFB2	LFB	03/27/22 1:15	WI211001-5	2		2.07	mg/L	104	90	110			

pH (lab)

SM4500H+ B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG537908													
WG537908LCSW1	LCSW	03/08/22 20:10	PCN64057	6		6.1	units	102	5.9	6.1			
WG537908LCSW4	LCSW	03/08/22 22:35	PCN64057	6		6.1	units	102	5.9	6.1			
WG537908LCSW7	LCSW	03/09/22 1:59	PCN64057	6		6.1	units	102	5.9	6.1			
L71802-01DUP	DUP	03/09/22 4:03			8.3	8.3	units				0	20	
WG537908LCSW10	LCSW	03/09/22 5:42	PCN64057	6		6.1	units	102	5.9	6.1			
WG537908LCSW13	LCSW	03/09/22 9:12	PCN64057	6		6.1	units	102	5.9	6.1			

Potassium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG538689													
WG538689ICV	ICV	03/22/22 22:45	I1220311-1	20		19.68	mg/L	98	95	105			
WG538689ICB	ICB	03/22/22 22:51				U	mg/L		-0.6	0.6			
WG538689LFB	LFB	03/22/22 23:04	I1220314-2	99.95169		100.9	mg/L	101	85	115			
L71800-02AS	AS	03/22/22 23:10	I1220314-2	99.95169	1.61	105.2	mg/L	104	85	115			
L71800-02ASD	ASD	03/22/22 23:13	I1220314-2	99.95169	1.61	104.4	mg/L	103	85	115	1	20	
WG538686													
WG538686ICV	ICV	03/24/22 3:45	I1220311-1	20		19.65	mg/L	98	95	105			
WG538686ICB	ICB	03/24/22 3:51				U	mg/L		-0.6	0.6			
WG538686LFB	LFB	03/24/22 4:03	I1220314-2	99.95169		104.1	mg/L	104	85	115			
L71800-01AS	AS	03/24/22 4:15	I1220314-2	99.95169	1.72	108.3	mg/L	107	85	115			
L71800-01ASD	ASD	03/24/22 4:18	I1220314-2	99.95169	1.72	109.9	mg/L	108	85	115	1	20	

Residue, Filterable (TDS) @180C

SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG537903													
WG537903PBW	PBW	03/08/22 15:41				U	mg/L		-20	20			
WG537903LCSW	LCSW	03/08/22 15:43	PCN64711	1000		972	mg/L	97	80	120			
L71807-05DUP	DUP	03/08/22 16:12			1790	1792	mg/L				0	10	

EFRC

ACZ Project ID: **L71800**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Selenium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG538663													
WG538663ICV	ICV	03/21/22 17:43	MS220125-1	.05		.05154	mg/L	103	90	110			
WG538663ICB	ICB	03/21/22 17:45				U	mg/L		-0.00022	0.00022			
WG538663LFB	LFB	03/21/22 17:47	MS220228-9	.05		.05086	mg/L	102	85	115			
L71750-04AS	AS	03/21/22 17:56	MS220228-9	.05	00017	.05449	mg/L	109	70	130			
L71750-04ASD	ASD	03/21/22 17:58	MS220228-9	.05	.00017	05426	mg/L	108	70	130	0	20	
L71893-01AS	AS	03/21/22 18:24	MS220228-9	.05	.00388	.0612	mg/L	115	70	130			
L71893-01ASD	ASD	03/21/22 18:26	MS220228-9	.05	.00388	.05997	mg/L	112	70	130	2	20	

Sodium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG538689													
WG538689ICV	ICV	03/22/22 22:45	II220311-1	100		99.38	mg/L	99	95	105			
WG538689ICB	ICB	03/22/22 22:51				U	mg/L		-0.6	0.6			
WG538689LFB	LFB	03/22/22 23:04	II220314-2	100.0039		101.2	mg/L	101	85	115			
L71800-02AS	AS	03/22/22 23:10	II220314-2	100.0039	3.18	106.9	mg/L	104	85	115			
L71800-02ASD	ASD	03/22/22 23:13	II220314-2	100.0039	3.18	106.2	mg/L	103	85	115	1	20	
WG538686													
WG538686ICV	ICV	03/24/22 3:45	II220311-1	100		98.98	mg/L	99	95	105			
WG538686ICB	ICB	03/24/22 3:51				U	mg/L		-0.6	0.6			
WG538686LFB	LFB	03/24/22 4:03	II220314-2	100.0039		104.9	mg/L	105	85	115			
L71800-01AS	AS	03/24/22 4:15	II220314-2	100.0039	3.26	110.5	mg/L	107	85	115			
L71800-01ASD	ASD	03/24/22 4:18	II220314-2	100.0039	3.26	112	mg/L	109	85	115	1	20	

Sulfate

D516-02/-07/-11 - TURBIDIMETRIC

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG538879													
WG538879ICB	ICB	03/24/22 8:36				U	mg/L		-3	3			
WG538879ICV	ICV	03/24/22 8:36	WI220316-7	20.46		20.3	mg/L	99	90	110			
WG538879LFB	LFB	03/24/22 9:01	WI211230-5	9.95		10	mg/L	101	90	110			
L71772-02AS	AS	03/24/22 9:20	SO4TURB25X	50	3750	3738.1	mg/L	-24	90	110			M3
L71771-02DUP	DUP	03/24/22 9:30			1570	1549.4	mg/L				1	20	

Thallium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG538663													
WG538663ICV	ICV	03/21/22 17:43	MS220125-1	.05		.05264	mg/L	105	90	110			
WG538663ICB	ICB	03/21/22 17:45				U	mg/L		-0.00022	0.00022			
WG538663LFB	LFB	03/21/22 17:47	MS220228-9	.05		.05083	mg/L	102	85	115			
L71750-04AS	AS	03/21/22 17:56	MS220228-9	.05	U	.05152	mg/L	103	70	130			
L71750-04ASD	ASD	03/21/22 17:58	MS220228-9	.05	U	.05201	mg/L	104	70	130	1	20	
L71893-01AS	AS	03/21/22 18:24	MS220228-9	.05	U	.05827	mg/L	117	70	130			
L71893-01ASD	ASD	03/21/22 18:26	MS220228-9	.05	U	.0586	mg/L	117	70	130	1	20	

EFRC

ACZ Project ID: **L71800**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Uranium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG538663													
WG538663ICV	ICV	03/21/22 17:43	MS220125-1	.05		.05248	mg/L	105	90	110			
WG538663ICB	ICB	03/21/22 17:45				U	mg/L		-0.00022	0.00022			
WG538663LFB	LFB	03/21/22 17:47	MS220228-9	.05		.05207	mg/L	104	85	115			
L71750-04AS	AS	03/21/22 17:56	MS220228-9	.05	.00835	.06014	mg/L	104	70	130			
L71750-04ASD	ASD	03/21/22 17:58	MS220228-9	.05	.00835	.06021	mg/L	104	70	130	0	20	
L71893-01AS	AS	03/21/22 18:24	MS220228-9	.05	.00615	.06704	mg/L	122	70	130			
L71893-01ASD	ASD	03/21/22 18:26	MS220228-9	.05	.00615	.06735	mg/L	122	70	130	0	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L71800**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L71800-01	WG538663	Beryllium, dissolved	M200.8 ICP-MS	VC	CCV recovery was above the acceptance limits. Target analyte was not detected in the sample [$<$ MDL].
	WG539067	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation ($<$ 10x MDL).
	WG538879	Sulfate	D516-02-07-11 - TURBIDIMETRIC	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
L71800-02	WG538663	Beryllium, dissolved	M200.8 ICP-MS	VC	CCV recovery was above the acceptance limits. Target analyte was not detected in the sample [$<$ MDL].
	WG538689	Calcium, dissolved	M200.7 ICP	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
	WG539067	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation ($<$ 10x MDL).
L71800-03	WG538663	Beryllium, dissolved	M200.8 ICP-MS	VC	CCV recovery was above the acceptance limits. Target analyte was not detected in the sample [$<$ MDL].
	WG538689	Calcium, dissolved	M200.7 ICP	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
	WG539067	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation ($<$ 10x MDL).
L71800-04	WG538663	Beryllium, dissolved	M200.8 ICP-MS	VC	CCV recovery was above the acceptance limits. Target analyte was not detected in the sample [$<$ MDL].
	WG538689	Calcium, dissolved	M200.7 ICP	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
	WG537908	Conductivity @25C	SM2510B	ZW	Method deviation The sample was centrifuged prior to analysis due to high solid content.
L71800-05	WG539067	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation ($<$ 10x MDL).
	WG537908	pH	SM4500H+ B	ZW	Method deviation. The sample was centrifuged prior to analysis due to high solid content.
	WG538879	Sulfate	D516-02-07-11 - TURBIDIMETRIC	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
L71800-06	WG537908	Total Alkalinity	SM2320B - Titration	ZW	Method deviation. The sample was centrifuged prior to analysis due to high solid content.
	WG538663	Beryllium, dissolved	M200.8 ICP-MS	VC	CCV recovery was above the acceptance limits. Target analyte was not detected in the sample [$<$ MDL].
	WG538689	Calcium, dissolved	M200.7 ICP	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
L71800-07	WG539067	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation ($<$ 10x MDL).
	WG538879	Sulfate	D516-02-07-11 - TURBIDIMETRIC	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L71800**

No certification qualifiers associated with this analysis

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L71800

Date Received: 03/04/2022 09:20

Received By:

Date Printed: 3/7/2022

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody form or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?		X	
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody form complete and accurate?	X		
7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples?		X	

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits? ¹	X		
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?	X		

NA indicates Not Applicable

Chain of Custody Related Remarks

The 'Relinquished By' field on the COC was not completed. The project manager is contacting the client.

Client Contact Remarks

Shipping Containers

Cooler Id	Temp (°C)	Temp Criteria (°C)	Rad (µR/Hr)	Custody Seal Intact?
3455	2.2	<=6.0	15	Yes

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L71800
Date Received: 03/04/2022 09:20
Received By:
Date Printed: 3/7/2022

¹ The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na₂S₂O₃ preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).



Laboratories, Inc. L71800

CHAIN of CUSTODY

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Report to:

Name: Kathy Weinel
Company: Energy Fuels
E-mail: kweinel@energyfuels.com

Address: 225 Union Blvd. Suite 600
Lakewood, CO 80928
Telephone: 303-389-4134

Copy of Report to:

Name:
Company:

E-mail:
Telephone:

Invoice to:

Name: Kathy Weinel
Company: Energy Fuels
E-mail: kweinel@energyfuels.com

Address: 225 Union Blvd, Suite 600
Lakewood, CO 80928
Telephone: 303-389-4134

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES [X] NO

Are samples for SDWA Compliance Monitoring? Yes No [X]

Sampler's Name: Matt Germons
Sampler's Site Information State AZ Zip code Time Zone

*Sampler's Signature: [Signature]
*I attest to the authenticity and validity of this sample. I understand that intentionally mislabeling the time/date/location or tampering with the sample in anyway, is considered fraud and punishable by State Law.

PROJECT INFORMATION

ANALYSES REQUESTED (attach list or use quote number)

Quote #: PP-GW-ENDAPP

PO#:

Reporting state for compliance testing:

Check box if samples include NRC licensed material?

SAMPLE IDENTIFICATION DATE:TIME Matrix

Table with 3 columns: SAMPLE IDENTIFICATION, DATE:TIME, Matrix. Rows include MW01-03032022, MW02-02282022, MW03-03022022, RW01-03012022.

of Containers

See Quote
No Rads
See Quote

Matrix SW (Surface Water) · GW (Ground Water) WW (Waste Water) DW (Drinking Water) · SL (Sludge) SO (Soil) · OL (Oil) Other (Specify)

REMARKS

See Quote, No Rads, Normal TAT

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY DATE:TIME RECEIVED BY DATE TIME

Signature and date fields for Relinquished and Received.



L71800 Chain of Custody

April 21, 2021

Report to:

Kathy Weinel

Energy Fuels Resources (USA) Inc.

225 Union Blvd. , Suite 600

Lakewood, CO 80228

Bill to:

Accounts Payable

Energy Fuels Resources (USA) Inc.

225 Union Blvd. , Suite 600

Lakewood, CO 80228

Project ID:

ACZ Project ID: L64813

Kathy Weinel:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on March 18, 2021. This project has been assigned to ACZ's project number, L64813. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L64813. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after May 21, 2021. If the samples are determined to be hazardous, additional charges apply for disposal (typically \$11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.



Max Janicek has reviewed and approved this report.



Energy Fuels Resources (USA) Inc.
 Project ID:
 Sample ID: CYN-MON-1-2021-Q1

ACZ Sample ID: **L64813-01**
 Date Sampled: 03/16/21 13:20
 Date Received: 03/18/21
 Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Nitrogen, total Kjeldahl	M351.2 - Block Digestor								03/30/21 10:24	md

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, dissolved	M200.8 ICP-MS	1	0.00718			mg/L	0.0004	0.002	03/31/21 16:41	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	0.126		*	mg/L	0.0002	0.001	03/25/21 14:00	mfm
Barium, dissolved	M200.7 ICP	1	0.0215	B		mg/L	0.007	0.035	03/25/21 15:58	jlw
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	03/25/21 14:00	mfm
Cadmium, dissolved	M200.8 ICP-MS	1	<0.00005	U		mg/L	0.00005	0.00025	03/25/21 14:00	mfm
Calcium, dissolved	M200.7 ICP	1	115			mg/L	0.1	0.5	03/25/21 15:58	jlw
Chromium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	03/25/21 15:58	jlw
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	03/25/21 14:00	mfm
Magnesium, dissolved	M200.7 ICP	1	59.6			mg/L	0.2	1	03/25/21 15:58	jlw
Mercury, dissolved	M245.1 CVA	1	<0.0002	U		mg/L	0.0002	0.001	03/23/21 13:03	nih/ae
Nickel, dissolved	M200.7 ICP	1	0.276			mg/L	0.008	0.04	03/25/21 15:58	jlw
Potassium, dissolved	M200.7 ICP	1	1.55			mg/L	0.2	1	03/25/21 15:58	jlw
Selenium, dissolved	M200.8 ICP-MS	1	0.00012	B		mg/L	0.0001	0.00025	03/25/21 14:00	mfm
Sodium, dissolved	M200.7 ICP	1	2.93			mg/L	0.2	1	03/25/21 15:58	jlw
Thallium, dissolved	M200.8 ICP-MS	1	0.00185			mg/L	0.0001	0.0005	03/25/21 14:00	mfm
Uranium, dissolved	M200.8 ICP-MS	1	0.0437			mg/L	0.0001	0.0005	03/25/21 14:00	mfm

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	216			mg/L	2	20	03/19/21 0:00	eep
Carbonate as CaCO3		1	<2	U		mg/L	2	20	03/19/21 0:00	eep
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	03/19/21 0:00	eep
Total Alkalinity		1	216			mg/L	2	20	03/19/21 0:00	eep
Conductivity @25C	SM2510B	1	925			umhos/cm	1	10	03/19/21 23:15	eep
Cyanide, Free	D6888-09/OIA-1677-09	1	<0.003	U	*	mg/L	0.003	0.01	03/26/21 14:49	wtc
Fluoride	M300.0 - Ion Chromatography	5	<0.25	U	*	mg/L	0.25	1.25	03/26/21 19:07	krh
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2		<0.02	UH		mg/L	0.02	0.1	04/21/21 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.02	UH	*	mg/L	0.02	0.1	03/18/21 23:11	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.01	UH	*	mg/L	0.01	0.05	03/18/21 23:11	pjb
Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digestor	1	<0.2	U	*	mg/L	0.2	0.5	03/31/21 22:31	pjb
pH (lab)	SM4500H+ B									
pH		1	8.1	H		units	0.1	0.1	03/19/21 0:00	eep
pH measured at		1	22.1			C	0.1	0.1	03/19/21 0:00	eep
Residue, Filterable (TDS) @180C	SM2540C	1	664		*	mg/L	20	40	03/19/21 19:02	jck
Sulfate	M300.0 - Ion Chromatography	5	310		*	mg/L	2	10	03/26/21 19:07	krh
Total Nitrogen, calc	Calculation: NO3NO2+TKN		<0.1	U		mg/L	0.1	0.5	04/21/21 0:00	calc

Energy Fuels Resources (USA) Inc.

Project ID:

Sample ID: CYN-MON-1-2021-Q1

ACZ Sample ID: **L64813-01**

Date Sampled: 03/16/21 13:20

Date Received: 03/18/21

Sample Matrix: *Groundwater*

Arizona license number: **AZ0102**

Energy Fuels Resources (USA) Inc.
Project ID:
Sample ID: CYN-MON-1-2021-Q1-DUP

ACZ Sample ID: **L64813-02**
Date Sampled: 03/16/21 13:20
Date Received: 03/18/21
Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Nitrogen, total Kjeldahl	M351.2 - Block Digestor								03/30/21 10:53	md

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, dissolved	M200.8 ICP-MS	1	0.00716			mg/L	0.0004	0.002	03/31/21 16:43	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	0.127		*	mg/L	0.0002	0.001	03/25/21 14:02	mfm
Barium, dissolved	M200.7 ICP	1	0.0217	B		mg/L	0.007	0.035	03/25/21 16:02	jlw
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	03/25/21 14:02	mfm
Cadmium, dissolved	M200.8 ICP-MS	1	<0.00005	U		mg/L	0.00005	0.00025	03/25/21 14:02	mfm
Calcium, dissolved	M200.7 ICP	1	116			mg/L	0.1	0.5	03/25/21 16:02	jlw
Chromium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	03/25/21 16:02	jlw
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	03/25/21 14:02	mfm
Magnesium, dissolved	M200.7 ICP	1	59.8			mg/L	0.2	1	03/25/21 16:02	jlw
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	03/29/21 15:20	mlh
Nickel, dissolved	M200.7 ICP	1	0.275			mg/L	0.008	0.04	03/25/21 16:02	jlw
Potassium, dissolved	M200.7 ICP	1	1.58			mg/L	0.2	1	03/25/21 16:02	jlw
Selenium, dissolved	M200.8 ICP-MS	1	0.00014	B		mg/L	0.0001	0.00025	03/25/21 14:02	mfm
Sodium, dissolved	M200.7 ICP	1	2.95			mg/L	0.2	1	03/25/21 16:02	jlw
Thallium, dissolved	M200.8 ICP-MS	1	0.00181			mg/L	0.0001	0.0005	03/25/21 14:02	mfm
Uranium, dissolved	M200.8 ICP-MS	1	0.0430			mg/L	0.0001	0.0005	03/25/21 14:02	mfm

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	215			mg/L	2	20	03/19/21 0:00	eep
Carbonate as CaCO3		1	<2	U		mg/L	2	20	03/19/21 0:00	eep
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	03/19/21 0:00	eep
Total Alkalinity		1	215			mg/L	2	20	03/19/21 0:00	eep
Conductivity @25C	SM2510B	1	923			umhos/cm	1	10	03/19/21 23:24	eep
Cyanide, Free	D6888-09/OIA-1677-09	1	<0.003	U	*	mg/L	0.003	0.01	03/26/21 14:51	wtc
Fluoride	M300.0 - Ion Chromatography	5	<0.25	U	*	mg/L	0.25	1.25	03/26/21 19:24	krh
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2		<0.02	UH		mg/L	0.02	0.1	04/21/21 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.02	UH	*	mg/L	0.02	0.1	03/18/21 23:14	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.01	UH	*	mg/L	0.01	0.05	03/18/21 23:14	pjb
Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digestor	1	<0.2	U	*	mg/L	0.2	0.5	03/31/21 22:33	pjb
pH (lab)	SM4500H+ B									
pH		1	8.1	H		units	0.1	0.1	03/19/21 0:00	eep
pH measured at		1	22.2			C	0.1	0.1	03/19/21 0:00	eep
Residue, Filterable (TDS) @180C	SM2540C	1	654		*	mg/L	20	40	03/19/21 19:05	jck
Sulfate	M300.0 - Ion Chromatography	5	307		*	mg/L	2	10	03/26/21 19:24	krh
Total Nitrogen, calc	Calculation: NO3NO2+TKN		<0.1	U		mg/L	0.1	0.5	04/21/21 0:00	calc

Energy Fuels Resources (USA) Inc.

Project ID:

Sample ID: CYN-MON-1-2021-Q1-DUP

ACZ Sample ID: **L64813-02**

Date Sampled: 03/16/21 13:20

Date Received: 03/18/21

Sample Matrix: *Groundwater*

Arizona license number: **AZ0102**

Energy Fuels Resources (USA) Inc.

Project ID:

Sample ID: CYN-MON-2-2021-Q1

ACZ Sample ID: **L64813-03**

Date Sampled: 03/16/21 16:15

Date Received: 03/18/21

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Nitrogen, total Kjeldahl	M351.2 - Block Digestor								03/30/21 11:22	md

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, dissolved	M200.8 ICP-MS	1	0.00072	B		mg/L	0.0004	0.002	03/31/21 16:45	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	0.00527		*	mg/L	0.0002	0.001	03/25/21 14:08	mfm
Barium, dissolved	M200.7 ICP	1	0.0532			mg/L	0.007	0.035	03/25/21 16:13	jlw
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	03/25/21 14:08	mfm
Cadmium, dissolved	M200.8 ICP-MS	1	<0.00005	U		mg/L	0.00005	0.00025	03/25/21 14:08	mfm
Calcium, dissolved	M200.7 ICP	1	75.0			mg/L	0.1	0.5	03/25/21 16:13	jlw
Chromium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	03/25/21 16:13	jlw
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	03/25/21 14:08	mfm
Magnesium, dissolved	M200.7 ICP	1	38.1			mg/L	0.2	1	03/25/21 16:13	jlw
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	03/29/21 15:21	mlh
Nickel, dissolved	M200.7 ICP	1	0.0238	B		mg/L	0.008	0.04	03/25/21 16:13	jlw
Potassium, dissolved	M200.7 ICP	1	3.94			mg/L	0.2	1	03/25/21 16:13	jlw
Selenium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.00025	03/25/21 14:08	mfm
Sodium, dissolved	M200.7 ICP	1	2.52			mg/L	0.2	1	03/25/21 16:13	jlw
Thallium, dissolved	M200.8 ICP-MS	1	0.00152			mg/L	0.0001	0.0005	03/25/21 14:08	mfm
Uranium, dissolved	M200.8 ICP-MS	1	0.00957			mg/L	0.0001	0.0005	03/25/21 14:08	mfm

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	244			mg/L	2	20	03/19/21 0:00	eep
Carbonate as CaCO3		1	<2	U		mg/L	2	20	03/19/21 0:00	eep
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	03/19/21 0:00	eep
Total Alkalinity		1	244			mg/L	2	20	03/19/21 0:00	eep
Conductivity @25C	SM2510B	1	622			umhos/cm	1	10	03/19/21 23:35	eep
Cyanide, Free	D6888-09/OIA-1677-09	1	<0.003	U	*	mg/L	0.003	0.01	03/26/21 14:53	wtc
Fluoride	M300.0 - Ion Chromatography	2	<0.1	U	*	mg/L	0.1	0.5	03/29/21 16:23	krh
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2		<0.02	UH		mg/L	0.02	0.1	04/21/21 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.02	UH	*	mg/L	0.02	0.1	03/18/21 23:20	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.01	UH	*	mg/L	0.01	0.05	03/18/21 23:20	pjb
Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digestor	1	<0.2	U	*	mg/L	0.2	0.5	03/31/21 22:35	pjb
pH (lab)	SM4500H+ B									
pH		1	8.2	H		units	0.1	0.1	03/19/21 0:00	eep
pH measured at		1	22.0			C	0.1	0.1	03/19/21 0:00	eep
Residue, Filterable (TDS) @180C	SM2540C	1	388		*	mg/L	20	40	03/19/21 19:08	jck
Sulfate	M300.0 - Ion Chromatography	2	109		*	mg/L	0.8	4	03/29/21 16:23	krh
Total Nitrogen, calc	Calculation: NO3NO2+TKN		<0.1	U		mg/L	0.1	0.5	04/21/21 0:00	calc

Energy Fuels Resources (USA) Inc.

Project ID:

Sample ID: CYN-MON-2-2021-Q1

ACZ Sample ID: **L64813-03**

Date Sampled: 03/16/21 16:15

Date Received: 03/18/21

Sample Matrix: *Groundwater*

Arizona license number: **AZ0102**

Energy Fuels Resources (USA) Inc.

Project ID:

Sample ID: CYN-MON-3-2021-Q1

ACZ Sample ID: **L64813-04**

Date Sampled: 03/17/21 13:30

Date Received: 03/18/21

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Nitrogen, total Kjeldahl	M351.2 - Block Digestor								03/30/21 11:37	md

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	03/31/21 16:50	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	0.0288		*	mg/L	0.0002	0.001	03/25/21 14:09	mfm
Barium, dissolved	M200.7 ICP	1	0.0093	B		mg/L	0.007	0.035	03/25/21 16:22	jlw
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	03/25/21 14:09	mfm
Cadmium, dissolved	M200.8 ICP-MS	1	<0.00005	U		mg/L	0.00005	0.00025	03/25/21 14:09	mfm
Calcium, dissolved	M200.7 ICP	1	176			mg/L	0.1	0.5	03/25/21 16:22	jlw
Chromium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	03/25/21 16:22	jlw
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	03/25/21 14:09	mfm
Magnesium, dissolved	M200.7 ICP	1	87.4			mg/L	0.2	1	03/25/21 16:22	jlw
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	03/29/21 15:22	mlh
Nickel, dissolved	M200.7 ICP	1	0.357			mg/L	0.008	0.04	03/25/21 16:22	jlw
Potassium, dissolved	M200.7 ICP	1	2.08			mg/L	0.2	1	03/25/21 16:22	jlw
Selenium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.00025	03/25/21 14:09	mfm
Sodium, dissolved	M200.7 ICP	1	3.48			mg/L	0.2	1	03/25/21 16:22	jlw
Thallium, dissolved	M200.8 ICP-MS	1	0.00114			mg/L	0.0001	0.0005	03/25/21 14:09	mfm
Uranium, dissolved	M200.8 ICP-MS	1	0.00901			mg/L	0.0001	0.0005	03/25/21 14:09	mfm

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	172			mg/L	2	20	03/19/21 0:00	eep
Carbonate as CaCO3		1	<2	U		mg/L	2	20	03/19/21 0:00	eep
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	03/19/21 0:00	eep
Total Alkalinity		1	172			mg/L	2	20	03/19/21 0:00	eep
Conductivity @25C	SM2510B	1	1280			umhos/cm	1	10	03/19/21 23:44	eep
Cyanide, Free	D6888-09/OIA-1677-09	1	<0.003	U	*	mg/L	0.003	0.01	03/26/21 14:55	wtc
Fluoride	M300.0 - Ion Chromatography	10	<0.5	U	*	mg/L	0.5	2.5	03/26/21 20:36	krh
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2		<0.02	U		mg/L	0.02	0.1	04/21/21 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.02	U	*	mg/L	0.02	0.1	03/18/21 23:21	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.011	B	*	mg/L	0.01	0.05	03/18/21 23:21	pjb
Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digestor	1	<0.2	U	*	mg/L	0.2	0.5	03/31/21 22:36	pjb
pH (lab)	SM4500H+ B									
pH		1	7.8	H		units	0.1	0.1	03/19/21 0:00	eep
pH measured at		1	21.9			C	0.1	0.1	03/19/21 0:00	eep
Residue, Filterable (TDS) @180C	SM2540C	1	1050		*	mg/L	20	40	03/19/21 19:10	jck
Sulfate	M300.0 - Ion Chromatography	20	634		*	mg/L	8	40	03/29/21 16:41	krh
Total Nitrogen, calc	Calculation: NO3NO2+TKN		<0.1	U		mg/L	0.1	0.5	04/21/21 0:00	calc

Energy Fuels Resources (USA) Inc.

Project ID:

Sample ID: CYN-MON-3-2021-Q1

ACZ Sample ID: **L64813-04**

Date Sampled: 03/17/21 13:30

Date Received: 03/18/21

Sample Matrix: Groundwater

Arizona license number: AZ0102

Energy Fuels Resources (USA) Inc.

Project ID:

Sample ID: PP WELL-2021-Q1

ACZ Sample ID: **L64813-05**

Date Sampled: 03/17/21 13:12

Date Received: 03/18/21

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Nitrogen, total Kjeldahl	M351.2 - Block Digestor								03/30/21 11:51	md

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	03/31/21 16:52	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	0.00021	B	*	mg/L	0.0002	0.001	03/25/21 14:11	mfm
Barium, dissolved	M200.7 ICP	1	0.0845			mg/L	0.007	0.035	03/25/21 16:25	jlw
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	03/25/21 14:11	mfm
Cadmium, dissolved	M200.8 ICP-MS	1	<0.00005	U		mg/L	0.00005	0.00025	03/25/21 14:11	mfm
Calcium, dissolved	M200.7 ICP	1	43.1			mg/L	0.1	0.5	03/25/21 16:25	jlw
Chromium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	03/25/21 16:25	jlw
Lead, dissolved	M200.8 ICP-MS	1	0.00030	B		mg/L	0.0001	0.0005	03/25/21 14:11	mfm
Magnesium, dissolved	M200.7 ICP	1	30.2			mg/L	0.2	1	03/25/21 16:25	jlw
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	03/29/21 15:23	mlh
Nickel, dissolved	M200.7 ICP	1	0.0083	B		mg/L	0.008	0.04	03/25/21 16:25	jlw
Potassium, dissolved	M200.7 ICP	1	2.09			mg/L	0.2	1	03/25/21 16:25	jlw
Selenium, dissolved	M200.8 ICP-MS	1	0.00508			mg/L	0.0001	0.00025	03/25/21 14:11	mfm
Sodium, dissolved	M200.7 ICP	1	5.68			mg/L	0.2	1	03/25/21 16:25	jlw
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	03/25/21 14:11	mfm
Uranium, dissolved	M200.8 ICP-MS	1	0.0135			mg/L	0.0001	0.0005	03/25/21 14:11	mfm

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	213			mg/L	2	20	03/19/21 0:00	eep
Carbonate as CaCO3		1	<2	U		mg/L	2	20	03/19/21 0:00	eep
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	03/19/21 0:00	eep
Total Alkalinity		1	213			mg/L	2	20	03/19/21 0:00	eep
Conductivity @25C	SM2510B	1	430			umhos/cm	1	10	03/19/21 23:54	eep
Cyanide, Free	D6888-09/OIA-1677-09	1	<0.003	U	*	mg/L	0.003	0.01	03/26/21 14:57	wtc
Fluoride	M300.0 - Ion Chromatography	1	0.265		*	mg/L	0.05	0.25	03/26/21 20:54	krh
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2		0.10			mg/L	0.02	0.1	04/21/21 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.101		*	mg/L	0.02	0.1	03/18/21 23:22	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.01	U	*	mg/L	0.01	0.05	03/18/21 23:22	pjb
Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digestor	1	<0.2	U	*	mg/L	0.2	0.5	03/31/21 22:38	pjb
pH (lab)	SM4500H+ B									
pH		1	8.3	H		units	0.1	0.1	03/19/21 0:00	eep
pH measured at		1	21.7			C	0.1	0.1	03/19/21 0:00	eep
Residue, Filterable (TDS) @180C	SM2540C	1	238		*	mg/L	20	40	03/19/21 19:13	jck
Sulfate	M300.0 - Ion Chromatography	1	18.8		*	mg/L	0.4	2	03/26/21 20:54	krh
Total Nitrogen, calc	Calculation: NO3NO2+TKN		0.101	B		mg/L	0.1	0.5	04/21/21 0:00	calc

Energy Fuels Resources (USA) Inc.

Project ID:

Sample ID: PP WELL-2021-Q1

ACZ Sample ID: **L64813-05**

Date Sampled: 03/17/21 13:12

Date Received: 03/18/21

Sample Matrix: *Groundwater*

Arizona license number: AZ0102

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L64813**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Alkalinity as CaCO3

SM2320B - Titration

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516164													
WG516164PBW1	PBW	03/19/21 19:02				2.2	mg/L		-20	20			
WG516164LCSW3	LCSW	03/19/21 19:21	WC210305-1	820.0001		792	mg/L	97	90	110			
WG516164LCSW6	LCSW	03/19/21 22:38	WC210305-1	820.0001		782.5	mg/L	95	90	110			
WG516164PBW2	PBW	03/19/21 22:45				6.3	mg/L		-20	20			
L64814-03DUP	DUP	03/20/21 0:30			52	52.1	mg/L				0	20	
WG516164LCSW9	LCSW	03/20/21 2:04	WC210305-1	820.0001		799.2	mg/L	97	90	110			
WG516164PBW3	PBW	03/20/21 2:12				7.6	mg/L		-20	20			
WG516164LCSW15	LCSW	03/20/21 6:54	WC210305-1	820.0001		801.7	mg/L	98	90	110			

Antimony, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516755													
WG516755ICV	ICV	03/31/21 16:36	MS210330-3	.0201		.0187	mg/L	93	90	110			
WG516755ICB	ICB	03/31/21 16:38				U	mg/L		-0.00088	0.00088			
WG516755LFB	LFB	03/31/21 16:39	MS210312-6	.01		.00967	mg/L	97	85	115			
L64813-03AS	AS	03/31/21 16:47	MS210312-6	.01	.00072	.00973	mg/L	90	70	130			
L64813-03ASD	ASD	03/31/21 16:48	MS210312-6	.01	.00072	.0092	mg/L	85	70	130	6	20	

Arsenic, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516462													
WG516462ICV	ICV	03/25/21 13:52	MS210115-2	.05		.04851	mg/L	97	90	110			
WG516462ICB	ICB	03/25/21 13:53				U	mg/L		-0.00044	0.00044			
WG516462LFB	LFB	03/25/21 13:55	MS210312-6	.05005		.04921	mg/L	98	85	115			
L64813-02AS	AS	03/25/21 14:04	MS210312-6	.05005	.127	.17887	mg/L	104	70	130			
L64813-02ASD	ASD	03/25/21 14:06	MS210312-6	.05005	.127	.16001	mg/L	66	70	130	11	20	MA

Barium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516438													
WG516438ICV	ICV	03/25/21 14:31	II210317-1	2		1.963	mg/L	98	95	105			
WG516438ICB	ICB	03/25/21 14:38				U	mg/L		-0.021	0.021			
WG516438LFB	LFB	03/25/21 14:51	II210319-2	.5		.5078	mg/L	102	85	115			
L64813-03AS	AS	03/25/21 16:16	II210319-2	.5	.0532	.5704	mg/L	103	85	115			
L64813-03ASD	ASD	03/25/21 16:19	II210319-2	.5	.0532	.5649	mg/L	102	85	115	1	20	

Beryllium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516462													
WG516462ICV	ICV	03/25/21 13:52	MS210115-2	.05		.049266	mg/L	99	90	110			
WG516462ICB	ICB	03/25/21 13:53				U	mg/L		-0.000176	0.000176			
WG516462LFB	LFB	03/25/21 13:55	MS210312-6	.05005		.050382	mg/L	101	85	115			
L64813-02AS	AS	03/25/21 14:04	MS210312-6	.05005	U	.050115	mg/L	100	70	130			
L64813-02ASD	ASD	03/25/21 14:06	MS210312-6	.05005	U	.049928	mg/L	100	70	130	0	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L64813**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Cadmium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516462													
WG516462ICV	ICV	03/25/21 13:52	MS210115-2	.05		.052248	mg/L	104	90	110			
WG516462ICB	ICB	03/25/21 13:53				U	mg/L		-0.00011	0.00011			
WG516462LFB	LFB	03/25/21 13:55	MS210312-6	.05005		.050556	mg/L	101	85	115			
L64813-02AS	AS	03/25/21 14:04	MS210312-6	.05005	U	.052808	mg/L	106	70	130			
L64813-02ASD	ASD	03/25/21 14:06	MS210312-6	.05005	U	.049007	mg/L	98	70	130	7	20	

Calcium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516438													
WG516438ICV	ICV	03/25/21 14:31	II210317-1	100		98.08	mg/L	98	95	105			
WG516438ICB	ICB	03/25/21 14:38				U	mg/L		-0.3	0.3			
WG516438LFB	LFB	03/25/21 14:51	II210319-2	68.00934		70.91	mg/L	104	85	115			
L64813-03AS	AS	03/25/21 16:16	II210319-2	68.00934	75	143.1	mg/L	100	85	115			
L64813-03ASD	ASD	03/25/21 16:19	II210319-2	68.00934	75	142.4	mg/L	99	85	115	0	20	

Chromium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516438													
WG516438ICV	ICV	03/25/21 14:31	II210317-1	2		1.977	mg/L	99	95	105			
WG516438ICB	ICB	03/25/21 14:38				U	mg/L		-0.03	0.03			
WG516438LFB	LFB	03/25/21 14:51	II210319-2	.502		.517	mg/L	103	85	115			
L64813-03AS	AS	03/25/21 16:16	II210319-2	.502	U	.516	mg/L	103	85	115			
L64813-03ASD	ASD	03/25/21 16:19	II210319-2	.502	U	.515	mg/L	103	85	115	0	20	

Conductivity @25C

SM2510B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516164													
WG516164LCSW2	LCSW	03/19/21 19:09	PCN63121	1410		1451	umhos/cm	103	90	110			
WG516164LCSW5	LCSW	03/19/21 22:26	PCN63121	1410		1436	umhos/cm	102	90	110			
L64814-03DUP	DUP	03/20/21 0:30			427	429	umhos/cm				0	20	
WG516164LCSW8	LCSW	03/20/21 1:51	PCN63121	1410		1430	umhos/cm	101	90	110			
WG516164LCSW11	LCSW	03/20/21 5:20	PCN63121	1410		1405	umhos/cm	100	90	110			
WG516164LCSW14	LCSW	03/20/21 6:40	PCN63121	1410		1394	umhos/cm	99	90	110			

Cyanide, Free

D6888-09/OIA-1677-09

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516410													
WG516410ICV1	ICV	03/25/21 13:02	WI210318-16	.3003		.2911	mg/L	97	90	110			
WG516410ICB1	ICB	03/25/21 13:04				U	mg/L		-0.003	0.003			
L58827-46AS	AS	03/25/21 13:12	WI210318-6	.1001	U	.0781	mg/L	78	90	110			MC
L58827-46ASD	ASD	03/25/21 13:14	WI210318-6	.1001	U	.0822	mg/L	82	90	110	5	20	MC
WG516410ICV	ICV	03/26/21 14:41	WI210318-16	.3003		.3196	mg/L	106	90	110			
WG516410ICB	ICB	03/26/21 14:43				U	mg/L		-0.003	0.003			
WG516410LFB	LFB	03/26/21 15:13	WI210318-6	.1001		.1102	mg/L	110	90	110			
L64874-01AS	AS	03/26/21 15:21	WI210318-6	.1001	U	.1066	mg/L	106	90	110			
L64874-01ASD	ASD	03/26/21 15:23	WI210318-6	.1001	U	.1071	mg/L	107	90	110	0	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L64813**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Fluoride

M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG514879													
WG514879ICV	ICV	02/23/21 17:29	WI210223-3	4.004		4.189	mg/L	105	90	110			
WG514879ICB	ICB	02/23/21 17:47				U	mg/L		-0.05	0.05			
WG516512													
WG516512LFB1	LFB	03/26/21 17:01	WI201018-4	1.5		1.469	mg/L	98	90	110			
L64811-01DUP	DUP	03/26/21 17:37			U	U	mg/L				0	20	RA
L64812-01AS	AS	03/26/21 18:49	WI201018-4	15	22.8	36.646	mg/L	92	90	110			
WG516512LFB2	LFB	03/27/21 1:41	WI201018-4	1.5		1.476	mg/L	98	90	110			

Lead, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516462													
WG516462ICV	ICV	03/25/21 13:52	MS210115-2	.05		.04878	mg/L	98	90	110			
WG516462ICB	ICB	03/25/21 13:53				U	mg/L		-0.00022	0.00022			
WG516462LFB	LFB	03/25/21 13:55	MS210312-6	.05005		.04833	mg/L	97	85	115			
L64813-02AS	AS	03/25/21 14:04	MS210312-6	.05005	U	.04942	mg/L	99	70	130			
L64813-02ASD	ASD	03/25/21 14:06	MS210312-6	.05005	U	.04974	mg/L	99	70	130	1	20	

Magnesium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516438													
WG516438ICV	ICV	03/25/21 14:31	II210317-1	100		97.97	mg/L	98	95	105			
WG516438ICB	ICB	03/25/21 14:38				U	mg/L		-0.6	0.6			
WG516438LFB	LFB	03/25/21 14:51	II210319-2	50.00226		51.23	mg/L	102	85	115			
L64813-03AS	AS	03/25/21 16:16	II210319-2	50.00226	38.1	88	mg/L	100	85	115			
L64813-03ASD	ASD	03/25/21 16:19	II210319-2	50.00226	38.1	87.74	mg/L	99	85	115	0	20	

Mercury, dissolved

M245.1 CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516274													
WG516274ICV	ICV	03/23/21 12:08	HG210316-2	.005		.00501	mg/L	100	95	105			
WG516274ICB	ICB	03/23/21 12:09				U	mg/L		-0.0002	0.0002			
WG516275													
WG516275LRB	LRB	03/23/21 12:47				U	mg/L		-0.00044	0.00044			
WG516275LFB	LFB	03/23/21 12:48	HG210315-3	.002002		.002	mg/L	100	85	115			
L64813-01LFM	LFM	03/23/21 13:04	HG210315-3	.002002	U	.00202	mg/L	101	85	115			
L64813-01LFMD	LFMD	03/23/21 13:05	HG210315-3	.002002	U	.002	mg/L	100	85	115	1	20	
WG516555													
WG516555ICV	ICV	03/29/21 12:08	HG210316-2	.005		.00491	mg/L	98	90	110			
WG516555ICB	ICB	03/29/21 12:09				U	mg/L		-0.0006	0.0006			
WG516547													
WG516547LRB	LRB	03/29/21 15:09				U	mg/L		-0.00044	0.00044			
WG516547LFB	LFB	03/29/21 15:10	HG210326-3	.002002		.00206	mg/L	103	85	115			
L64811-01LFM	LFM	03/29/21 15:11	HG210326-3	.002002	U	.0021	mg/L	105	85	115			
L64811-01LFMD	LFMD	03/29/21 15:12	HG210326-3	.002002	U	.00211	mg/L	105	85	115	0	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L64813**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Nickel, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516438													
WG516438ICV	ICV	03/25/21 14:31	II210317-1	2		1.961	mg/L	98	95	105			
WG516438ICB	ICB	03/25/21 14:38				U	mg/L		-0.024	0.024			
WG516438LFB	LFB	03/25/21 14:51	II210319-2	.502		.5088	mg/L	101	85	115			
L64813-03AS	AS	03/25/21 16:16	II210319-2	.502	.0238	.533	mg/L	101	85	115			
L64813-03ASD	ASD	03/25/21 16:19	II210319-2	.502	.0238	.532	mg/L	101	85	115	0	20	

Nitrate/Nitrite as N, dissolved

M353.2 - Automated Cadmium Reduction

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516093													
WG516093ICV	ICV	03/18/21 22:43	WI210302-17	2.416		2.39	mg/L	99	90	110			
WG516093ICB	ICB	03/18/21 22:44				U	mg/L		-0.02	0.02			
WG516093LFB	LFB	03/18/21 22:48	WI201001-11	2		2.012	mg/L	101	90	110			
L64811-04AS	AS	03/18/21 23:10	WI201001-11	2	U	2.013	mg/L	101	90	110			
L64813-01DUP	DUP	03/18/21 23:13			U	U	mg/L				0	20	RA

Nitrite as N, dissolved

M353.2 - Automated Cadmium Reduction

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516093													
WG516093ICV	ICV	03/18/21 22:43	WI210302-17	.609		.604	mg/L	99	90	110			
WG516093ICB	ICB	03/18/21 22:44				U	mg/L		-0.01	0.01			
WG516093LFB	LFB	03/18/21 22:48	WI201001-11	1		1.021	mg/L	102	90	110			
L64811-04AS	AS	03/18/21 23:10	WI201001-11	1	U	1.019	mg/L	102	90	110			
L64813-01DUP	DUP	03/18/21 23:13			U	U	mg/L				0	20	RA

Nitrogen, total Kjeldahl

M351.2 - TKN by Block Digester

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516767													
WG516767ICV	ICV	03/31/21 22:26	WI210312-8	4		4.11	mg/L	103	90	110			
WG516767ICB	ICB	03/31/21 22:27				U	mg/L		-0.2	0.2			
WG516621LRB	LRB	03/31/21 22:29				U	mg/L		-0.2	0.2			
WG516621LFB	LFB	03/31/21 22:30	WI210204-2	2.5		2.51	mg/L	100	90	110			
L64813-01LFM	LFM	03/31/21 22:32	WI210204-2	2.5	U	2.36	mg/L	94	90	110			
L64813-02DUP	DUP	03/31/21 22:34			U	U	mg/L				0	20	RA

pH (lab)

SM4500H+ B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516164													
WG516164LCSW1	LCSW	03/19/21 19:07	PCN61687	6		6	units	100	5.9	6.1			
WG516164LCSW4	LCSW	03/19/21 22:24	PCN61687	6		6.1	units	102	5.9	6.1			
L64814-03DUP	DUP	03/20/21 0:30			8	8	units				0	20	
WG516164LCSW7	LCSW	03/20/21 1:49	PCN61687	6		6.1	units	102	5.9	6.1			
WG516164LCSW13	LCSW	03/20/21 6:39	PCN61687	6		6.1	units	102	5.9	6.1			

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L64813**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Potassium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516438													
WG516438ICV	ICV	03/25/21 14:31	II210317-1	20		19.68	mg/L	98	95	105			
WG516438ICB	ICB	03/25/21 14:38				U	mg/L		-0.6	0.6			
WG516438LFB	LFB	03/25/21 14:51	II210319-2	99.97791		102.7	mg/L	103	85	115			
L64813-03AS	AS	03/25/21 16:16	II210319-2	99.97791	3.94	107.8	mg/L	104	85	115			
L64813-03ASD	ASD	03/25/21 16:19	II210319-2	99.97791	3.94	106.6	mg/L	103	85	115	1	20	

Residue, Filterable (TDS) @180C SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516171													
WG516171PBW	PBW	03/19/21 18:55				U	mg/L		-20	20			
WG516171LCSW	LCSW	03/19/21 18:57	PCN62902	1000		998	mg/L	100	80	120			
L64816-04DUP	DUP	03/19/21 19:26			3260	3256	mg/L				0	10	

Selenium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516462													
WG516462ICV	ICV	03/25/21 13:52	MS210115-2	.05		.0494	mg/L	99	90	110			
WG516462ICB	ICB	03/25/21 13:53				U	mg/L		-0.00022	0.00022			
WG516462LFB	LFB	03/25/21 13:55	MS210312-6	.05		.04828	mg/L	97	85	115			
L64813-02AS	AS	03/25/21 14:04	MS210312-6	.05	.00014	.05416	mg/L	108	70	130			
L64813-02ASD	ASD	03/25/21 14:06	MS210312-6	.05	.00014	.05218	mg/L	104	70	130	4	20	

Sodium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516438													
WG516438ICV	ICV	03/25/21 14:31	II210317-1	100		97.57	mg/L	98	95	105			
WG516438ICB	ICB	03/25/21 14:38				U	mg/L		-0.6	0.6			
WG516438LFB	LFB	03/25/21 14:51	II210319-2	100.0235		101.6	mg/L	102	85	115			
L64813-03AS	AS	03/25/21 16:16	II210319-2	100.0235	2.52	105.6	mg/L	103	85	115			
L64813-03ASD	ASD	03/25/21 16:19	II210319-2	100.0235	2.52	104.6	mg/L	102	85	115	1	20	

Sulfate M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG514879													
WG514879ICV	ICV	02/23/21 17:29	WI210223-3	50		52.28	mg/L	105	90	110			
WG514879ICB	ICB	02/23/21 17:47				U	mg/L		-0.4	0.4			
WG516512													
WG516512LFB1	LFB	03/26/21 17:01	WI201018-4	30		30.37	mg/L	101	90	110			
L64811-01DUP	DUP	03/26/21 17:37			3.97	4.08	mg/L				3	20	RA
L64812-01AS	AS	03/26/21 18:49	WI201018-4	300	U	290.95	mg/L	97	90	110			
WG516512LFB2	LFB	03/27/21 1:41	WI201018-4	30		30.08	mg/L	100	90	110			

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L64813**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Thallium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516462													
WG516462ICV	ICV	03/25/21 13:52	MS210115-2	.05		.04783	mg/L	96	90	110			
WG516462ICB	ICB	03/25/21 13:53				U	mg/L		-0.00022	0.00022			
WG516462LFB	LFB	03/25/21 13:55	MS210312-6	.05		.04534	mg/L	91	85	115			
L64813-02AS	AS	03/25/21 14:04	MS210312-6	.05	.00181	.0482	mg/L	93	70	130			
L64813-02ASD	ASD	03/25/21 14:06	MS210312-6	.05	.00181	.04897	mg/L	94	70	130	2	20	

Uranium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516462													
WG516462ICV	ICV	03/25/21 13:52	MS210115-2	.05		.04774	mg/L	95	90	110			
WG516462ICB	ICB	03/25/21 13:53				U	mg/L		-0.00022	0.00022			
WG516462LFB	LFB	03/25/21 13:55	MS210312-6	.05		.04676	mg/L	94	85	115			
L64813-02AS	AS	03/25/21 14:04	MS210312-6	.05	.043	.09371	mg/L	101	70	130			
L64813-02ASD	ASD	03/25/21 14:06	MS210312-6	.05	.043	.09377	mg/L	102	70	130	0	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L64813**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L64813-01	WG516462	Arsenic, dissolved	M200.8 ICP-MS	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
	WG516410	Cyanide, Free	D6888-09/OIA-1677-09	MC	Recovery for matrix spike and matrix spike duplicate are outside of acceptance limits; recovery for the method control sample was acceptable.
	WG516512	Fluoride	M300.0 - Ion Chromatography	DC	Sample required dilution. Non-target analyte exceeded calibration range.
			M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG516093	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	HE	Analysis performed past holding time. Method holding time is less than or equal to 7 days and sample was received with less than half of the holding time remaining (refer to item C5 of ACZ's Terms & Conditions).
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			M353.2 - Automated Cadmium Reduction	HE	Analysis performed past holding time. Method holding time is less than or equal to 7 days and sample was received with less than half of the holding time remaining (refer to item C5 of ACZ's Terms & Conditions).
	WG516767	Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG516767	Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
WG516171	Residue, Filterable (TDS) @180C	SM2540C	N1	See Case Narrative.	
WG516512	Sulfate	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).	
L64813-02	WG516462	Arsenic, dissolved	M200.8 ICP-MS	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
	WG516410	Cyanide, Free	D6888-09/OIA-1677-09	MC	Recovery for matrix spike and matrix spike duplicate are outside of acceptance limits; recovery for the method control sample was acceptable.
	WG516512	Fluoride	M300.0 - Ion Chromatography	DC	Sample required dilution. Non-target analyte exceeded calibration range.
			M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG516093	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	HE	Analysis performed past holding time. Method holding time is less than or equal to 7 days and sample was received with less than half of the holding time remaining (refer to item C5 of ACZ's Terms & Conditions).
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			M353.2 - Automated Cadmium Reduction	HE	Analysis performed past holding time. Method holding time is less than or equal to 7 days and sample was received with less than half of the holding time remaining (refer to item C5 of ACZ's Terms & Conditions).
	WG516767	Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG516767	Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
WG516171	Residue, Filterable (TDS) @180C	SM2540C	N1	See Case Narrative.	
WG516512	Sulfate	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L64813**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION	
L64813-03	WG516462	Arsenic, dissolved	M200.8 ICP-MS	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.	
	WG516512	Fluoride	M300.0 - Ion Chromatography	DC	Sample required dilution. Non-target analyte exceeded calibration range.	
			M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).	
	WG516093	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	HE	Analysis performed past holding time. Method holding time is less than or equal to 7 days and sample was received with less than half of the holding time remaining (refer to item C5 of ACZ's Terms & Conditions).	
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).	
			Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	HE	Analysis performed past holding time. Method holding time is less than or equal to 7 days and sample was received with less than half of the holding time remaining (refer to item C5 of ACZ's Terms & Conditions).
				M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG516767	Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).	
	WG516171	Residue, Filterable (TDS) @180C	SM2540C	N1	See Case Narrative.	
	WG516512	Sulfate	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).	
L64813-04	WG516462	Arsenic, dissolved	M200.8 ICP-MS	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.	
	WG516512	Fluoride	M300.0 - Ion Chromatography	DC	Sample required dilution. Non-target analyte exceeded calibration range.	
			M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).	
	WG516093	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).	
			Nitrite as N, dissolved	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).	
	WG516767	Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).	
	WG516171	Residue, Filterable (TDS) @180C	SM2540C	N1	See Case Narrative.	
	WG516512	Sulfate	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L64813**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L64813-05	WG516462	Arsenic, dissolved	M200.8 ICP-MS	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
	WG516512	Fluoride	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG516093	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG516767	Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG516171	Residue, Filterable (TDS) @180C	SM2540C	N1	See Case Narrative.
	WG516512	Sulfate	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).

Energy Fuels Resources (USA) Inc.
 Project ID:
 Sample ID: CYN-MON-1-2021-Q1
 Locator:

ACZ Sample ID: **L64813-01**
 Date Sampled: 03/16/21 13:20
 Date Received: 03/18/21
 Sample Matrix: Groundwater

Combined Radium (total)
 Calculation (RA226 + RA228)

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Combined Radium (total)	04/21/21 14:24		4.1			pCi/L		calc

Gross Alpha Total, corrected
 Calculation

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Gross Alpha Total, corrected	04/21/21 14:24		-7.7			pCi/L		calc

Gross Alpha, total
 M900.0

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Gross Alpha, total	04/06/21 0:00		36	7.3	7.3	pCi/L	*	fdw

Radium 226, total
 M903.1

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 226, total	04/07/21 0:25		4.1	0.27	0.14	pCi/L		amk

Radium 228, total
 M904.0

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 228, total	04/07/21 13:29		-0.13	1.1	2.5	pCi/L	*	cer

Uranium, Isotopic Total
 Eichrom ACW03

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Uranium 234, total	04/19/21 17:13		33.5	5	1.6	pCi/L	*	amk
Uranium 235, total	04/19/21 17:13		-0.016	0.85	1.8	pCi/L	*	amk
Uranium 238, total	04/19/21 17:13		10.2	2.4	1.9	pCi/L	*	amk

Arizona license number: AZ0102

Energy Fuels Resources (USA) Inc.
 Project ID:
 Sample ID: CYN-MON-1-2021-Q1-DUP
 Locator:

ACZ Sample ID: **L64813-02**
 Date Sampled: 03/16/21 13:20
 Date Received: 03/18/21
 Sample Matrix: Groundwater

Combined Radium (total)
 Calculation (RA226 + RA228)

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Combined Radium (total)	04/21/21 14:24		7.2			pCi/L		calc

Gross Alpha Total, corrected
 Calculation

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Gross Alpha Total, corrected	04/21/21 14:24		3.0			pCi/L		calc

Gross Alpha, total
 M900.0

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Gross Alpha, total	04/06/21 0:00		45	7.9	9	pCi/L	*	fdw

Radium 226, total
 M903.1

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 226, total	04/07/21 0:27		4.6	0.31	0.19	pCi/L		amk

Radium 228, total
 M904.0

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 228, total	04/07/21 13:29		2.6	1.2	2.5	pCi/L	*	cer

Uranium, Isotopic Total
 Eichrom ACW03

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Uranium 234, total	04/19/21 17:13		29.1	4.5	2	pCi/L	*	amk
Uranium 235, total	04/19/21 17:13		0.942	0.98	1.5	pCi/L	*	amk
Uranium 238, total	04/19/21 17:13		12.9	2.7	2.1	pCi/L	*	amk

Arizona license number: AZ0102

Energy Fuels Resources (USA) Inc.
 Project ID:
 Sample ID: CYN-MON-2-2021-Q1
 Locator:

ACZ Sample ID: **L64813-03**
 Date Sampled: 03/16/21 16:15
 Date Received: 03/18/21
 Sample Matrix: Groundwater

Combined Radium (total)
 Calculation (RA226 + RA228)

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Combined Radium (total)	04/21/21 14:24		3.4			pCi/L		calc

Gross Alpha Total, corrected
 Calculation

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Gross Alpha Total, corrected	04/21/21 14:24		6.8			pCi/L		calc

Gross Alpha, total
 M900.0

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Gross Alpha, total	04/06/21 0:00		22	5.4	8	pCi/L	*	fdw

Radium 226, total
 M903.1

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 226, total	04/07/21 0:28		3.4	0.27	0.17	pCi/L		amk

Radium 228, total
 M904.0

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 228, total	04/07/21 13:29		2.7	2	4.5	pCi/L	*	cer

Uranium, Isotopic Total
 Eichrom ACW03

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Uranium 234, total	04/19/21 17:13		10	3.1	3.4	pCi/L	*	amk
Uranium 235, total	04/19/21 17:13		1.46	1.3	1.8	pCi/L	*	amk
Uranium 238, total	04/19/21 17:13		5.17	2.9	4.2	pCi/L	*	amk

Arizona license number: **AZ0102**

Energy Fuels Resources (USA) Inc.

Project ID:

Sample ID: CYN-MON-3-2021-Q1

Locator:

ACZ Sample ID: **L64813-04**

Date Sampled: 03/17/21 13:30

Date Received: 03/18/21

Sample Matrix: Groundwater

Combined Radium (total)

Prep Method:

Calculation (RA226 + RA228)

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Combined Radium (total)	04/21/21 14:24		1.6			pCi/L		calc

Gross Alpha Total, corrected

Prep Method:

Calculation

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Gross Alpha Total, corrected	04/21/21 14:24		-3.4			pCi/L		calc

Gross Alpha, total

Prep Method:

M900.0

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Gross Alpha, total	04/06/21 0:00		5	3.4	25	pCi/L	*	fdw

Radium 226, total

Prep Method:

M903.1

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 226, total	04/07/21 0:30		1.6	0.2	0.13	pCi/L		amk

Radium 228, total

Prep Method:

M904.0

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 228, total	04/07/21 13:29		0.25	0.81	2	pCi/L	*	cer

Uranium, Isotopic Total

Prep Method:

Eichrom ACW03

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Uranium 234, total	04/19/21 17:13		2.84	1.8	2.6	pCi/L	*	amk
Uranium 235, total	04/19/21 17:13		1.18	1.3	2.1	pCi/L	*	amk
Uranium 238, total	04/19/21 17:13		5.55	2.2	2.7	pCi/L	*	amk

Arizona license number: **AZ0102**

Energy Fuels Resources (USA) Inc.

Project ID:

Sample ID: PP WELL-2021-Q1

Locator:

ACZ Sample ID: **L64813-05**

Date Sampled: 03/17/21 13:12

Date Received: 03/18/21

Sample Matrix: Groundwater

Combined Radium (total)

Prep Method:

Calculation (RA226 + RA228)

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Combined Radium (total)	04/21/21 14:24		4.8			pCi/L		calc

Gross Alpha Total, corrected

Prep Method:

Calculation

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Gross Alpha Total, corrected	04/21/21 14:24		3.0			pCi/L		calc

Gross Alpha, total

Prep Method:

M900.0

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Gross Alpha, total	04/06/21 0:00		15	4.3	18	pCi/L	*	fdw

Radium 226, total

Prep Method:

M903.1

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 226, total	04/07/21 0:31		1.8	0.19	0.1	pCi/L		amk

Radium 228, total

Prep Method:

M904.0

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 228, total	04/07/21 13:29		3	1.3	3	pCi/L	*	cer

Uranium, Isotopic Total

Prep Method:

Eichrom ACW03

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Uranium 234, total	04/19/21 17:13		8.49	2.5	2.2	pCi/L	*	amk
Uranium 235, total	04/19/21 17:13		1.17	1.1	1.7	pCi/L	*	amk
Uranium 238, total	04/19/21 17:13		3.47	1.6	1.9	pCi/L	*	amk

Arizona license number: **AZ0102**

Report Header Explanations

<i>Batch</i>	A distinct set of samples analyzed at a specific time
<i>Error(+/-)</i>	Calculated sample specific uncertainty
<i>Found</i>	Value of the QC Type of interest
<i>Limit</i>	Upper limit for RPD, in %.
<i>LCL</i>	Lower Control Limit, in % (except for LCSS, mg/Kg)
<i>LLD</i>	Calculated sample specific Lower Limit of Detection
<i>PCN/SCN</i>	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
<i>PQL</i>	Practical Quantitation Limit
<i>QC</i>	True Value of the Control Sample or the amount added to the Spike
<i>Rec</i>	Amount of the true value or spike added recovered, in % (except for LCSS, mg/Kg)
<i>REER</i>	Relative Error Ratio, calculation used for Dup. QC taking into account the error factor.
<i>RPD</i>	Relative Percent Difference, calculation used for Duplicate QC Types
<i>UCL</i>	Upper Control Limit, in % (except for LCSS, mg/Kg)
<i>Sample</i>	Value of the Sample of interest

QC Sample Types

<i>DUP</i>	Sample Duplicate	<i>MS/MSD</i>	Matrix Spike/Matrix Spike Duplicate
<i>LCSS</i>	Laboratory Control Sample - Soil	<i>PBS</i>	Prep Blank - Soil
<i>LCSW</i>	Laboratory Control Sample - Water	<i>PBW</i>	Prep Blank - Water

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Matrix Spikes	Determines sample matrix interferences, if any.

ACZ Qualifiers (Qual)

H	Analysis exceeded method hold time.
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Method Prefix Reference

M	EPA methodology, including those under SDWA, CWA, and RCRA
SM	Standard Methods for the Examination of Water and Wastewater.
D	ASTM
RP	DOE
ESM	DOE/ESM

Comments

- (1) Solid matrices are reported on a dry weight basis.
- (2) Preparation method: "Method" indicates preparation defined in analytical method.
- (3) QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
- (4) An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.

For a complete list of ACZ's Extended Qualifiers, please click:

<https://acz.com/wp-content/uploads/2019/04/Ext-Qual-List.pdf>

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L64813

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Gross Alpha, total M900.0 Units: pCi/L

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG516510																
L64767-01DUP	DUP-RER	04/06/21			4.8	4.5	16	.91	3.5	41				0.68	2	
L64923-01DUP	DUP-RPD	04/06/21			1.4	1.3	1.3	-4	0.5	1.4				360	20	RG
L64767-01DUP	DUP-RPD	04/06/21			4.8	4.5	16	.91	3.5	41				136	20	RG
L64923-01DUP	DUP-RER	04/06/21			1.4	1.3	1.3	-4	0.5	1.4				1.29	2	
L64923-01MSA	MS	04/06/21	PCN62436	66.67	1.4	1.3	1.3	70	7.9	1.4	103	67	144			
WG516510LCSWA	LCSW	04/06/21	PCN62436	66.67				89	6.6	0.85	134	67	144			
WG516510PBW	PBW	04/06/21						.45	0.75	0.87				1.74		

Radium 226, total M903.1 Units: pCi/L

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG516588																
WG516588PBW	PBW	04/07/21						.03	0.05	0.05				0.1		
WG516588LCSW	LCSW	04/07/21	PCN62879	20				18	0.48	0.07	90	43	148			
L64634-01DUP	DUP-RPD	04/07/21			0.04	0.09	0.12	.21	0.14	0.13				136	20	RG
L64634-01DUP	DUP-RER	04/07/21			0.04	0.09	0.12	.21	0.14	0.13				1.02	2	
L64768-01MS	MS	04/07/21	PCN62879	20	15	0.54	0.2	34	0.77	0.28	95	43	148			
L64888-01DUP	DUP-RPD	04/07/21			1.7	0.17	0.06	1.9	0.19	0.08				11	20	

Radium 228, total M904.0 Units: pCi/L

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG516616																
L64758-01DUP	DUP-RPD	04/07/21			1.7	1.1	2.9	2	1.4	3.3				16	20	
WG516616LCSW	LCSW	04/07/21	PCN61541	9.06				11	1.4	1	121	47	123			
WG516616PBW	PBW	04/07/21						.13	0.6	0.63				1.26		
L64890-01DUP	DUP-RPD	04/07/21			0.35	0.71	1.8	.48	0.72	1.8				31	20	RG
L64891-01MS	MS	04/07/21	PCN61541	9.06	0.21	0.74	2.1	13	1.6	2.7	141	47	123			M1
L64890-01DUP	DUP-RER	04/07/21			0.35	0.71	1.8	.48	0.72	1.8				0.13	2	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L64813**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

U-232

Eichrom ACW03

Units: %

ACZ ID	Type	Analyzed	PCN/ISCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG517214																
WG517214PBW	PBW	04/19/21					30	74	130	30			60			
L64768-01DUP	DUP-RER	04/19/21			68	130	30	68	130	30				0	20	
L64768-01DUP	DUP-RPD	04/19/21			68	130	30	68	130	30					20	
L64768-01DUP	DUP-RPD	04/19/21			68	130	30	68	130	30					20	
L65058-02DUP	DUP-RER	04/20/21			74	130	30	71	130	30					20	
L65058-02DUP	DUP-RPD	04/20/21			74	130	30	71	130	30					20	
L65058-02DUP	DUP-RPD	04/20/21			74	130	30	71	130	30				4	20	
L64870-01MS	MS	04/20/21	RC201222-11		66	130	30	54	130	30						
WG517214LCSW	LCSW	04/20/21	RC201222-11			130	30	51	130	30						

U-234

Eichrom ACW03

Units: pCi/L

ACZ ID	Type	Analyzed	PCN/ISCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG517214																
WG517214PBW	PBW	04/19/21						.115	1.1	2.1			4.2			
L64768-01DUP	DUP-RPD	04/19/21			90.3	11	1.9	100	12	1.5				10	20	
L65058-02DUP	DUP-RPD	04/20/21			34.9	5.8	3.2	33.8	5.6	2.9				3	20	
L64870-01MS	MS	04/20/21	RC201222-11	98	1.26	1.5	2.4	93.3	13	2.8	94	77	122			
WG517214LCSW	LCSW	04/20/21	RC201222-11	98				77.7	11	2.8	79	77	122			



Laboratories, Inc.

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

**Radiochemistry QC
Summary**

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L64813**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

U-235

Eichrom ACW03

Units: pCi/L

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG517214																
WG517214PBW	PBW	04/19/21						-141	0.92	2			4			
L64768-01DUP	DUP-RPD	04/19/21			1.91	1.6	2.4	2.26	1.2	0.41				17	20	
L65058-02DUP	DUP-RER	04/20/21			0.158	0.82	1.7	1.25	1.4	2.3				0.67	2	
L65058-02DUP	DUP-RPD	04/20/21			0.158	0.82	1.7	1.25	1.4	2.3				155	20	RG
L64870-01MS	MS	04/20/21	RC201222-11	4.48	-0.0312	0.81	1.9	3.4	2.1	2.7	77	42	136			
WG517214LCSW	LCSW	04/20/21	RC201222-11	4.48				5.25	2.5	2.6	117	42	136			

U-238

Eichrom ACW03

Units: pCi/L

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG517214																
WG517214PBW	PBW	04/19/21						.379	0.82	1.5			3			
L64768-01DUP	DUP-RPD	04/19/21			38.1	5.9	2.3	40.5	6.1	1.3				6	20	
L65058-02DUP	DUP-RPD	04/20/21			18.3	4.2	3.9	15	3.5	3				20	20	
L64870-01MS	MS	04/20/21	RC201222-11	97.5	1.25	1.4	2.2	93.3	13	2	94	87	124			
WG517214LCSW	LCSW	04/20/21	RC201222-11	97.5				85.7	12	2.9	88	87	124			

Energy Fuels Resources (USA) Inc.ACZ Project ID: **L64813**

Radiochemistry

The following parameters are not offered for certification or are not covered by AZ certificate #AZ0102.

Uranium 234, total	Eichrom ACW03
Uranium 235, total	Eichrom ACW03
Uranium 238, total	Eichrom ACW03

The following parameters are not offered for certification or are not covered by NELAC certificate #ACZ.

Uranium 234, total	Eichrom ACW03
Uranium 235, total	Eichrom ACW03
Uranium 238, total	Eichrom ACW03

Wet Chemistry

The following parameters are not offered for certification or are not covered by AZ certificate #AZ0102.

Cyanide, Free	D6888-09/OIA-1677-09
---------------	----------------------

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L64813
 Date Received: 03/18/2021 11:25
 Received By:
 Date Printed: 3/19/2021

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody form or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?		X	
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody form complete and accurate?	X		
7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples?		X	

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits? ¹	X		
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?	X		

NA indicates Not Applicable

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp (°C)	Temp Criteria (°C)	Rad (µR/Hr)	Custody Seal Intact?
6333	1	<=6.0	15	Yes
6891	2.8	<=6.0	15	Yes

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L64813

Date Received: 03/18/2021 11:25

Received By:

Date Printed: 3/19/2021

¹ The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na₂S₂O₃ preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).



Laboratories, Inc.

L64813

CHAIN of CUSTODY

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Report to:

Name: Kathy Weinel
Company: Energy Fuels Resources
E-mail: kweinel@Energyfuels.com

Address: 225 Union Blvd Suite 600
Bakewood, Co 80228
Telephone:

Copy of Report to:

Name:
Company:

E-mail:
Telephone:

Invoice to:

Name:
Company:
E-mail:

Address:
Telephone:

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES [X] NO []

If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified

Are samples for SDWA Compliance Monitoring? Yes [] No [X]

If yes, please include state forms. Results will be reported to PQL for Colorado.

Sampler's Name: Matt Germansen Sampler's Site Information State AZ Zip code 86005 Time Zone AZ

*Sampler's Signature [Signature] I attest to the authenticity and validity of this sample. I understand that intentionally mislabeling the time/date/location or tampering with the sample in anyway, is considered fraud and punishable by State Law.

PROJECT INFORMATION

ANALYSES REQUESTED (attach list or use quote number)

Quote #: Pinyon-Plain-GW
PO#: BO 46882
Reporting state for compliance testing:
Check box if samples include NRC licensed material?

Table with columns: SAMPLE IDENTIFICATION, DATE:TIME, Matrix, # of Containers, and analysis results. Includes handwritten entries for various samples and a note 'All samples Field Filtered'.

Matrix SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS

Normal TAT all samples
see quote Pinyon Plain GW, BO 46882

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY: DATE:TIME RECEIVED BY: DATE:TIME

Matt Germansen 3/17/21: 1445 [Signature] 3/18/21 11:26



Account: EFRC/Energy Fuels Resources (USA)
Bottle Order: BO46882
 Internal Note: Client field filts

Bill to Account: Bill to ACZ
Ship Date Requested: 03/10/2021
Request Placed at: 03/09/2021 14:04
Service Requested: Ground

Sampling supplies

PACK	Qty	ACZ ID	Type	Description
<input type="checkbox"/>	1	COC	Chain of Custody	Chain of Custody, 1 for 10 samples.
<input type="checkbox"/>	2	SEAL	Custody Seal	Custody seals for cooler, two for each cooler.
<input type="checkbox"/>	1	RETURN	Return Address	Return Address label, one for each cooler.
<input type="checkbox"/>	70	LABELS	Sample Labels	ACZ supplied labels for sample containers
<input type="checkbox"/>		TRIP HG		

Quote number: PINYON-PLAIN-GW Pinyon Plain GW monitoring
Sample Quantity: 10 Client is responsible for necessary field filtering

PACK	Qty	Type	Size	Filter/Raw/Preserve	Instructions
<input type="checkbox"/>	1	GREEN PC	125 ML	Green pre-cleaned Filtered/Nitric	Metals (dissolved including ICPMS) - Filter sample with .45 micron filter. Do not overfill as there is Nitric Acid in the bottle.
<input type="checkbox"/>	1	PURPLE	250 ML	Raw/NaOH	Cyanide - Do not overfill as there is Sodium Hydroxide in the bottle.
<input type="checkbox"/>	1	RAW	500 ML	Raw	Wet Chemistry (analyses that do not require preservative or filtration) - Completely fill container.
<input type="checkbox"/>	1	RED CUBE	4 L	Raw/Nitric	Radiochemistry (total) - Do not overfill as there is Nitric Acid in the bottle.
<input type="checkbox"/>	1	RED RAD	1000 ML	Raw/Nitric	Radiochemistry (total) - Do not overfill as there is Nitric Acid in the bottle.
<input type="checkbox"/>	1	WHITE	250 ML	Filtered	Wet chemistry (dissolved) - Filter sample with .45 micron filter. Completely fill container.
<input type="checkbox"/>	1	YELLOW	250 ML	Raw/Sulfuric	For total wet chemistry analyses. Do not overfill as there is Sulfuric Acid in the bottle.

June 08, 2021

Report to:

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

Bill to:

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

Project ID:

ACZ Project ID: L65781

Kathy Weinel:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on May 12, 2021. This project has been assigned to ACZ's project number, L65781. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L65781. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after July 08, 2021. If the samples are determined to be hazardous, additional charges apply for disposal (typically \$11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.



Max Janicek has reviewed and approved this report.



Energy Fuels Resources (USA) Inc.
 Project ID:
 Sample ID: CYN-MON-01-2021-Q2

ACZ Sample ID: **L65781-01**
 Date Sampled: 05/10/21 16:15
 Date Received: 05/12/21
 Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Nitrogen, total Kjeldahl	M351.2 - Block Digestor								06/03/21 12:43	md

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, dissolved	M200.8 ICP-MS	1	0.00440			mg/L	0.0004	0.002	05/24/21 15:28	enb
Arsenic, dissolved	M200.8 ICP-MS	1	0.0765			mg/L	0.0002	0.001	05/24/21 15:28	enb
Barium, dissolved	M200.7 ICP	1	0.0233	B		mg/L	0.007	0.035	05/21/21 19:59	kja
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	05/24/21 15:28	enb
Cadmium, dissolved	M200.8 ICP-MS	1	<0.00005	U		mg/L	0.00005	0.00025	05/24/21 15:28	enb
Calcium, dissolved	M200.7 ICP	1	114			mg/L	0.1	0.5	05/21/21 19:59	kja
Chromium, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	05/21/21 19:59	kja
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	05/24/21 15:28	enb
Magnesium, dissolved	M200.7 ICP	1	59.4			mg/L	0.2	1	05/21/21 19:59	kja
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	05/19/21 13:02	mhl
Nickel, dissolved	M200.7 ICP	1	0.158			mg/L	0.008	0.04	05/21/21 19:59	kja
Potassium, dissolved	M200.7 ICP	1	1.80			mg/L	0.2	1	05/21/21 19:59	kja
Selenium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.00025	05/24/21 15:28	enb
Sodium, dissolved	M200.7 ICP	1	3.18			mg/L	0.2	1	05/21/21 19:59	kja
Thallium, dissolved	M200.8 ICP-MS	1	0.00173			mg/L	0.0001	0.0005	05/24/21 15:28	enb
Uranium, dissolved	M200.8 ICP-MS	1	0.0259			mg/L	0.0001	0.0005	05/24/21 15:28	enb

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	209			mg/L	2	20	05/14/21 0:00	emk
Carbonate as CaCO3		1	<2	U		mg/L	2	20	05/14/21 0:00	emk
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	05/14/21 0:00	emk
Total Alkalinity		1	209			mg/L	2	20	05/14/21 0:00	emk
Conductivity @25C	SM2510B	1	913			umhos/cm	1	10	05/14/21 5:38	emk
Cyanide, Free	D6888-09/OIA-1677-09	1	<0.003	U	*	mg/L	0.003	0.01	05/13/21 13:56	md
Fluoride	M300.0 - Ion Chromatography	5	<0.25	U	*	mg/L	0.25	1.25	05/25/21 19:22	krh
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2		<0.02	UH	*	mg/L	0.02	0.1	06/08/21 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.02	UH	*	mg/L	0.02	0.1	05/20/21 0:54	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.01	UH	*	mg/L	0.01	0.05	05/20/21 0:54	pjb
Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digestor	1	<0.2	U	*	mg/L	0.2	0.5	06/05/21 19:59	pjb
pH (lab)	SM4500H+ B									
pH		1	8.2	H		units	0.1	0.1	05/14/21 0:00	emk
pH measured at		1	20.4			C	0.1	0.1	05/14/21 0:00	emk
Residue, Filterable (TDS) @180C	SM2540C	1	654			mg/L	20	40	05/13/21 19:59	jck
Sulfate	M300.0 - Ion Chromatography	5	313			mg/L	2	10	05/25/21 19:22	krh
Total Nitrogen, calc	Calculation: NO3NO2+TKN		<0.1	U		mg/L	0.1	0.5	06/08/21 0:00	calc

Energy Fuels Resources (USA) Inc.
Project ID:
Sample ID: CYN-MON-01-2021-Q2

ACZ Sample ID: **L65781-01**
Date Sampled: 05/10/21 16:15
Date Received: 05/12/21
Sample Matrix: *Groundwater*

Arizona license number: AZ0102

Energy Fuels Resources (USA) Inc.

Project ID:

Sample ID: CYN-MON-02-2021-Q2

ACZ Sample ID: **L65781-02**

Date Sampled: 05/10/21 11:59

Date Received: 05/12/21

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Nitrogen, total Kjeldahl	M351.2 - Block Digestor								06/03/21 13:12	md

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, dissolved	M200.8 ICP-MS	1	0.00054	B		mg/L	0.0004	0.002	05/24/21 15:30	enb
Arsenic, dissolved	M200.8 ICP-MS	1	0.00639			mg/L	0.0002	0.001	05/24/21 15:30	enb
Barium, dissolved	M200.7 ICP	1	0.0531			mg/L	0.007	0.035	05/21/21 20:02	kja
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	05/24/21 15:30	enb
Cadmium, dissolved	M200.8 ICP-MS	1	<0.00005	U		mg/L	0.00005	0.00025	05/24/21 15:30	enb
Calcium, dissolved	M200.7 ICP	1	76.9			mg/L	0.1	0.5	05/21/21 20:02	kja
Chromium, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	05/21/21 20:02	kja
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	05/24/21 15:30	enb
Magnesium, dissolved	M200.7 ICP	1	38.0			mg/L	0.2	1	05/21/21 20:02	kja
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	05/19/21 13:03	mhl
Nickel, dissolved	M200.7 ICP	1	0.0256	B		mg/L	0.008	0.04	05/21/21 20:02	kja
Potassium, dissolved	M200.7 ICP	1	3.67			mg/L	0.2	1	05/21/21 20:02	kja
Selenium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.00025	05/24/21 15:30	enb
Sodium, dissolved	M200.7 ICP	1	2.74			mg/L	0.2	1	05/21/21 20:02	kja
Thallium, dissolved	M200.8 ICP-MS	1	0.00111			mg/L	0.0001	0.0005	05/24/21 15:30	enb
Uranium, dissolved	M200.8 ICP-MS	1	0.00765			mg/L	0.0001	0.0005	05/24/21 15:30	enb

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	228			mg/L	2	20	05/14/21 0:00	emk
Carbonate as CaCO3		1	<2	U		mg/L	2	20	05/14/21 0:00	emk
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	05/14/21 0:00	emk
Total Alkalinity		1	228			mg/L	2	20	05/14/21 0:00	emk
Conductivity @25C	SM2510B	1	637			umhos/cm	1	10	05/14/21 5:48	emk
Cyanide, Free	D6888-09/OIA-1677-09	1	<0.003	U	*	mg/L	0.003	0.01	05/13/21 13:58	md
Fluoride	M300.0 - Ion Chromatography	2	<0.1	U	*	mg/L	0.1	0.5	05/27/21 16:44	krh
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2		<0.02	UH	*	mg/L	0.02	0.1	06/08/21 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.02	UH	*	mg/L	0.02	0.1	05/20/21 1:00	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.01	UH	*	mg/L	0.01	0.05	05/20/21 1:00	pjb
Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digestor	1	<0.2	U	*	mg/L	0.2	0.5	06/05/21 20:02	pjb
pH (lab)	SM4500H+ B									
pH		1	8.3	H		units	0.1	0.1	05/14/21 0:00	emk
pH measured at		1	20.1			C	0.1	0.1	05/14/21 0:00	emk
Residue, Filterable (TDS) @180C	SM2540C	1	400			mg/L	20	40	05/13/21 20:02	jck
Sulfate	M300.0 - Ion Chromatography	2	115			mg/L	0.8	4	05/27/21 16:44	krh
Total Nitrogen, calc	Calculation: NO3NO2+TKN		<0.1	U		mg/L	0.1	0.5	06/08/21 0:00	calc

Energy Fuels Resources (USA) Inc.
Project ID:
Sample ID: CYN-MON-02-2021-Q2

ACZ Sample ID: **L65781-02**
Date Sampled: 05/10/21 11:59
Date Received: 05/12/21
Sample Matrix: Groundwater

Arizona license number: AZ0102

Energy Fuels Resources (USA) Inc.
 Project ID:
 Sample ID: CYN-MON-02-2021-Q2-DUP

ACZ Sample ID: **L65781-03**
 Date Sampled: 05/10/21 11:59
 Date Received: 05/12/21
 Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Nitrogen, total Kjeldahl	M351.2 - Block Digestor								06/03/21 13:42	md

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, dissolved	M200.8 ICP-MS	1	0.00053	B		mg/L	0.0004	0.002	05/24/21 15:31	enb
Arsenic, dissolved	M200.8 ICP-MS	1	0.00633			mg/L	0.0002	0.001	05/24/21 15:31	enb
Barium, dissolved	M200.7 ICP	1	0.0541			mg/L	0.007	0.035	05/21/21 20:12	kja
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	05/24/21 15:31	enb
Cadmium, dissolved	M200.8 ICP-MS	1	<0.00005	U		mg/L	0.00005	0.00025	05/24/21 15:31	enb
Calcium, dissolved	M200.7 ICP	1	78.2			mg/L	0.1	0.5	05/21/21 20:12	kja
Chromium, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	05/21/21 20:12	kja
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	05/24/21 15:31	enb
Magnesium, dissolved	M200.7 ICP	1	38.7			mg/L	0.2	1	05/21/21 20:12	kja
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	05/19/21 13:04	mhl
Nickel, dissolved	M200.7 ICP	1	0.0231	B		mg/L	0.008	0.04	05/21/21 20:12	kja
Potassium, dissolved	M200.7 ICP	1	3.79			mg/L	0.2	1	05/21/21 20:12	kja
Selenium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.00025	05/24/21 15:31	enb
Sodium, dissolved	M200.7 ICP	1	2.81			mg/L	0.2	1	05/21/21 20:12	kja
Thallium, dissolved	M200.8 ICP-MS	1	0.00109			mg/L	0.0001	0.0005	05/24/21 15:31	enb
Uranium, dissolved	M200.8 ICP-MS	1	0.00764			mg/L	0.0001	0.0005	05/24/21 15:31	enb

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	246			mg/L	2	20	05/14/21 0:00	emk
Carbonate as CaCO3		1	<2	U		mg/L	2	20	05/14/21 0:00	emk
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	05/14/21 0:00	emk
Total Alkalinity		1	246			mg/L	2	20	05/14/21 0:00	emk
Conductivity @25C	SM2510B	1	641			umhos/cm	1	10	05/14/21 5:59	emk
Cyanide, Free	D6888-09/OIA-1677-09	1	<0.003	U	*	mg/L	0.003	0.01	05/19/21 15:22	md
Fluoride	M300.0 - Ion Chromatography	2	<0.1	U	*	mg/L	0.1	0.5	05/27/21 17:02	krh
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2		<0.02	UH	*	mg/L	0.02	0.1	06/08/21 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.02	UH	*	mg/L	0.02	0.1	05/20/21 1:01	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.01	UH	*	mg/L	0.01	0.05	05/20/21 1:01	pjb
Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digestor	1	<0.2	U	*	mg/L	0.2	0.5	06/05/21 20:04	pjb
pH (lab)	SM4500H+ B									
pH		1	8.3	H		units	0.1	0.1	05/14/21 0:00	emk
pH measured at		1	20.2			C	0.1	0.1	05/14/21 0:00	emk
Residue, Filterable (TDS) @180C	SM2540C	1	400			mg/L	20	40	05/13/21 20:04	jck
Sulfate	M300.0 - Ion Chromatography	2	115			mg/L	0.8	4	05/27/21 17:02	krh
Total Nitrogen, calc	Calculation: NO3NO2+TKN		<0.1	U		mg/L	0.1	0.5	06/08/21 0:00	calc

Energy Fuels Resources (USA) Inc.

Project ID:

Sample ID: CYN-MON-02-2021-Q2-DUP

ACZ Sample ID: **L65781-03**

Date Sampled: 05/10/21 11:59

Date Received: 05/12/21

Sample Matrix: Groundwater

Arizona license number: AZ0102

Energy Fuels Resources (USA) Inc.
 Project ID:
 Sample ID: CYN-MON-03-2021-Q2

ACZ Sample ID: **L65781-04**
 Date Sampled: 05/11/21 10:52
 Date Received: 05/12/21
 Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Nitrogen, total Kjeldahl	M351.2 - Block Digester								06/03/21 13:57	md

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	05/24/21 15:33	enb
Arsenic, dissolved	M200.8 ICP-MS	1	0.0320			mg/L	0.0002	0.001	05/24/21 15:33	enb
Barium, dissolved	M200.7 ICP	1	0.0133	B		mg/L	0.007	0.035	05/21/21 20:15	kja
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	05/24/21 15:33	enb
Cadmium, dissolved	M200.8 ICP-MS	1	<0.00005	U		mg/L	0.00005	0.00025	05/24/21 15:33	enb
Calcium, dissolved	M200.7 ICP	1	183			mg/L	0.1	0.5	05/21/21 20:15	kja
Chromium, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	05/21/21 20:15	kja
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	05/24/21 15:33	enb
Magnesium, dissolved	M200.7 ICP	1	88.3			mg/L	0.2	1	05/21/21 20:15	kja
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	05/19/21 13:09	mhl
Nickel, dissolved	M200.7 ICP	1	0.300			mg/L	0.008	0.04	05/21/21 20:15	kja
Potassium, dissolved	M200.7 ICP	1	2.37			mg/L	0.2	1	05/21/21 20:15	kja
Selenium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.00025	05/24/21 15:33	enb
Sodium, dissolved	M200.7 ICP	1	3.79			mg/L	0.2	1	05/21/21 20:15	kja
Thallium, dissolved	M200.8 ICP-MS	1	0.00074			mg/L	0.0001	0.0005	05/24/21 15:33	enb
Uranium, dissolved	M200.8 ICP-MS	1	0.00682			mg/L	0.0001	0.0005	05/24/21 15:33	enb

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	164			mg/L	2	20	05/14/21 0:00	emk
Carbonate as CaCO3		1	<2	U		mg/L	2	20	05/14/21 0:00	emk
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	05/14/21 0:00	emk
Total Alkalinity		1	164			mg/L	2	20	05/14/21 0:00	emk
Conductivity @25C	SM2510B	1	1330			umhos/cm	1	10	05/14/21 6:08	emk
Cyanide, Free	D6888-09/OIA-1677-09	1	<0.003	U	*	mg/L	0.003	0.01	05/19/21 15:29	md
Fluoride	M300.0 - Ion Chromatography	10	<0.5	U	*	mg/L	0.5	2.5	05/25/21 20:16	krh
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2		<0.02	U		mg/L	0.02	0.1	06/08/21 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.02	U		mg/L	0.02	0.1	05/13/21 1:01	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.018	B	*	mg/L	0.01	0.05	05/13/21 0:11	pjb
Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	1	<0.2	U	*	mg/L	0.2	0.5	06/05/21 20:05	pjb
pH (lab)	SM4500H+ B									
pH		1	8.0	H		units	0.1	0.1	05/14/21 0:00	emk
pH measured at		1	19.9			C	0.1	0.1	05/14/21 0:00	emk
Residue, Filterable (TDS) @180C	SM2540C	1	1060			mg/L	20	40	05/13/21 20:07	jck
Sulfate	M300.0 - Ion Chromatography	10	653			mg/L	4	20	05/25/21 20:16	krh
Total Nitrogen, calc	Calculation: NO3NO2+TKN		<0.1	U		mg/L	0.1	0.5	06/08/21 0:00	calc

Energy Fuels Resources (USA) Inc.
Project ID:
Sample ID: CYN-MON-03-2021-Q2

ACZ Sample ID: **L65781-04**
Date Sampled: 05/11/21 10:52
Date Received: 05/12/21
Sample Matrix: Groundwater

Arizona license number: AZ0102

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L65781**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Alkalinity as CaCO3

SM2320B - Titration

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519212													
WG519212PBW1	PBW	05/13/21 16:32				U	mg/L		-20	20			
WG519212LCSW3	LCSW	05/13/21 16:51	WC210506-1	820.0001		814.6	mg/L	99	90	110			
WG519212LCSW6	LCSW	05/13/21 20:22	WC210506-1	820.0001		796.8	mg/L	97	90	110			
WG519212PBW2	PBW	05/13/21 20:29				U	mg/L		-20	20			
WG519212LCSW9	LCSW	05/13/21 23:48	WC210506-1	820.0001		815.7	mg/L	99	90	110			
WG519212PBW3	PBW	05/13/21 23:55				U	mg/L		-20	20			
WG519212LCSW12	LCSW	05/14/21 3:06	WC210506-1	820.0001		814.9	mg/L	99	90	110			
WG519212PBW4	PBW	05/14/21 3:13				U	mg/L		-20	20			
L65781-04DUP	DUP	05/14/21 6:17			164	163.4	mg/L				0	20	
WG519212LCSW15	LCSW	05/14/21 6:35	WC210506-1	820.0001		799.8	mg/L	98	90	110			

Antimony, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519772													
WG519772ICV	ICV	05/24/21 15:01	MS210503-1	.0201		.01972	mg/L	98	90	110			
WG519772ICB	ICB	05/24/21 15:02				U	mg/L		-0.00088	0.00088			
WG519772LFB	LFB	05/24/21 15:04	MS210420-3	.01		.00971	mg/L	97	85	115			
L65720-01AS	AS	05/24/21 15:15	MS210420-3	.01	U	.00966	mg/L	97	70	130			
L65720-01ASD	ASD	05/24/21 15:17	MS210420-3	.01	U	.00983	mg/L	98	70	130	2	20	
L65858-03AS	AS	05/24/21 15:44	MS210420-3	.05	U	.04419	mg/L	88	70	130			
L65858-03ASD	ASD	05/24/21 15:46	MS210420-3	.05	U	.05388	mg/L	108	70	130	20	20	

Arsenic, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519772													
WG519772ICV	ICV	05/24/21 15:01	MS210503-1	.05		.05003	mg/L	100	90	110			
WG519772ICB	ICB	05/24/21 15:02				U	mg/L		-0.00044	0.00044			
WG519772LFB	LFB	05/24/21 15:04	MS210420-3	.05005		.04842	mg/L	97	85	115			
L65720-01AS	AS	05/24/21 15:15	MS210420-3	.05005	.00651	.0577	mg/L	102	70	130			
L65720-01ASD	ASD	05/24/21 15:17	MS210420-3	.05005	.00651	.05767	mg/L	102	70	130	0	20	
L65858-03AS	AS	05/24/21 15:44	MS210420-3	.25025	U	.24744	mg/L	99	70	130			
L65858-03ASD	ASD	05/24/21 15:46	MS210420-3	.25025	U	.24239	mg/L	97	70	130	2	20	

Barium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519679													
WG519679ICV	ICV	05/21/21 19:29	II210514-2	2		1.9552	mg/L	98	95	105			
WG519679ICB	ICB	05/21/21 19:35				U	mg/L		-0.021	0.021			
WG519679LFB	LFB	05/21/21 19:47	II210507-4	.5		.4835	mg/L	97	85	115			
L65781-02AS	AS	05/21/21 20:06	II210507-4	.5	.0531	.542	mg/L	98	85	115			
L65781-02ASD	ASD	05/21/21 20:09	II210507-4	.5	.0531	.5437	mg/L	98	85	115	0	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L65781**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Beryllium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519772													
WG519772ICV	ICV	05/24/21 15:01	MS210503-1	.05		.049097	mg/L	98	90	110			
WG519772ICB	ICB	05/24/21 15:02				.000106	mg/L		-0.000176	0.000176			
WG519772LFB	LFB	05/24/21 15:04	MS210420-3	.05005		.049728	mg/L	99	85	115			
L65720-01AS	AS	05/24/21 15:15	MS210420-3	.05005	U	.047717	mg/L	95	70	130			
L65720-01ASD	ASD	05/24/21 15:17	MS210420-3	.05005	U	.048697	mg/L	97	70	130	2	20	
L65858-03AS	AS	05/24/21 15:44	MS210420-3	.25025	U	.256022	mg/L	102	70	130			
L65858-03ASD	ASD	05/24/21 15:46	MS210420-3	.25025	U	.247277	mg/L	99	70	130	3	20	

Cadmium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519772													
WG519772ICV	ICV	05/24/21 15:01	MS210503-1	.05		.05084	mg/L	102	90	110			
WG519772ICB	ICB	05/24/21 15:02				U	mg/L		-0.00011	0.00011			
WG519772LFB	LFB	05/24/21 15:04	MS210420-3	.05005		.047926	mg/L	96	85	115			
L65720-01AS	AS	05/24/21 15:15	MS210420-3	.05005	U	.048569	mg/L	97	70	130			
L65720-01ASD	ASD	05/24/21 15:17	MS210420-3	.05005	U	.049237	mg/L	98	70	130	1	20	
L65858-03AS	AS	05/24/21 15:44	MS210420-3	.25025	U	.241707	mg/L	97	70	130			
L65858-03ASD	ASD	05/24/21 15:46	MS210420-3	.25025	U	.237199	mg/L	95	70	130	2	20	

Calcium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519679													
WG519679ICV	ICV	05/21/21 19:29	II210514-2	100		99.11	mg/L	99	95	105			
WG519679ICB	ICB	05/21/21 19:35				U	mg/L		-0.3	0.3			
WG519679LFB	LFB	05/21/21 19:47	II210507-4	67.98753		59.82	mg/L	88	85	115			
L65781-02AS	AS	05/21/21 20:06	II210507-4	67.98753	76.9	142.6	mg/L	97	85	115			
L65781-02ASD	ASD	05/21/21 20:09	II210507-4	67.98753	76.9	141.9	mg/L	96	85	115	0	20	

Chromium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519679													
WG519679ICV	ICV	05/21/21 19:29	II210514-2	2		1.964	mg/L	98	95	105			
WG519679ICB	ICB	05/21/21 19:35				U	mg/L		-0.06	0.06			
WG519679LFB	LFB	05/21/21 19:47	II210507-4	.502		.487	mg/L	97	85	115			
L65781-02AS	AS	05/21/21 20:06	II210507-4	.502	U	.495	mg/L	99	85	115			
L65781-02ASD	ASD	05/21/21 20:09	II210507-4	.502	U	.497	mg/L	99	85	115	0	20	

Conductivity @25C SM2510B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519212													
WG519212LCSW2	LCSW	05/13/21 16:38	PCN63133	1410		1438	umhos/cm	102	90	110			
WG519212LCSW5	LCSW	05/13/21 20:11	PCN63133	1410		1431	umhos/cm	101	90	110			
WG519212LCSW8	LCSW	05/13/21 23:35	PCN63133	1410		1420	umhos/cm	101	90	110			
WG519212LCSW11	LCSW	05/14/21 2:53	PCN63133	1410		1416	umhos/cm	100	90	110			
L65781-04DUP	DUP	05/14/21 6:17			1330	1317	umhos/cm				1	20	
WG519212LCSW14	LCSW	05/14/21 6:24	PCN63133	1410		1406	umhos/cm	100	90	110			

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L65781**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Cyanide, Free

D6888-09/OIA-1677-09

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519156													
WG519156ICV	ICV	05/13/21 11:07	WI210510-7	.3		.2933	mg/L	98	90	110			
WG519156ICB	ICB	05/13/21 11:09				U	mg/L		-0.003	0.003			
WG519156LFB	LFB	05/13/21 11:13	WI210510-5	.1		.1064	mg/L	106	90	110			
L65781-02AS	AS	05/13/21 14:00	WI210510-5	.1	U	.1065	mg/L	107	90	110			
L65781-02ASD	ASD	05/13/21 14:02	WI210510-5	.1	U	.1035	mg/L	104	90	110	3	20	
WG519480													
WG519480ICV	ICV	05/19/21 15:12	WI210510-7	.3		.3014	mg/L	100	90	110			
WG519480ICB	ICB	05/19/21 15:14				U	mg/L		-0.003	0.003			
WG519480LFB	LFB	05/19/21 15:18	WI210510-5	.1		.0991	mg/L	99	90	110			
L65781-03AS	AS	05/19/21 15:24	WI210510-5	.1	U	.1056	mg/L	106	90	110			
L65781-03ASD	ASD	05/19/21 15:27	WI210510-5	.1	U	.1089	mg/L	109	90	110	3	20	

Fluoride

M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519666													
WG519666ICV	ICV	05/20/21 17:50	WI210520-6	4.004		4.173	mg/L	104	90	110			
WG519666ICB	ICB	05/20/21 18:08				U	mg/L		-0.05	0.05			
WG519836													
WG519836LFB	LFB	05/25/21 17:52	WI210329-1	1.5		1.631	mg/L	109	90	110			
L65724-01DUP	DUP	05/27/21 15:50			5.82	5.81	mg/L				0	20	
L65750-01AS	AS	05/27/21 16:26	WI210329-1	7.5	.323	8.655	mg/L	111	90	110			M1

Lead, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519772													
WG519772ICV	ICV	05/24/21 15:01	MS210503-1	.05		.05046	mg/L	101	90	110			
WG519772ICB	ICB	05/24/21 15:02				U	mg/L		-0.00022	0.00022			
WG519772LFB	LFB	05/24/21 15:04	MS210420-3	.05005		.0484	mg/L	97	85	115			
L65720-01AS	AS	05/24/21 15:15	MS210420-3	.05005	U	.04978	mg/L	99	70	130			
L65720-01ASD	ASD	05/24/21 15:17	MS210420-3	.05005	U	.05059	mg/L	101	70	130	2	20	
L65858-03AS	AS	05/24/21 15:44	MS210420-3	.25025	U	.25112	mg/L	100	70	130			
L65858-03ASD	ASD	05/24/21 15:46	MS210420-3	.25025	U	.2457	mg/L	98	70	130	2	20	

Magnesium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519679													
WG519679ICV	ICV	05/21/21 19:29	II210514-2	100		97.3	mg/L	97	95	105			
WG519679ICB	ICB	05/21/21 19:35				U	mg/L		-0.6	0.6			
WG519679LFB	LFB	05/21/21 19:47	II210507-4	50.00302		42.45	mg/L	85	85	115			
L65781-02AS	AS	05/21/21 20:06	II210507-4	50.00302	38	85.94	mg/L	96	85	115			
L65781-02ASD	ASD	05/21/21 20:09	II210507-4	50.00302	38	85.47	mg/L	95	85	115	1	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L65781**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Mercury, dissolved M245.1 CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519479													
WG519479ICV	ICV	05/19/21 12:16	HG210329-2	.00501		.005	mg/L	100	95	105			
WG519479ICB	ICB	05/19/21 12:17				U	mg/L		-0.0002	0.0002			
WG519482													
WG519482LRB	LRB	05/19/21 12:58				U	mg/L		-0.00044	0.00044			
WG519482LFB	LFB	05/19/21 12:59	HG210513-4	.002002		.00187	mg/L	93	85	115			
L65781-03LFM	LFM	05/19/21 13:05	HG210513-4	.002002	U	.00194	mg/L	97	85	115			
L65781-03LFMD	LFMD	05/19/21 13:06	HG210513-4	.002002	U	.00199	mg/L	99	85	115	3	20	

Nickel, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519679													
WG519679ICV	ICV	05/21/21 19:29	I1210514-2	2		1.946	mg/L	97	95	105			
WG519679ICB	ICB	05/21/21 19:35				U	mg/L		-0.024	0.024			
WG519679LFB	LFB	05/21/21 19:47	I1210507-4	.5		.4839	mg/L	97	85	115			
L65781-02AS	AS	05/21/21 20:06	I1210507-4	.5	.0256	.5048	mg/L	96	85	115			
L65781-02ASD	ASD	05/21/21 20:09	I1210507-4	.5	.0256	.5078	mg/L	96	85	115	1	20	

Nitrate/Nitrite as N, dissolved M353.2 - Automated Cadmium Reduction

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519131													
WG519131ICV	ICV	05/12/21 23:44	WI210302-17	2.416		2.387	mg/L	99	90	110			
WG519131ICB	ICB	05/12/21 23:46				U	mg/L		-0.02	0.02			
WG519131LFB	LFB	05/12/21 23:49	WI210331-13	2		2.036	mg/L	102	90	110			
L65766-02DUP	DUP	05/12/21 23:54			.326	.31	mg/L				5	20	
L65766-01AS	AS	05/13/21 0:31	WI210331-13	6	3.54	9.618	mg/L	101	90	110			
WG519552													
WG519552ICV	ICV	05/20/21 0:40	WI210302-17	2.416		2.367	mg/L	98	90	110			
WG519552ICB	ICB	05/20/21 0:42				U	mg/L		-0.02	0.02			
WG519552LFB	LFB	05/20/21 0:45	WI210331-13	2		2.032	mg/L	102	90	110			
L65520-03AS	AS	05/20/21 0:48	WI210512-3	2	U	1.998	mg/L	100	90	110			
L65521-03DUP	DUP	05/20/21 0:50			U	U	mg/L				0	20	RA

Nitrite as N, dissolved M353.2 - Automated Cadmium Reduction

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519131													
WG519131ICV	ICV	05/12/21 23:44	WI210302-17	.609		.602	mg/L	99	90	110			
WG519131ICB	ICB	05/12/21 23:46				U	mg/L		-0.01	0.01			
WG519131LFB	LFB	05/12/21 23:49	WI210331-13	1		.978	mg/L	98	90	110			
L65766-01AS	AS	05/12/21 23:52	WI210331-13	1	.044	1.051	mg/L	101	90	110			
L65766-02DUP	DUP	05/12/21 23:54			U	U	mg/L				0	20	RA
WG519552													
WG519552ICV	ICV	05/20/21 0:40	WI210302-17	.609		.619	mg/L	102	90	110			
WG519552ICB	ICB	05/20/21 0:42				U	mg/L		-0.01	0.01			
WG519552LFB	LFB	05/20/21 0:45	WI210331-13	1		.995	mg/L	100	90	110			
L65520-03AS	AS	05/20/21 0:48	WI210512-3	1	U	.984	mg/L	98	90	110			
L65521-03DUP	DUP	05/20/21 0:50			U	U	mg/L				0	20	RA

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L65781**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Nitrogen, total Kjeldahl M351.2 - TKN by Block Digester

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520443													
WG520443ICV	ICV	06/05/21 19:44	WI210513-2	4		4.19	mg/L	105	90	110			
WG520443ICB	ICB	06/05/21 19:45				U	mg/L		-0.2	0.2			
WG520320LRB	LRB	06/05/21 19:46				U	mg/L		-0.2	0.2			
WG520320LFB	LFB	06/05/21 19:47	WI210413-6	2.5		2.57	mg/L	103	90	110			
L65781-01LFM	LFM	06/05/21 20:01	WI210413-6	2.5	U	2.37	mg/L	95	90	110			
L65781-02DUP	DUP	06/05/21 20:03			U	U	mg/L				0	20	RA
L65874-02DUP	DUP	06/05/21 20:15			.31	.33	mg/L				6	20	RA
L65874-03LFM	LFM	06/05/21 20:17	WI210413-6	2.5	U	2.61	mg/L	104	90	110			

pH (lab) SM4500H+ B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519212													
WG519212LCSW1	LCSW	05/13/21 16:37	PCN61687	6		6	units	100	5.9	6.1			
WG519212LCSW4	LCSW	05/13/21 20:10	PCN61687	6		6.1	units	102	5.9	6.1			
WG519212LCSW7	LCSW	05/13/21 23:34	PCN61687	6		6.1	units	102	5.9	6.1			
WG519212LCSW10	LCSW	05/14/21 2:51	PCN61687	6		6.1	units	102	5.9	6.1			
L65781-04DUP	DUP	05/14/21 6:17			8	8	units				0	20	
WG519212LCSW13	LCSW	05/14/21 6:22	PCN61687	6		6.1	units	102	5.9	6.1			

Potassium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519679													
WG519679ICV	ICV	05/21/21 19:29	II210514-2	20		19.6	mg/L	98	95	105			
WG519679ICB	ICB	05/21/21 19:35				U	mg/L		-0.6	0.6			
WG519679LFB	LFB	05/21/21 19:47	II210507-4	100.0157		85.37	mg/L	85	85	115			
L65781-02AS	AS	05/21/21 20:06	II210507-4	100.0157	3.67	102.8	mg/L	99	85	115			
L65781-02ASD	ASD	05/21/21 20:09	II210507-4	100.0157	3.67	102.2	mg/L	99	85	115	1	20	

Residue, Filterable (TDS) @180C SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519236													
WG519236PBW	PBW	05/13/21 19:10				U	mg/L		-20	20			
WG519236LCSW	LCSW	05/13/21 19:12	PCN62897	1000		998	mg/L	100	80	120			
L65781-04DUP	DUP	05/13/21 20:10			1060	1062	mg/L				0	10	

Selenium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519772													
WG519772ICV	ICV	05/24/21 15:01	MS210503-1	.05		.05037	mg/L	101	90	110			
WG519772ICB	ICB	05/24/21 15:02				.00016	mg/L		-0.00022	0.00022			
WG519772LFB	LFB	05/24/21 15:04	MS210420-3	.05		.04873	mg/L	97	85	115			
L65720-01AS	AS	05/24/21 15:15	MS210420-3	.05	.00101	.0533	mg/L	105	70	130			
L65720-01ASD	ASD	05/24/21 15:17	MS210420-3	.05	.00101	.05396	mg/L	106	70	130	1	20	
L65858-03AS	AS	05/24/21 15:44	MS210420-3	.25	U	.25667	mg/L	103	70	130			
L65858-03ASD	ASD	05/24/21 15:46	MS210420-3	.25	U	.24928	mg/L	100	70	130	3	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L65781**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Sodium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519679													
WG519679ICV	ICV	05/21/21 19:29	II210514-2	100		97.15	mg/L	97	95	105			
WG519679ICB	ICB	05/21/21 19:35				U	mg/L		-0.6	0.6			
WG519679LFB	LFB	05/21/21 19:47	II210507-4	100.0605		84.77	mg/L	85	85	115			
L65781-02AS	AS	05/21/21 20:06	II210507-4	100.0605	2.74	100.8	mg/L	98	85	115			
L65781-02ASD	ASD	05/21/21 20:09	II210507-4	100.0605	2.74	99.98	mg/L	97	85	115	1	20	

Sulfate M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519666													
WG519666ICV	ICV	05/20/21 17:50	WI210520-6	51.15		51.12	mg/L	100	90	110			
WG519666ICB	ICB	05/20/21 18:08				U	mg/L		-0.4	0.4			
WG519836													
WG519836LFB	LFB	05/25/21 17:52	WI210329-1	29.97		32.05	mg/L	107	90	110			
L65724-01DUP	DUP	05/27/21 15:50			428	426.92	mg/L				0	20	
L65750-01AS	AS	05/27/21 16:26	WI210329-1	149.85	28.5	190.57	mg/L	108	90	110			

Thallium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519772													
WG519772ICV	ICV	05/24/21 15:01	MS210503-1	.05		.05153	mg/L	103	90	110			
WG519772ICB	ICB	05/24/21 15:02				U	mg/L		-0.00022	0.00022			
WG519772LFB	LFB	05/24/21 15:04	MS210420-3	.05		.04824	mg/L	96	85	115			
L65720-01AS	AS	05/24/21 15:15	MS210420-3	.05	U	.04989	mg/L	100	70	130			
L65720-01ASD	ASD	05/24/21 15:17	MS210420-3	.05	U	.05076	mg/L	102	70	130	2	20	
L65858-03AS	AS	05/24/21 15:44	MS210420-3	.25	U	.25056	mg/L	100	70	130			
L65858-03ASD	ASD	05/24/21 15:46	MS210420-3	.25	U	.24614	mg/L	98	70	130	2	20	

Uranium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519772													
WG519772ICV	ICV	05/24/21 15:01	MS210503-1	.05		.05084	mg/L	102	90	110			
WG519772ICB	ICB	05/24/21 15:02				U	mg/L		-0.00022	0.00022			
WG519772LFB	LFB	05/24/21 15:04	MS210420-3	.05		.04826	mg/L	97	85	115			
L65720-01AS	AS	05/24/21 15:15	MS210420-3	.05	.0105	.06207	mg/L	103	70	130			
L65720-01ASD	ASD	05/24/21 15:17	MS210420-3	.05	.0105	.06295	mg/L	105	70	130	1	20	
L65858-03AS	AS	05/24/21 15:44	MS210420-3	.25	.00445	.26549	mg/L	104	70	130			
L65858-03ASD	ASD	05/24/21 15:46	MS210420-3	.25	.00445	.25927	mg/L	102	70	130	2	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L65781**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L65781-01	WG519836	Fluoride	M300.0 - Ion Chromatography	DC	Sample required dilution. Non-target analyte exceeded calibration range.
			M300.0 - Ion Chromatography	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG519552	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	HE	Analysis performed past holding time. Method holding time is less than or equal to 7 days and sample was received with less than half of the holding time remaining (refer to item C5 of ACZ's Terms & Conditions).
				RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			M353.2 - Automated Cadmium Reduction	HE	Analysis performed past holding time. Method holding time is less than or equal to 7 days and sample was received with less than half of the holding time remaining (refer to item C5 of ACZ's Terms & Conditions).
				RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			M353.2 - Automated Cadmium Reduction	HE	Analysis performed past holding time. Method holding time is less than or equal to 7 days and sample was received with less than half of the holding time remaining (refer to item C5 of ACZ's Terms & Conditions).
				RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
WG520443	Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).	
L65781-02	WG519836	Fluoride	M300.0 - Ion Chromatography	DC	Sample required dilution. Non-target analyte exceeded calibration range.
			M300.0 - Ion Chromatography	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG519552	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	HE	Analysis performed past holding time. Method holding time is less than or equal to 7 days and sample was received with less than half of the holding time remaining (refer to item C5 of ACZ's Terms & Conditions).
				RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			M353.2 - Automated Cadmium Reduction	HE	Analysis performed past holding time. Method holding time is less than or equal to 7 days and sample was received with less than half of the holding time remaining (refer to item C5 of ACZ's Terms & Conditions).
				RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			M353.2 - Automated Cadmium Reduction	HE	Analysis performed past holding time. Method holding time is less than or equal to 7 days and sample was received with less than half of the holding time remaining (refer to item C5 of ACZ's Terms & Conditions).
				RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
WG520443	Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L65781**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L65781-03	WG519836	Fluoride	M300.0 - Ion Chromatography	DC	Sample required dilution. Non-target analyte exceeded calibration range.
			M300.0 - Ion Chromatography	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG519552	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	HE	Analysis performed past holding time. Method holding time is less than or equal to 7 days and sample was received with less than half of the holding time remaining (refer to item C5 of ACZ's Terms & Conditions).
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			M353.2 - Automated Cadmium Reduction	HE	Analysis performed past holding time. Method holding time is less than or equal to 7 days and sample was received with less than half of the holding time remaining (refer to item C5 of ACZ's Terms & Conditions).
WG520443	Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).	
		M353.2 - Automated Cadmium Reduction	HE	Analysis performed past holding time. Method holding time is less than or equal to 7 days and sample was received with less than half of the holding time remaining (refer to item C5 of ACZ's Terms & Conditions).	
		M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).	
L65781-04	WG519836	Fluoride	M351.2 - TKN by Block Digester	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			M300.0 - Ion Chromatography	DC	Sample required dilution. Non-target analyte exceeded calibration range.
			M300.0 - Ion Chromatography	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
WG519131	Nitrite as N, dissolved	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).	
		M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).	
		M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).	
WG520443	Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).	
		M351.2 - TKN by Block Digester	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).	
		M351.2 - TKN by Block Digester	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).	

Energy Fuels Resources (USA) Inc.

Project ID:

Sample ID: CYN-MON-01-2021-Q2

Locator:

ACZ Sample ID: **L65781-01**

Date Sampled: 05/10/21 16:15

Date Received: 05/12/21

Sample Matrix: Groundwater

Combined Radium (total)

Prep Method:

Calculation (RA226 + RA228)

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Combined Radium (total)	06/08/21 9:52		1.9			pCi/L		calc

Gross Alpha Total, corrected

Prep Method:

Calculation

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Gross Alpha Total, corrected	06/08/21 9:52		3.8			pCi/L		calc

Gross Alpha, total

Prep Method:

M900.0

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Gross Alpha, total	05/21/21 0:24		27	6.2	21	pCi/L	*	cer

Radium 226, total

Prep Method:

M903.1

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 226, total	05/24/21 0:17		1.9	0.2	0.12	pCi/L	*	djc

Radium 228, total

Prep Method:

M904.0

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 228, total	05/26/21 14:09		0.08	0.86	2	pCi/L	*	fdw

Uranium, Isotopic Total

Prep Method:

Eichrom ACW03

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Uranium 234, total	05/19/21 8:14		18.5	3.7	2.6	pCi/L	*	djc
Uranium 235, total	05/19/21 8:14		-5.1	1.8	4.3	pCi/L	*	djc
Uranium 238, total	05/19/21 8:14		4.7	2.4	3.4	pCi/L	*	djc

Arizona license number: **AZ0102**

Energy Fuels Resources (USA) Inc.
 Project ID:
 Sample ID: CYN-MON-02-2021-Q2
 Locator:

ACZ Sample ID: **L65781-02**
 Date Sampled: 05/10/21 11:59
 Date Received: 05/12/21
 Sample Matrix: Groundwater

Combined Radium (total)
 Calculation (RA226 + RA228)

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Combined Radium (total)	06/08/21 9:52		2.0			pCi/L		calc

Gross Alpha Total, corrected
 Calculation

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Gross Alpha Total, corrected	06/08/21 9:52		-110			pCi/L		calc

Gross Alpha, total
 M900.0

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Gross Alpha, total	05/21/21 0:25		11	4	20	pCi/L	*	cer

Radium 226, total
 M903.1

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 226, total	05/24/21 0:18		2	0.21	0.2	pCi/L		djc

Radium 228, total
 M904.0

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 228, total	05/26/21 14:09		0.68	0.68	1.6	pCi/L	*	fdw

Uranium, Isotopic Total
 Eichrom ACW03

Prep Method:

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Uranium 234, total	05/19/21 8:14		68.8	8.7	0.28	pCi/L	*	djc
Uranium 235, total	05/19/21 8:14		3.51	1.4	0.34	pCi/L	*	djc
Uranium 238, total	05/19/21 8:14		45.6	6.3	0.75	pCi/L	*	djc

Arizona license number: **AZ0102**

Energy Fuels Resources (USA) Inc.

Project ID:

Sample ID: CYN-MON-02-2021-Q2-DUP

Locator:

ACZ Sample ID: **L65781-03**

Date Sampled: 05/10/21 11:59

Date Received: 05/12/21

Sample Matrix: Groundwater

Combined Radium (total)

Prep Method:

Calculation (RA226 + RA228)

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Combined Radium (total)	06/08/21 9:52		2.3			pCi/L		calc

Gross Alpha Total, corrected

Prep Method:

Calculation

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Gross Alpha Total, corrected	06/08/21 9:52		9.4			pCi/L		calc

Gross Alpha, total

Prep Method:

M900.0

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Gross Alpha, total	05/21/21 0:27		15	4.8	21	pCi/L	*	cer

Radium 226, total

Prep Method:

M903.1

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 226, total	05/24/21 0:20		2.3	0.24	0.22	pCi/L		djc

Radium 228, total

Prep Method:

M904.0

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 228, total	05/26/21 14:09		0.47	0.75	1.9	pCi/L	*	fdw

Uranium, Isotopic Total

Prep Method:

Eichrom ACW03

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Uranium 234, total	05/19/21 8:14		5.64	2.1	2.4	pCi/L	*	djc
Uranium 235, total	05/19/21 8:14		0.52	0.73	1.2	pCi/L	*	djc
Uranium 238, total	05/19/21 8:14		1.74	1.8	2.9	pCi/L	*	djc

Arizona license number: **AZ0102**

Energy Fuels Resources (USA) Inc.

Project ID:

Sample ID: CYN-MON-03-2021-Q2

Locator:

ACZ Sample ID: **L65781-04**

Date Sampled: 05/11/21 10:52

Date Received: 05/12/21

Sample Matrix: Groundwater

Combined Radium (total)

Prep Method:

Calculation (RA226 + RA228)

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Combined Radium (total)	06/08/21 9:52		1.3			pCi/L		calc

Gross Alpha Total, corrected

Prep Method:

Calculation

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Gross Alpha Total, corrected	06/08/21 9:52		7.9			pCi/L		calc

Gross Alpha, total

Prep Method:

M900.0

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Gross Alpha, total	05/21/21 0:28		11	5	15	pCi/L	*	cer

Radium 226, total

Prep Method:

M903.1

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 226, total	05/24/21 0:21		1.3	0.16	0.08	pCi/L		djc

Radium 228, total

Prep Method:

M904.0

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 228, total	05/26/21 14:09		-0.11	0.67	1.5	pCi/L	*	fdw

Uranium, Isotopic Total

Prep Method:

Eichrom ACW03

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Uranium 234, total	05/19/21 8:14		3.1	1.7	2.4	pCi/L	*	djc
Uranium 235, total	05/19/21 8:14		0.295	0.91	1.8	pCi/L	*	djc
Uranium 238, total	05/19/21 8:14		0.824	1.5	2.6	pCi/L	*	djc

Arizona license number: **AZ0102**

Report Header Explanations

<i>Batch</i>	A distinct set of samples analyzed at a specific time
<i>Error(+/-)</i>	Calculated sample specific uncertainty
<i>Found</i>	Value of the QC Type of interest
<i>Limit</i>	Upper limit for RPD, in %.
<i>LCL</i>	Lower Control Limit, in % (except for LCSS, mg/Kg)
<i>LLD</i>	Calculated sample specific Lower Limit of Detection
<i>PCN/SCN</i>	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
<i>PQL</i>	Practical Quantitation Limit
<i>QC</i>	True Value of the Control Sample or the amount added to the Spike
<i>Rec</i>	Amount of the true value or spike added recovered, in % (except for LCSS, mg/Kg)
<i>RER</i>	Relative Error Ratio, calculation used for Dup. QC taking into account the error factor.
<i>RPD</i>	Relative Percent Difference, calculation used for Duplicate QC Types
<i>UCL</i>	Upper Control Limit, in % (except for LCSS, mg/Kg)
<i>Sample</i>	Value of the Sample of interest

QC Sample Types

<i>DUP</i>	Sample Duplicate	<i>MS/MSD</i>	Matrix Spike/Matrix Spike Duplicate
<i>LCSS</i>	Laboratory Control Sample - Soil	<i>PBS</i>	Prep Blank - Soil
<i>LCSW</i>	Laboratory Control Sample - Water	<i>PBW</i>	Prep Blank - Water

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Matrix Spikes	Determines sample matrix interferences, if any.

ACZ Qualifiers (Qual)

H	Analysis exceeded method hold time.
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Method Prefix Reference

M	EPA methodology, including those under SDWA, CWA, and RCRA
SM	Standard Methods for the Examination of Water and Wastewater.
D	ASTM
RP	DOE
ESM	DOE/ESM

Comments

- (1) Solid matrices are reported on a dry weight basis.
- (2) Preparation method: "Method" indicates preparation defined in analytical method.
- (3) QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
- (4) An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.

For a complete list of ACZ's Extended Qualifiers, please click:

<https://acz.com/wp-content/uploads/2019/04/Ext-Qual-List.pdf>

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L65781

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Gross Alpha, total M900.0 **Units: pCi/L**

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG519434																
WG519434PBW	PBW	05/21/21						.42	0.91	4.4			8.8			
WG519434LCSWA	LCSW	05/21/21	PCN62436	100				120	9.2	4.8	120	67	144			
L65661-01DUP	DUP-RPD	05/21/21			11	4	19	38	7	7.8			110	20		RM
L65846-01MSA	MS	05/21/21	PCN62436	100	1.9	1.7	6.8	78	9.1	5.9	76	67	144			
L65847-02DUP	DUP-RER	05/21/21			1.3	1.5	6.1	2.6	1.7	5.6				0.57	2	
L65847-02DUP	DUP-RPD	05/21/21			1.3	1.5	6.1	2.6	1.7	5.6				67	20	RG

Radium 226, total M903.1 **Units: pCi/L**

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG519344																
WG519344PBW	PBW	05/24/21						.14	0.1	0.1			0.2			
WG519344LCSW	LCSW	05/24/21	PCN62879	20				18	0.63	0.12	90	43	148			
L65686-01DUP	DUP-RER	05/24/21			0.25	0.16	0.28	-0.9	0.1	0.13			1.8	2		
L65686-01DUP	DUP-RPD	05/24/21			0.25	0.16	0.28	-0.9	0.1	0.13			425	20		RG
L65781-04DUP	DUP-RPD	05/24/21			1.3	0.16	0.08	1.4	0.19	0.15				7	20	
L65686-02MS	MS	05/24/21	PCN62879	40	0.22	0.11	0.08	41	1.3	0.29	102	43	148			

Radium 228, total M904.0 **Units: pCi/L**

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG519338																
L65781-02DUP	DUP-RPD	05/26/21			0.88	0.68	1.6	1.1	1.9	4.3			47	20		RG
L65781-02DUP	DUP-RER	05/26/21			0.88	0.68	1.6	1.1	1.9	4.3			0.21	2		
L65646-04DUP	DUP-RPD	05/26/21			16	3.5	6.7	20	4.4	8.8			22	20		RG
L65646-01MS	MS	05/26/21	PCN63356	16.35	-1.3	1.5	3.4	15	2.6	4.7	100	47	123			
L65646-04DUP	DUP-RER	05/26/21			16	3.5	6.7	20	4.4	8.8			0.71	2		
WG519338LCSW	LCSW	05/26/21	PCN63356	9.81				12	1.7	1.2	122	47	123			
WG519338PBW	PBW	05/26/21						1.2	0.77	0.75			1.5			



Laboratories, Inc.

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

**Radiochemistry QC
Summary**

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L65781**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

U-232

Eichrom ACW03

Units: %

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG519280																
WG519280PBW	PBW	05/19/21				130	30	84	130	30			60			
WG519280LCSW	LCSW	05/19/21	RC201222-11			130	30	56	130	30						
L64633-02DUP	DUP-RPD	05/19/21			81	130	30	87	130	30					20	
L64633-02DUP	DUP-RPD	05/19/21			81	130	30	87	130	30				7	20	
L64633-02DUP	DUP-RER	05/19/21			81	130	30	87	130	30					20	
L65661-01MS	MS	05/19/21	RC201222-11		71	130	30	67	130	30						

U-234

Eichrom ACW03

Units: pCi/L

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG519280																
WG519280PBW	PBW	05/19/21				0.58	1.3	-0.0516	0.58	1.3			2.6			
WG519280LCSW	LCSW	05/19/21	RC201222-11	98		14	2.2	105	14	2.2	107	77	122			
L64633-02DUP	DUP-RPD	05/19/21			1.35	0.92	1.1	123	0.64	1.3					20	RG
L64633-02DUP	DUP-RER	05/19/21			1.35	0.92	1.1	123	0.64	1.3				1.09	2	
L65661-01MS	MS	05/19/21	RC201222-11	98	8.77	2.3	1.5	101	13	1.7	94	77	122			

U-235

Eichrom ACW03

Units: pCi/L

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG519280																
WG519280PBW	PBW	05/19/21				0.75	1.5	.1	0.75	1.5			3			
WG519280LCSW	LCSW	05/19/21	RC201222-11	4.48		2.3	0.56	5.94	2.3	0.56	133	42	136			
L64633-02DUP	DUP-RPD	05/19/21			0.407	0.53	0.37	.134	0.59	1.2					20	RG
L64633-02DUP	DUP-RER	05/19/21			0.407	0.53	0.37	.134	0.59	1.2				0.34	2	
L65661-01MS	MS	05/19/21	RC201222-11	4.48	1.36	0.99	1.1	7.29	2.5	2.1	132	42	136			

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L65781**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

U-238

Eichrom ACW03

Units: pCi/L

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG519280																
WG519280PBW	PBW	05/19/21				0.46	0.97	.107	0.46	0.97			1.94			
WG519280LCSW	LCSW	05/19/21	RC201222-11	97.5		12	1.8	86.2	12	1.8	88	87	124			
L64633-02DUP	DUP-RER	05/19/21			0.524	0.52	0.3	-398	0.61	1.5				1.15	2	
L64633-02DUP	DUP-RPD	05/19/21			0.524	0.52	0.3	-398	0.61	1.5				1463	20	RG
L65661-01MS	MS	05/19/21	RC201222-11	97.5	1.94	1	0.9	66.2	9.3	1.7	66	87	124			M2

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L65781**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L65781-01	WG519434	Gross Alpha, total	M900.0	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
	WG519344	Radium 226, total	M903.1	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
	WG519338	Radium 228, total	M904.0	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
	WG519280	Uranium 234, total	Eichrom ACW03	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
		Uranium 235, total	Eichrom ACW03	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
		Uranium 238, total	Eichrom ACW03	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	Eichrom ACW03		RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.	
L65781-02	WG519434	Gross Alpha, total	M900.0	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
	WG519338	Radium 228, total	M904.0	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
	WG519280	Uranium 234, total	Eichrom ACW03	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
		Uranium 235, total	Eichrom ACW03	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
		Uranium 238, total	Eichrom ACW03	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	Eichrom ACW03		RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.	
L65781-03	WG519434	Gross Alpha, total	M900.0	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
	WG519338	Radium 228, total	M904.0	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
	WG519280	Uranium 234, total	Eichrom ACW03	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
		Uranium 235, total	Eichrom ACW03	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
		Uranium 238, total	Eichrom ACW03	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
Eichrom ACW03		RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.		

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L65781**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L65781-04	WG519434	Gross Alpha, total	M900.0	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
	WG519338	Radium 228, total	M904.0	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
	WG519280	Uranium 234, total	Eichrom ACW03	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
		Uranium 235, total	Eichrom ACW03	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
		Uranium 238, total	Eichrom ACW03	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			Eichrom ACW03	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L65781**

Radiochemistry

The following parameters are not offered for certification or are not covered by AZ certificate #AZ0102.

Uranium 234, total	Eichrom ACW03
Uranium 235, total	Eichrom ACW03
Uranium 238, total	Eichrom ACW03

The following parameters are not offered for certification or are not covered by NELAC certificate #ACZ.

Uranium 234, total	Eichrom ACW03
Uranium 235, total	Eichrom ACW03
Uranium 238, total	Eichrom ACW03

Wet Chemistry

The following parameters are not offered for certification or are not covered by AZ certificate #AZ0102.

Cyanide, Free	D6888-09/OIA-1677-09
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Sample Receipt

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L65781

Date Received: 05/12/2021 10:22

Received By:

Date Printed: 5/13/2021

Receipt Verification

- 1) Is a foreign soil permit included for applicable samples?
- 2) Is the Chain of Custody form or other directive shipping papers present?
- 3) Does this project require special handling procedures such as CLP protocol?
- 4) Are any samples NRC licensable material?
- 5) If samples are received past hold time, proceed with requested short hold time analyses?
- 6) Is the Chain of Custody form complete and accurate?
- 7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples?
 A change was made in the Report to: Name, Invoice to: E-mail and Sample ID: Date:Time section prior to ACZ custody.
 A change was made in the Report to: Name, Invoice to: E-mail and Sample ID: Date:Time section prior to ACZ custody.
 A change was made in the Report to: Name, Invoice to: E-mail and Sample ID: Date:Time section prior to ACZ custody.
 A change was made in the Report to: Name, Invoice to: E-mail and Sample ID: Date:Time section prior to ACZ custody.
 A change was made in the Report to: Name, Invoice to: E-mail and Sample ID: Date:Time section prior to ACZ custody.

YES	NO	NA
		X
X		
	X	
		X
X		
X		
X		

Samples/Containers

- 8) Are all containers intact and with no leaks?
- 9) Are all labels on containers and are they intact and legible?
- 10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?
- 11) For preserved bottle types, was the pH checked and within limits? 1
- 12) Is there sufficient sample volume to perform all requested work?
- 13) Is the custody seal intact on all containers?
- 14) Are samples that require zero headspace acceptable?
- 15) Are all sample containers appropriate for analytical requirements?
- 16) Is there an Hg-1631 trip blank present?
- 17) Is there a VOA trip blank present?
- 18) Were all samples received within hold time?

YES	NO	NA
X		
X		
X		
X		
X		
		X
		X
X		
		X
		X
X		

NA indicates Not Applicable

Chain of Custody Related Remarks

Client Contact Remarks

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L65781
 Date Received: 05/12/2021 10:22
 Received By:
 Date Printed: 5/13/2021

Shipping Containers

Cooler Id	Temp (°C)	Temp Criteria (°C)	Rad (µR/Hr)	Custody Seal Intact?
6577	3.8	<=6.0	15	Yes

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

¹ The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na₂S₂O₃ preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).



Laboratories, Inc. L65781

CHAIN of CUSTODY

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Report to:

Name: Kathy Weinel
Company: Energy Fuels
E-mail: kweinel@energyfuels.com

Address: 225 Union Blvd. Suite 600
Lakewood, Co 80228
Telephone: 303-389-4134

Copy of Report to:

Name:
Company:

E-mail:
Telephone:

Invoice to:

Name: Kathy Weinel
Company: Energy Fuels
E-mail: kweinel@energyfuels.com

Address: 225 Union Blvd, Suite 600
Lakewood, Co 80228
Telephone: 303-389-4134

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES [X] NO []

Are samples for SDWA Compliance Monitoring? Yes [] No [X]

If yes, please include state forms. Results will be reported to PQL for Colorado.

Sampler's Name: Matt Germansen Sampler's Site Information State: AZ Zip code: Time Zone:

Sampler's Signature: [Signature] I attest to the authenticity and validity of this sample. I understand that intentionally mislabeling the time/date/location or tampering with the sample in anyway is considered fraud and punishable by State Law.

PROJECT INFORMATION

ANALYSES REQUESTED (attach list or use quote number)

Table with columns: Quote #, PO#, Reporting state, Check box, SAMPLE IDENTIFICATION, DATE:TIME, Matrix, # of Containers, and analysis results. Includes handwritten entries like 'Pinyon Plain GW' and 'SEE QUOTE'.

Matrix: SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS

Normal TAT, all Samples

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

Table for Relinquished and Received information with columns: RELINQUISHED BY, DATE:TIME, RECEIVED BY, DATE:TIME. Includes handwritten names and dates.

65781 Chain of Custody

June 30, 2021

Report to:

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

Bill to:

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

Project ID:

ACZ Project ID: L66054

Kathy Weinel:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on May 26, 2021. This project has been assigned to ACZ's project number, L66054. Please reference this number in all future inquiries.

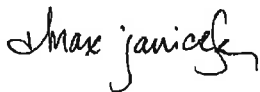
All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L66054. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after July 30, 2021. If the samples are determined to be hazardous, additional charges apply for disposal (typically \$11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.



Max Janicek has reviewed and approved this report.



Energy Fuels Resources (USA) Inc.

June 30, 2021

Project ID:

ACZ Project ID: L66054

Sample Receipt

ACZ Laboratories, Inc. (ACZ) received 1 groundwater sample from Energy Fuels Resources (USA) Inc. on May 26, 2021. The sample was received in good condition. Upon receipt, the sample custodian removed the sample from the cooler, inspected the contents, and logged the sample into ACZ's computerized Laboratory Information Management System (LIMS). The sample was assigned ACZ LIMS project number L66054. The custodian verified the sample information entered into the computer against the chain of custody (COC) forms and sample bottle labels.

Holding Times

All analyses were performed within EPA recommended holding times.

Sample Analysis

This sample was analyzed for inorganic, radiochemistry parameters. The individual methods are referenced on both the ACZ invoice and the analytical reports. The extended qualifier reports may contain footnotes qualifying specific elements due to QC failures. In addition, the following has been noted with this specific project:

The below is from WG520097

Qualifier: N1

Applies to:

L66054-01/TOTAL DISSOLVED SOLIDS

Oven range is 80 C to 91 C. Over the weekend, the oven had minor high hit out of range for the oven temperature. When the oven temperature was checked on Monday 6/1/21, the max temp read at 92.5C. The WG was removed from the oven on 6/1/21 when the oven was back in range. The WG was examined and there was no splattering of samples.

Energy Fuels Resources (USA) Inc.

Project ID:

Sample ID: PP WELL-2021-Q2

ACZ Sample ID: **L66054-01**

Date Sampled: 05/25/21 11:05

Date Received: 05/26/21

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Nitrogen, total Kjeldahl	M351.2 - Block Digestor								06/21/21 13:09	md

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	06/10/21 18:33	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	0.00020	B		mg/L	0.0002	0.001	06/10/21 18:33	bsu
Barium, dissolved	M200.7 ICP	1	0.0879			mg/L	0.007	0.035	06/08/21 17:59	kja
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	06/10/21 18:33	bsu
Cadmium, dissolved	M200.8 ICP-MS	1	<0.00005	U		mg/L	0.00005	0.00025	06/10/21 18:33	bsu
Calcium, dissolved	M200.7 ICP	1	42.2			mg/L	0.1	0.5	06/08/21 17:59	kja
Chromium, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	06/08/21 17:59	kja
Lead, dissolved	M200.8 ICP-MS	1	0.00049	B		mg/L	0.0001	0.0005	06/10/21 18:33	bsu
Magnesium, dissolved	M200.7 ICP	1	29.1			mg/L	0.2	1	06/08/21 17:59	kja
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	05/28/21 11:04	mlh
Nickel, dissolved	M200.7 ICP	1	0.0097	B		mg/L	0.008	0.04	06/08/21 17:59	kja
Potassium, dissolved	M200.7 ICP	1	2.06			mg/L	0.2	1	06/08/21 17:59	kja
Selenium, dissolved	M200.8 ICP-MS	1	0.00530			mg/L	0.0001	0.00025	06/10/21 18:33	bsu
Sodium, dissolved	M200.7 ICP	1	5.54			mg/L	0.2	1	06/08/21 17:59	kja
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	06/10/21 18:33	bsu
Uranium, dissolved	M200.8 ICP-MS	1	0.0140			mg/L	0.0001	0.0005	06/10/21 18:33	bsu

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	210			mg/L	2	20	05/28/21 0:00	eep
Carbonate as CaCO3		1	<2	U		mg/L	2	20	05/28/21 0:00	eep
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	05/28/21 0:00	eep
Total Alkalinity		1	210			mg/L	2	20	05/28/21 0:00	eep
Conductivity @25C	SM2510B	1	442			umhos/cm	1	10	05/28/21 0:51	eep
Cyanide, Free	D6888-09/OIA-1677-09	1	<0.003	U	*	mg/L	0.003	0.01	05/27/21 15:05	md
Fluoride	M300.0 - Ion Chromatography	1	0.248	B	*	mg/L	0.05	0.25	06/11/21 16:36	krh
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2		0.09	B		mg/L	0.02	0.1	06/30/21 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.092	B		mg/L	0.02	0.1	05/27/21 0:17	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.01	U	*	mg/L	0.01	0.05	05/27/21 0:17	pjb
Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digestor	1	<0.2	U	*	mg/L	0.2	0.5	06/22/21 22:40	pjb
pH (lab)	SM4500H+ B									
pH		1	8.1	H		units	0.1	0.1	05/28/21 0:00	eep
pH measured at		1	20.5			C	0.1	0.1	05/28/21 0:00	eep
Residue, Filterable (TDS) @180C	SM2540C	1	250		*	mg/L	20	40	05/28/21 11:33	scd
Sulfate	M300.0 - Ion Chromatography	1	18.8		*	mg/L	0.4	2	06/11/21 16:36	krh
Total Nitrogen, calc	Calculation: NO3NO2+TKN		<0.1	U		mg/L	0.1	0.5	06/30/21 0:00	calc

Energy Fuels Resources (USA) Inc.

Project ID:

Sample ID: PP WELL-2021-Q2

ACZ Sample ID: **L66054-01**

Date Sampled: 05/25/21 11:05

Date Received: 05/26/21

Sample Matrix: Groundwater

Arizona license number: AZ0102

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L66054**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Alkalinity as CaCO3

SM2320B - Titration

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520049													
WG520049PBW1	PBW	05/27/21 19:07				U	mg/L		-20	20			
WG520049LCSW3	LCSW	05/27/21 19:25	WC210517-8	820.0001		801	mg/L	98	90	110			
WG520049LCSW6	LCSW	05/27/21 22:27	WC210517-8	820.0001		806.9	mg/L	98	90	110			
WG520049PBW2	PBW	05/27/21 22:34				U	mg/L		-20	20			
L66054-01DUP	DUP	05/28/21 1:00			210	211.2	mg/L				1	20	
WG520049LCSW9	LCSW	05/28/21 1:19	WC210517-8	820.0001		807.5	mg/L	98	90	110			
WG520049PBW3	PBW	05/28/21 1:26				U	mg/L		-20	20			
WG520049LCSW12	LCSW	05/28/21 4:25	WC210517-8	820.0001		813.8	mg/L	99	90	110			
WG520049PBW4	PBW	05/28/21 4:32				U	mg/L		-20	20			
WG520049LCSW15	LCSW	05/28/21 8:18	WC210517-8	820.0001		800.6	mg/L	98	90	110			

Antimony, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520825													
WG520825ICV	ICV	06/10/21 18:28	MS210503-1	.0201		.01963	mg/L	98	90	110			
WG520825ICB	ICB	06/10/21 18:30				U	mg/L		-0.00088	0.00088			
WG520825LFB	LFB	06/10/21 18:32	MS210420-3	.01		.00906	mg/L	91	85	115			
L66161-02AS	AS	06/10/21 18:39	MS210420-3	.01	U	.00857	mg/L	86	70	130			
L66161-02ASD	ASD	06/10/21 18:41	MS210420-3	.01	U	.01009	mg/L	101	70	130	16	20	

Arsenic, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520825													
WG520825ICV	ICV	06/10/21 18:28	MS210503-1	.05		.04977	mg/L	100	90	110			
WG520825ICB	ICB	06/10/21 18:30				U	mg/L		-0.00044	0.00044			
WG520825LFB	LFB	06/10/21 18:32	MS210420-3	.05005		.04849	mg/L	97	85	115			
L66161-02AS	AS	06/10/21 18:39	MS210420-3	.05005	U	.04995	mg/L	100	70	130			
L66161-02ASD	ASD	06/10/21 18:41	MS210420-3	.05005	U	.05584	mg/L	112	70	130	11	20	

Barium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520559													
WG520559ICV	ICV	06/08/21 17:36	11210514-2	2		1.9718	mg/L	99	95	105			
WG520559ICB	ICB	06/08/21 17:42				U	mg/L		-0.021	0.021			
WG520559LFB	LFB	06/08/21 17:56	11210601-2	.5		.4837	mg/L	97	85	115			
L66148-03AS	AS	06/08/21 18:12	11210601-2	.5	.0331	.508	mg/L	95	85	115			
L66148-03ASD	ASD	06/08/21 18:15	11210601-2	.5	.0331	.5101	mg/L	95	85	115	0	20	

Beryllium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520825													
WG520825ICV	ICV	06/10/21 18:28	MS210503-1	.05		.046368	mg/L	93	90	110			
WG520825ICB	ICB	06/10/21 18:30				.000119	mg/L		-0.000176	0.000176			
WG520825LFB	LFB	06/10/21 18:32	MS210420-3	.05005		.046635	mg/L	93	85	115			
L66161-02AS	AS	06/10/21 18:39	MS210420-3	.05005	U	.04936	mg/L	99	70	130			
L66161-02ASD	ASD	06/10/21 18:41	MS210420-3	.05005	U	.054826	mg/L	110	70	130	10	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L66054**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Cadmium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520825													
WG520825ICV	ICV	06/10/21 18:28	MS210503-1	.05		.051354	mg/L	103	90	110			
WG520825ICB	ICB	06/10/21 18:30				U	mg/L		-0.00011	0.00011			
WG520825LFB	LFB	06/10/21 18:32	MS210420-3	.05005		.048282	mg/L	96	85	115			
L66161-02AS	AS	06/10/21 18:39	MS210420-3	.05005	U	.049681	mg/L	99	70	130			
L66161-02ASD	ASD	06/10/21 18:41	MS210420-3	.05005	U	.055375	mg/L	111	70	130	11	20	

Calcium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520559													
WG520559ICV	ICV	06/08/21 17:36	II210514-2	100		100.08	mg/L	100	95	105			
WG520559ICB	ICB	06/08/21 17:42				U	mg/L		-0.3	0.3			
WG520559LFB	LFB	06/08/21 17:56	II210601-2	67.98753		67.5	mg/L	99	85	115			
L66148-03AS	AS	06/08/21 18:12	II210601-2	67.98753	12.4	78.89	mg/L	98	85	115			
L66148-03ASD	ASD	06/08/21 18:15	II210601-2	67.98753	12.4	79.32	mg/L	98	85	115	1	20	

Chromium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520559													
WG520559ICV	ICV	06/08/21 17:36	II210514-2	2		1.985	mg/L	99	95	105			
WG520559ICB	ICB	06/08/21 17:42				U	mg/L		-0.06	0.06			
WG520559LFB	LFB	06/08/21 17:56	II210601-2	.502		.492	mg/L	98	85	115			
L66148-03AS	AS	06/08/21 18:12	II210601-2	.502	U	.492	mg/L	98	85	115			
L66148-03ASD	ASD	06/08/21 18:15	II210601-2	.502	U	.494	mg/L	98	85	115	0	20	

Conductivity @25C

SM2510B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520049													
WG520049LCSW2	LCSW	05/27/21 19:13	PCN63133	1410		1437	umhos/cm	102	90	110			
WG520049LCSW5	LCSW	05/27/21 22:15	PCN63133	1410		1428	umhos/cm	101	90	110			
L66054-01DUP	DUP	05/28/21 1:00			442	443	umhos/cm				0	20	
WG520049LCSW8	LCSW	05/28/21 1:06	PCN63133	1410		1427	umhos/cm	101	90	110			
WG520049LCSW11	LCSW	05/28/21 4:12	PCN63133	1410		1420	umhos/cm	101	90	110			
WG520049LCSW14	LCSW	05/28/21 8:07	PCN63133	1410		1409	umhos/cm	100	90	110			

Cyanide, Free

D6888-09/OIA-1677-09

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519968													
WG519968ICV	ICV	05/27/21 14:47	WI210527-7	.3		.2936	mg/L	98	90	110			
WG519968ICB	ICB	05/27/21 14:49				U	mg/L		-0.003	0.003			
L65933-03AS	AS	05/27/21 14:57	WI210527-5	.1	.0084	.1139	mg/L	106	90	110			
L65933-03ASD	ASD	05/27/21 14:59	WI210527-5	.1	.0084	.1109	mg/L	103	90	110	3	20	
WG519968ICV1	ICV	05/27/21 16:38	WI210527-7	.3		.2961	mg/L	99	90	110			
WG519968ICB1	ICB	05/27/21 16:40				U	mg/L		-0.003	0.003			
WG519968LFB	LFB	05/27/21 16:44	WI210527-5	.1		.0968	mg/L	97	90	110			

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L66054**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Fluoride

M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519281													
WG519281ICV	ICV	05/14/21 17:41	WI210520-6	4.004		4.26	mg/L	106	90	110			
WG519281ICB	ICB	05/14/21 17:59				U	mg/L		-0.05	0.05			
WG520496													
WG520496LFB1	LFB	06/08/21 14:40	WI210329-1	1.5		1.485	mg/L	99	90	110			
L66124-01DUP	DUP	06/08/21 15:33			U	U	mg/L				0	20	RA
L66124-02AS	AS	06/08/21 16:09	WI210329-1	3	U	3.109	mg/L	104	90	110			
WG520496LFB2	LFB	06/08/21 23:19	WI210329-1	1.5		1.476	mg/L	98	90	110			

Lead, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520825													
WG520825ICV	ICV	06/10/21 18:28	MS210503-1	.05		.05062	mg/L	101	90	110			
WG520825ICB	ICB	06/10/21 18:30				.00011	mg/L		-0.00022	0.00022			
WG520825LFB	LFB	06/10/21 18:32	MS210420-3	.05005		.04889	mg/L	98	85	115			
L66161-02AS	AS	06/10/21 18:39	MS210420-3	.05005	U	.04941	mg/L	99	70	130			
L66161-02ASD	ASD	06/10/21 18:41	MS210420-3	.05005	U	.05487	mg/L	110	70	130	10	20	

Magnesium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520559													
WG520559ICV	ICV	06/08/21 17:36	II210514-2	100		98.57	mg/L	99	95	105			
WG520559ICB	ICB	06/08/21 17:42				U	mg/L		-0.6	0.6			
WG520559LFB	LFB	06/08/21 17:56	II210601-2	50.00302		48.22	mg/L	96	85	115			
L66148-03AS	AS	06/08/21 18:12	II210601-2	50.00302	1.03	49.22	mg/L	96	85	115			
L66148-03ASD	ASD	06/08/21 18:15	II210601-2	50.00302	1.03	49.43	mg/L	97	85	115	0	20	

Mercury, dissolved

M245.1 CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520056													
WG520056ICV1	ICV	05/28/21 10:16	HG210329-2	.00501		.00516	mg/L	103	95	105			
WG520056ICB	ICB	05/28/21 10:17				U	mg/L		-0.0002	0.0002			
WG520057													
WG520057LRB	LRB	05/28/21 11:00				U	mg/L		-0.00044	0.00044			
WG520057LFB	LFB	05/28/21 11:01	HG210513-4	.002002		.00199	mg/L	99	85	115			
L66060-01LFM	LFM	05/28/21 13:55	HG210513-4	.002002	U	.00182	mg/L	91	85	115			
L66060-01LFMD	LFMD	05/28/21 13:56	HG210513-4	.002002	U	.00175	mg/L	87	85	115	4	20	

Nickel, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520559													
WG520559ICV	ICV	06/08/21 17:36	II210514-2	2		1.943	mg/L	97	95	105			
WG520559ICB	ICB	06/08/21 17:42				U	mg/L		-0.024	0.024			
WG520559LFB	LFB	06/08/21 17:56	II210601-2	.5		.4802	mg/L	96	85	115			
L66148-03AS	AS	06/08/21 18:12	II210601-2	.5	U	.4806	mg/L	96	85	115			
L66148-03ASD	ASD	06/08/21 18:15	II210601-2	.5	U	.4796	mg/L	96	85	115	0	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L66054**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Nitrate/Nitrite as N, dissolved

M353.2 - Automated Cadmium Reduction

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519960													
WG519960ICV	ICV	05/27/21 0:05	WI210302-17	2.416		2.404	mg/L	100	90	110			
WG519960ICB	ICB	05/27/21 0:06				U	mg/L		-0.02	0.02			
WG519960LFB	LFB	05/27/21 0:10	WI210331-13	2		2.018	mg/L	101	90	110			
L66057-02DUP	DUP	05/27/21 0:49			28.5	28.498	mg/L				0	20	
L66057-02AS	AS	05/27/21 0:50	WI210331-13	40	28.5	68.912	mg/L	101	90	110			

Nitrite as N, dissolved

M353.2 - Automated Cadmium Reduction

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519960													
WG519960ICV	ICV	05/27/21 0:05	WI210302-17	.609		.633	mg/L	104	90	110			
WG519960ICB	ICB	05/27/21 0:06				U	mg/L		-0.01	0.01			
WG519960LFB	LFB	05/27/21 0:10	WI210331-13	1		1.004	mg/L	100	90	110			
L66057-02DUP	DUP	05/27/21 0:26			.194	.193	mg/L				1	20	
L66057-02AS	AS	05/27/21 0:27	WI210331-13	1	.194	1.198	mg/L	100	90	110			

Nitrogen, total Kjeldahl

M351.2 - TKN by Block Digester

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG521665													
WG521665ICV	ICV	06/22/21 22:27	WI210614-2	4		4.04	mg/L	101	90	110			
WG521665ICB	ICB	06/22/21 22:29				U	mg/L		-0.2	0.2			
WG521467LRB	LRB	06/22/21 22:30				U	mg/L		-0.2	0.2			
WG521467LFB	LFB	06/22/21 22:31	WI210413-6	2.5		2.54	mg/L	102	90	110			
L66197-01LFM	LFM	06/22/21 22:44	WI210413-6	2.5	U	2.36	mg/L	94	90	110			
L66197-02DUP	DUP	06/22/21 22:47			U	U	mg/L				0	20	RA

pH (lab)

SM4500H+ B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520049													
WG520049LCSW1	LCSW	05/27/21 19:12	PCN61687	6		6.1	units	102	5.9	6.1			
WG520049LCSW4	LCSW	05/27/21 22:13	PCN61687	6		6.1	units	102	5.9	6.1			
L66054-01DUP	DUP	05/28/21 1:00			8.1	8.2	units				1	20	
WG520049LCSW7	LCSW	05/28/21 1:05	PCN61687	6		6.1	units	102	5.9	6.1			
WG520049LCSW10	LCSW	05/28/21 4:10	PCN61687	6		6.1	units	102	5.9	6.1			
WG520049LCSW13	LCSW	05/28/21 8:05	PCN61687	6		6.1	units	102	5.9	6.1			

Potassium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520559													
WG520559ICV	ICV	06/08/21 17:36	II210514-2	20		19.95	mg/L	100	95	105			
WG520559ICB	ICB	06/08/21 17:42				U	mg/L		-0.6	0.6			
WG520559LFB	LFB	06/08/21 17:56	II210601-2	100.0157		97.26	mg/L	97	85	115			
L66148-03AS	AS	06/08/21 18:12	II210601-2	100.0157	U	97.47	mg/L	97	85	115			
L66148-03ASD	ASD	06/08/21 18:15	II210601-2	100.0157	U	97.91	mg/L	98	85	115	0	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L66054**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Residue, Filterable (TDS) @180C

SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520097													
WG520097PBW	PBW	05/28/21 11:05				U	mg/L		-20	20			
WG520097LCSW	LCSW	05/28/21 11:07	PCN63554	1000		984	mg/L	98	80	120			
L66054-01DUP	DUP	05/28/21 11:35			250	250	mg/L				0	10	

Selenium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520825													
WG520825ICV	ICV	06/10/21 18:28	MS210503-1	.05		.05011	mg/L	100	90	110			
WG520825ICB	ICB	06/10/21 18:30				.00014	mg/L		-0.00022	0.00022			
WG520825LFB	LFB	06/10/21 18:32	MS210420-3	.05		.04875	mg/L	98	85	115			
L66161-02AS	AS	06/10/21 18:39	MS210420-3	.05	.00015	.05196	mg/L	104	70	130			
L66161-02ASD	ASD	06/10/21 18:41	MS210420-3	.05	.00015	.05767	mg/L	115	70	130	10	20	

Sodium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520559													
WG520559ICV	ICV	06/08/21 17:36	II210514-2	100		98.72	mg/L	99	95	105			
WG520559ICB	ICB	06/08/21 17:42				U	mg/L		-0.6	0.6			
WG520559LFB	LFB	06/08/21 17:56	II210601-2	100.0605		96.63	mg/L	97	85	115			
L66148-03AS	AS	06/08/21 18:12	II210601-2	100.0605	.42	97	mg/L	97	85	115			
L66148-03ASD	ASD	06/08/21 18:15	II210601-2	100.0605	.42	97.36	mg/L	97	85	115	0	20	

Sulfate

M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519281													
WG519281ICV	ICV	05/14/21 17:41	WI210520-6	51.15		51.41	mg/L	101	90	110			
WG519281ICB	ICB	05/14/21 17:59				U	mg/L		-0.4	0.4			
WG520496													
WG520496LFB1	LFB	06/08/21 14:40	WI210329-1	29.97		30.69	mg/L	102	90	110			
L66124-01DUP	DUP	06/08/21 15:33			1.28	1.25	mg/L				2	20	RA
L66124-02AS	AS	06/08/21 16:09	WI210329-1	59.94	49.3	111.72	mg/L	104	90	110			
WG520496LFB2	LFB	06/08/21 23:19	WI210329-1	29.97		30.77	mg/L	103	90	110			

Thallium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520825													
WG520825ICV	ICV	06/10/21 18:28	MS210503-1	.05		.0516	mg/L	103	90	110			
WG520825ICB	ICB	06/10/21 18:30				U	mg/L		-0.00022	0.00022			
WG520825LFB	LFB	06/10/21 18:32	MS210420-3	.05		.04832	mg/L	97	85	115			
L66161-02AS	AS	06/10/21 18:39	MS210420-3	.05	U	.04884	mg/L	98	70	130			
L66161-02ASD	ASD	06/10/21 18:41	MS210420-3	.05	U	.05439	mg/L	109	70	130	11	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L66054**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Uranium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520825													
WG520825ICV	ICV	06/10/21 18:28	MS210503-1	.05		.05051	mg/L	101	90	110			
WG520825ICB	ICB	06/10/21 18:30				U	mg/L		-0.00022	0.00022			
WG520825LFB	LFB	06/10/21 18:32	MS210420-3	.05		.04852	mg/L	97	85	115			
L66161-02AS	AS	06/10/21 18:39	MS210420-3	.05	.00089	.04985	mg/L	98	70	130			
L66161-02ASD	ASD	06/10/21 18:41	MS210420-3	.05	.00089	.05555	mg/L	109	70	130	11	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L66054**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L66054-01	WG520496	Fluoride	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG519960	Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG521665	Nitrogen, total Kjeldahl	M351.2 - TKN by Block Digester	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG520097	Residue, Filterable (TDS) @180C	SM2540C	N1	See Case Narrative.
	WG520496	Sulfate	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).

Energy Fuels Resources (USA) Inc.

Project ID:

Sample ID: PP WELL-2021-Q2

Locator:

ACZ Sample ID: **L66054-01**

Date Sampled: 05/25/21 11:05

Date Received: 05/26/21

Sample Matrix: Groundwater

Combined Radium (total)

Prep Method:

Calculation (RA226 + RA228)

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Combined Radium (total)	06/30/21 10:11		1.9			pCi/L		calc

Gross Alpha Total, corrected

Prep Method:

Calculation

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Gross Alpha Total, corrected	06/30/21 10:11		-5.3			pCi/L		calc

Gross Alpha, total

Prep Method:

M900.0

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Gross Alpha, total	06/25/21 0:24		13	4	17	pCi/L	*	fdw

Radium 226, total

Prep Method:

M903.1

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 226, total	06/08/21 0:33		1.9	0.2	0.24	pCi/L	*	dhjc

Radium 228, total

Prep Method:

M904.0

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 228, total	06/17/21 17:29		0.25	1	2.7	pCi/L	*	cer

Uranium, Isotopic Total

Prep Method:

Eichrom ACW03

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Uranium 234, total	06/12/21 9:48		11.8	3.2	2.1	pCi/L	*	amk
Uranium 235, total	06/12/21 9:48		0.637	0.84	0.58	pCi/L	*	amk
Uranium 238, total	06/12/21 9:48		5.83	2.3	2.1	pCi/L	*	amk

Arizona license number: AZ0102

Report Header Explanations

<i>Batch</i>	A distinct set of samples analyzed at a specific time
<i>Error(+/-)</i>	Calculated sample specific uncertainty
<i>Found</i>	Value of the QC Type of interest
<i>Limit</i>	Upper limit for RPD, in %.
<i>LCL</i>	Lower Control Limit, in % (except for LCSS, mg/Kg)
<i>LLD</i>	Calculated sample specific Lower Limit of Detection
<i>PCN/SCN</i>	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
<i>PQL</i>	Practical Quantitation Limit
<i>QC</i>	True Value of the Control Sample or the amount added to the Spike
<i>Rec</i>	Amount of the true value or spike added recovered, in % (except for LCSS, mg/Kg)
<i>REER</i>	Relative Error Ratio, calculation used for Dup. QC taking into account the error factor.
<i>RPD</i>	Relative Percent Difference, calculation used for Duplicate QC Types
<i>UCL</i>	Upper Control Limit, in % (except for LCSS, mg/Kg)
<i>Sample</i>	Value of the Sample of interest

QC Sample Types

<i>DUP</i>	Sample Duplicate	<i>MS/MSD</i>	Matrix Spike/Matrix Spike Duplicate
<i>LCSS</i>	Laboratory Control Sample - Soil	<i>PBS</i>	Prep Blank - Soil
<i>LCSW</i>	Laboratory Control Sample - Water	<i>PBW</i>	Prep Blank - Water

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Matrix Spikes	Determines sample matrix interferences, if any.

ACZ Qualifiers (Qual)

H	Analysis exceeded method hold time.
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Method Prefix Reference

M	EPA methodology, including those under SDWA, CWA, and RCRA
SM	Standard Methods for the Examination of Water and Wastewater.
D	ASTM
RP	DOE
ESM	DOE/ESM

Comments

- (1) Solid matrices are reported on a dry weight basis.
- (2) Preparation method: "Method" indicates preparation defined in analytical method.
- (3) QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
- (4) An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.

For a complete list of ACZ's Extended Qualifiers, please click:

<https://acz.com/wp-content/uploads/2019/04/Ext-Qual-List.pdf>

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L66054

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Gross Alpha, total M900.0 Units: pCi/L

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG521869																
WG521869PBW	PBW	06/25/21				0.57	0.82	.07	0.57	0.82			1.64			
WG521869LCSWA	LCSW	06/25/21	PCN62436	66.67		5.8	0.85	73	5.8	0.85	110	67	144			
L66101-03DUP	DUP-RER	06/25/21			4.4	2.5	5.9	1.8	2.1	8				0.8	2	
L66101-03DUP	DUP-RPD	06/25/21			4.4	2.5	5.9	1.8	2.1	8				84	20	RG
L66101-03MSA	MS	06/25/21	PCN62436	100	4.4	2.5	5.9	110	11	6.3	106	67	144			

Radium 226, total M903.1 Units: pCi/L

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG520172																
WG520172PBW	PBW	06/08/21				0.12	0.12	.12	0.12	0.12			0.24			
WG520172LCSW	LCSW	06/08/21	PCN62879	20		0.54	0.11	17	0.54	0.11	85	43	148			
L65895-01DUP1	DUP-RER	06/08/21			0.05	0.14	0.19	.12	0.09	0.03				0.42	2	
L65895-01DUP1	DUP-RPD	06/08/21			0.05	0.14	0.19	.12	0.09	0.03				82	20	RG
L65896-01MS	MS	06/08/21	PCN62879	20	0.17	0.1	0.11	17	0.56	0.1	84	43	148			
L65950-03DUP2	DUP-RPD	06/08/21			0.16	0.09	0.1	.05	0.07	0.38				105	20	RG
L65950-03DUP2	DUP-RER	06/08/21			0.16	0.09	0.1	.05	0.07	0.38				0.96	2	

Radium 228, total M904.0 Units: pCi/L

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG520686																
WG520686PBW	PBW	06/17/21				0.82	2.1	-.73	0.82	2.1			4.2			
WG520686LCSW	LCSW	06/17/21	PCN63356	9.74		1.6	3	7.4	1.6	3	76	47	123			
L65897-01DUP	DUP-RER	06/17/21			0.14	1.1	2.6	2	1.2	2.9				1.14	2	
L65897-01DUP	DUP-RPD	06/17/21			0.14	1.1	2.6	2	1.2	2.9				174	20	RG
L66100-01MS	MS	06/17/21	PCN63356	9.74	0.25	0.84	2.2	8.5	1.2	2.2	85	47	123			
L66101-01DUP	DUP-RER	06/17/21			0.86	0.67	1.7	-1	1.2	3				1.35	2	
L66101-01DUP	DUP-RPD	06/17/21			0.86	0.67	1.7	-1	1.2	3				2657	20	RG



Laboratories, Inc.

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

**Radiochemistry QC
Summary**

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L66054**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

U-232

Eichrom ACW03

Units: %

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG520173																
L65957-02MS	MS	06/09/21	RC201222-11		83	130	30	57	130	30						
WG520173PBW	PBW	06/09/21						76	130	30			60			
WG520173LCSW	LCSW	06/09/21	RC201222-11					51	130	30						
L66054-01DUP	DUP-RER	06/12/21			48	130	30	79	130	30					20	
L66054-01DUP	DUP-RPD	06/12/21			48	130	30	79	130	30					20	
L66054-01DUP	DUP-RPD	06/12/21			48	130	30							49	20	
L65869-06DUP	DUP-RPD	06/12/21			75	130	30							1	20	
L65869-06DUP	DUP-RPD	06/12/21			75	130	30	76	130	30					20	
L65869-06DUP	DUP-RER	06/12/21			75	130	30	76	130	30					20	

U-234

Eichrom ACW03

Units: pCi/L

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG520173																
L65957-02MS	MS	06/09/21	RC201222-11	98	0.904	0.99	1.6	106	14	2.1	107	77	122			
WG520173PBW	PBW	06/09/21						-113	0.73	1.6			3.2			
WG520173LCSW	LCSW	06/09/21	RC201222-11	98				97.9	14	2.8	100	77	122			
L66054-01DUP	DUP-RER	06/12/21			11.8	3.2	2.1	15.5	3.1	1.1				0.83	2	
L66054-01DUP	DUP-RPD	06/12/21			11.8	3.2	2.1	15.5	3.1	1.1				27	20	RM
L65869-06DUP	DUP-RER	06/12/21			2.36	1.2	1.3	.612	1.1	1.9				1.07	2	
L65869-06DUP	DUP-RPD	06/12/21			2.36	1.2	1.3	.612	1.1	1.9				118	20	RG

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L66054**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

U-235

Eichrom ACW03

Units: pCi/L

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG520173																
L65957-02MS	MS	06/09/21	RC201222-11	4.48	-0.151	0.62	1.5	5.03	2.2	1.9	116	42	136			
WG520173PBW	PBW	06/09/21						0	6.7	1.5			3			
WG520173LCSW	LCSW	06/09/21	RC201222-11	4.48				6.04	2.4	0.6	135	42	136			
L66054-01DUP	DUP-RPD	06/12/21			0.637	0.84	0.58	.841	0.78	1			28		20	RG
L66054-01DUP	DUP-RER	06/12/21			0.637	0.84	0.58	.841	0.78	1			0.18		2	
L65869-06DUP	DUP-RPD	06/12/21			-0.334	0.6	1.6	-.32	0.79	1.9			4		20	

U-238

Eichrom ACW03

Units: pCi/L

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG520173																
L65957-02MS	MS	06/09/21	RC201222-11	97.5	0.324	0.66	1.2	103	14	3.1	105	87	124			
WG520173PBW	PBW	06/09/21						.232	0.54	1			2			
WG520173LCSW	LCSW	06/09/21	RC201222-11	97.5				97.2	14	1.7	100	87	124			
L66054-01DUP	DUP-RER	06/12/21			5.83	2.3	2.1	10.5	2.4	0.83			1.4		2	
L66054-01DUP	DUP-RPD	06/12/21			5.83	2.3	2.1	10.5	2.4	0.83			57		20	RG
L65869-06DUP	DUP-RPD	06/12/21			0.709	0.74	1.1	.286	0.72	1.4			85		20	RG
L65869-06DUP	DUP-RER	06/12/21			0.709	0.74	1.1	.286	0.72	1.4			0.41		2	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L66054**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L66054-01	WG521869	Gross Alpha, total	M900.0	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
	WG520172	Radium 226, total	M903.1	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
	WG520686	Radium 228, total	M904.0	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
	WG520173	Uranium 234, total	Eichrom ACW03	RM	For a water matrix, the duplicate precision assessment (RPD or RER) exceeded the control limit. High sediment, turbidity, or presence of an immiscible liquid attributed to non-homogeneity of the sample.
		Uranium 235, total	Eichrom ACW03	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
		Uranium 238, total	Eichrom ACW03	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.

Energy Fuels Resources (USA) Inc.ACZ Project ID: **L66054****Radiochemistry****The following parameters are not offered for certification or are not covered by AZ certificate #AZ0102.**

Uranium 234, total	Eichrom ACW03
Uranium 235, total	Eichrom ACW03
Uranium 238, total	Eichrom ACW03

The following parameters are not offered for certification or are not covered by NELAC certificate #ACZ.

Uranium 234, total	Eichrom ACW03
Uranium 235, total	Eichrom ACW03
Uranium 238, total	Eichrom ACW03

Wet Chemistry**The following parameters are not offered for certification or are not covered by AZ certificate #AZ0102.**

Cyanide, Free	D6888-09/OIA-1677-09
---------------	----------------------

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L66054

Date Received: 05/26/2021 12:28

Received By:

Date Printed: 5/27/2021

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody form or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?		X	
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody form complete and accurate?	X		
7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples?	X		
A change was made in the Reprot to: Name and Relinquished by: Date:Time section prior to ACZ custody.			
A change was made in the Reprot to: Name and Relinquished by: Date:Time section prior to ACZ custody.			

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits? ¹	X		
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?	X		

NA indicates Not Applicable

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp (°C)	Temp Criteria (°C)	Rad (µR/Hr)	Custody Seal Intact?
3902	0.1	<=6.0	15	Yes

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L66054

Date Received: 05/26/2021 12:28

Received By:

Date Printed: 5/27/2021

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

¹ The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na₂S₂O₃ preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).



Laboratories, Inc. L 66054

CHAIN of CUSTODY

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Report to:

Name: Kathy Weinel
Company: Energy Fuels
E-mail: Kweinel@energyfuels.com

Address: 225 Union Blvd. Suite 600
Lakewood, Co 80228
Telephone: 303-389-4134

Copy of Report to:

Name:
Company:

E-mail:
Telephone:

Invoice to:

Name: Kathy Weinel
Company: Energy Fuels
E-mail: Kweinel@energyfuels.com

Address: 225 Union Blvd, Suite 600
Lakewood, Co 80228
Telephone: 303-389-4134

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES [X] NO

If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified

Are samples for SDWA Compliance Monitoring? Yes [] No [X]

If yes, please include state forms. Results will be reported to PQL for Colorado.

Sampler's Name: Matt Germansen Sampler's Site Information State AZ Zip code Time Zone

*Sampler's Signature: [Signature] I attest to the authenticity and validity of this sample. I understand that intentionally mislabeling the time/date/location or tampering with the sample in anyway, is considered fraud and punishable by State Law.

PROJECT INFORMATION

ANALYSES REQUESTED (attach list or use quote number)

Quote #: Pinyon Plain GW
PO#: 8046882
Reporting state for compliance testing:
Check box if samples include NRC licensed material?

Table with columns for # of Containers and Matrix. Row 1: 7 see Quote

Table with columns for SAMPLE IDENTIFICATION, DATE:TIME, Matrix. Row 1: PP Well-2021-02, 5/25/21: 1105, GW

Matrix SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS

Normal TAT
All samples Field Filtered when called for

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

Table with columns: RELINQUISHED BY, DATE:TIME, RECEIVED BY, DATE:TIME. Includes signatures and dates.



September 29, 2021

Report to:
Kathy Weinel
Energy Fuels Resources (USA) Inc.
225 Union Blvd. ,Suite 600
Lakewood, CO 80228

Bill to:
Accounts Payable
Energy Fuels Resources (USA) Inc.
225 Union Blvd. ,Suite 600
Lakewood, CO 80228

Project ID:
ACZ Project ID: L67644

Kathy Weinel:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on August 06, 2021. This project has been assigned to ACZ's project number, L67644. Please reference this number in all future inquiries.

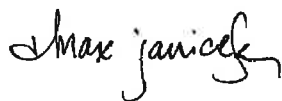
All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L67644. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after October 29, 2021. If the samples are determined to be hazardous, additional charges apply for disposal (typically \$11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.



Max Janicek has reviewed and approved this report.



Energy Fuels Resources (USA) Inc.

Project ID:

Sample ID: PP-WELL-2021-Q3

ACZ Sample ID: **L67644-01**

Date Sampled: 08/05/21 00:00

Date Received: 08/06/21

Sample Matrix: Groundwater

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	08/20/21 14:28	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	<0.0002	U		mg/L	0.0002	0.001	08/20/21 14:28	bsu
Barium, dissolved	M200.7 ICP	1	0.0865			mg/L	0.007	0.035	08/17/21 16:10	kja
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	08/20/21 14:28	bsu
Cadmium, dissolved	M200.8 ICP-MS	1	<0.00005	U		mg/L	0.00005	0.00025	08/20/21 14:28	bsu
Calcium, dissolved	M200.7 ICP	1	42.6			mg/L	0.1	0.5	08/17/21 16:10	kja
Chromium, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	08/17/21 16:10	kja
Lead, dissolved	M200.8 ICP-MS	1	0.00026	B		mg/L	0.0001	0.0005	08/20/21 14:28	bsu
Magnesium, dissolved	M200.7 ICP	1	29.1			mg/L	0.2	1	08/17/21 16:10	kja
Mercury, dissolved	M245.1 CVA	1	<0.0002	U	*	mg/L	0.0002	0.001	08/12/21 13:57	mlh
Nickel, dissolved	M200.7 ICP	1	0.0128	B		mg/L	0.008	0.04	08/17/21 16:10	kja
Potassium, dissolved	M200.7 ICP	1	2.31			mg/L	0.2	1	08/17/21 16:10	kja
Selenium, dissolved	M200.8 ICP-MS	1	0.00474			mg/L	0.0001	0.00025	08/20/21 14:28	bsu
Sodium, dissolved	M200.7 ICP	1	5.76			mg/L	0.2	1	08/17/21 16:10	kja
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	08/20/21 14:28	bsu
Uranium, dissolved	M200.8 ICP-MS	1	0.0143			mg/L	0.0001	0.0005	08/20/21 14:28	bsu

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	211			mg/L	2	20	08/18/21 0:00	eep
Carbonate as CaCO3		1	<2	U		mg/L	2	20	08/18/21 0:00	eep
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	08/18/21 0:00	eep
Total Alkalinity		1	211			mg/L	2	20	08/18/21 0:00	eep
Conductivity @25C	SM2510B	1	420			umhos/cm	1	10	08/16/21 22:05	jck
Fluoride	SM4500F-C	1	0.68		*	mg/L	0.15	0.35	08/24/21 13:10	eep
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	0.094	B		mg/L	0.02	0.1	08/21/21 1:33	pjb
pH (lab)	SM4500H+ B									
pH		1	8.3	H		units	0.1	0.1	08/18/21 0:00	eep
pH measured at		1	22.6			C	0.1	0.1	08/18/21 0:00	eep
Residue, Filterable (TDS) @180C	SM2540C	1	250			mg/L	20	40	08/11/21 17:17	scd
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	1	34.7		*	mg/L	1	5	08/25/21 15:21	wtc

Arizona license number: AZ0102

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L67644**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Alkalinity as CaCO3 SM2320B - Titration

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525448													
WG525448PBW1	PBW	08/17/21 20:44				4.4	mg/L		-20	20			
WG525448LCSW3	LCSW	08/17/21 21:04	WC210806-1	820.0001		804.2	mg/L	98	90	110			
WG525448LCSW6	LCSW	08/17/21 23:56	WC210806-1	820.0001		794.3	mg/L	97	90	110			
WG525448PBW2	PBW	08/18/21 0:03				U	mg/L		-20	20			
L67647-03DUP	DUP	08/18/21 2:30			107	121	mg/L				12	20	
WG525448LCSW9	LCSW	08/18/21 3:28	WC210806-1	820.0001		811.8	mg/L	99	90	110			
WG525448PBW3	PBW	08/18/21 3:35				U	mg/L		-20	20			
WG525448LCSW12	LCSW	08/18/21 7:04	WC210806-1	820.0001		819.4	mg/L	100	90	110			
WG525448PBW4	PBW	08/18/21 7:11				U	mg/L		-20	20			
WG525448LCSW15	LCSW	08/18/21 10:02	WC210806-1	820.0001		804.8	mg/L	98	90	110			

Antimony, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525689													
WG525689ICV	ICV	08/20/21 14:17	MS210727-2	.0201		.01893	mg/L	94	90	110			
WG525689ICB	ICB	08/20/21 14:19				U	mg/L		-0.00088	0.00088			
WG525689LFB	LFB	08/20/21 14:21	MS210727-5	.01		.01049	mg/L	105	85	115			
L67677-01AS	AS	08/20/21 14:32	MS210727-5	.01	U	.0082	mg/L	82	70	130			
L67677-01ASD	ASD	08/20/21 14:33	MS210727-5	.01	U	.00974	mg/L	97	70	130	17	20	

Antimony, total recoverable M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525596													
WG525596ICV	ICV	08/19/21 13:17	MS210727-2	.0201		.01996	mg/L	99	90	110			
WG525596ICB	ICB	08/19/21 13:19				U	mg/L		-0.0012	0.0012			
WG525456LRB	LRB	08/19/21 13:21				U	mg/L		-0.00088	0.00088			
WG525456LFB	LFB	08/19/21 13:23	MS210727-5	.01		.01047	mg/L	105	85	115			
L67753-01LFM	LFM	08/19/21 13:32	MS210727-5	.01	U	.01055	mg/L	106	70	130			
L67753-01LFMD	LFMD	08/19/21 13:34	MS210727-5	.01	U	.01033	mg/L	103	70	130	2	20	

Arsenic, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525689													
WG525689ICV	ICV	08/20/21 14:17	MS210727-2	.05		.05136	mg/L	103	90	110			
WG525689ICB	ICB	08/20/21 14:19				U	mg/L		-0.00044	0.00044			
WG525689LFB	LFB	08/20/21 14:21	MS210727-5	.05005		.05224	mg/L	104	85	115			
L67677-01AS	AS	08/20/21 14:32	MS210727-5	.05005	U	.04925	mg/L	98	70	130			
L67677-01ASD	ASD	08/20/21 14:33	MS210727-5	.05005	U	.05474	mg/L	109	70	130	11	20	

Arsenic, total recoverable M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525596													
WG525596ICV	ICV	08/19/21 13:17	MS210727-2	.05		.05091	mg/L	102	90	110			
WG525596ICB	ICB	08/19/21 13:19				U	mg/L		-0.0006	0.0006			
WG525456LRB	LRB	08/19/21 13:21				U	mg/L		-0.00044	0.00044			
WG525456LFB	LFB	08/19/21 13:23	MS210727-5	.05005		.04767	mg/L	95	85	115			
L67753-01LFM	LFM	08/19/21 13:32	MS210727-5	.05005	.00097	.04685	mg/L	92	70	130			
L67753-01LFMD	LFMD	08/19/21 13:34	MS210727-5	.05005	.00097	.04633	mg/L	91	70	130	1	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L67644**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Barium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525425													
WG525425ICV	ICV	08/17/21 15:48	II210803-4	2		2.03	mg/L	102	95	105			
WG525425ICB	ICB	08/17/21 15:54				U	mg/L		-0.021	0.021			
WG525425LFB	LFB	08/17/21 16:06	II210810-2	.5		.5047	mg/L	101	85	115			
L67781-01AS	AS	08/17/21 16:16	II210810-2	.5	.039	.5368	mg/L	100	85	115			
L67781-01ASD	ASD	08/17/21 16:19	II210810-2	.5	.039	.5418	mg/L	101	85	115	1	20	

Barium, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525473													
WG525473ICV	ICV	08/18/21 9:38	II210803-4	2		1.9972	mg/L	100	95	105			
WG525473ICB	ICB	08/18/21 9:44				U	mg/L		-0.021	0.021			
WG525376LRB	LRB	08/18/21 9:56				U	mg/L		-0.0154	0.0154			
WG525376LFB	LFB	08/18/21 9:59	II210810-2	.5		.4842	mg/L	97	85	115			
L67644-03LFM	LFM	08/18/21 10:45	II210810-2	.5	.0256	.5175	mg/L	98	70	130			
L67644-03LFMD	LFMD	08/18/21 10:48	II210810-2	.5	.0256	.5226	mg/L	99	70	130	1	20	
L67740-05LFM	LFM	08/18/21 11:16	II210810-2	.5	.105	.621	mg/L	103	70	130			
L67740-05LFMD	LFMD	08/18/21 11:19	II210810-2	.5	.105	.6222	mg/L	103	70	130	0	20	

Beryllium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525689													
WG525689ICV	ICV	08/20/21 14:17	MS210727-2	.05		.051494	mg/L	103	90	110			
WG525689ICB	ICB	08/20/21 14:19				U	mg/L		-0.000176	0.000176			
WG525689LFB	LFB	08/20/21 14:21	MS210727-5	.05005		.051897	mg/L	104	85	115			
L67677-01AS	AS	08/20/21 14:32	MS210727-5	.05005	U	.049927	mg/L	100	70	130			
L67677-01ASD	ASD	08/20/21 14:33	MS210727-5	.05005	U	.054683	mg/L	109	70	130	9	20	

Beryllium, total recoverable

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525596													
WG525596ICV	ICV	08/19/21 13:17	MS210727-2	.05		.054695	mg/L	109	90	110			
WG525596ICB	ICB	08/19/21 13:19				U	mg/L		-0.00024	0.00024			
WG525456LRB	LRB	08/19/21 13:21				U	mg/L		-0.000176	0.000176			
WG525456LFB	LFB	08/19/21 13:23	MS210727-5	.05005		.049977	mg/L	100	85	115			
L67753-01LFM	LFM	08/19/21 13:32	MS210727-5	.05005	.000106	.045569	mg/L	91	70	130			
L67753-01LFMD	LFMD	08/19/21 13:34	MS210727-5	.05005	.000106	.044978	mg/L	90	70	130	1	20	

Cadmium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525689													
WG525689ICV	ICV	08/20/21 14:17	MS210727-2	.05		.052446	mg/L	105	90	110			
WG525689ICB	ICB	08/20/21 14:19				U	mg/L		-0.00011	0.00011			
WG525689LFB	LFB	08/20/21 14:21	MS210727-5	.05005		.052301	mg/L	104	85	115			
L67677-01AS	AS	08/20/21 14:32	MS210727-5	.05005	U	.048608	mg/L	97	70	130			
L67677-01ASD	ASD	08/20/21 14:33	MS210727-5	.05005	U	.054041	mg/L	108	70	130	11	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L67644**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Cadmium, total recoverable M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525596													
WG525596ICV	ICV	08/19/21 13:17	MS210727-2	.05		.054012	mg/L	108	90	110			
WG525596ICB	ICB	08/19/21 13:19				U	mg/L		-0.00015	0.00015			
WG525456LRB	LRB	08/19/21 13:21				U	mg/L		-0.00011	0.00011			
WG525456LFB	LFB	08/19/21 13:23	MS210727-5	.05005		.049326	mg/L	99	85	115			
L67753-01LFM	LFM	08/19/21 13:32	MS210727-5	.05005	.000088	.047583	mg/L	95	70	130			
L67753-01LFMD	LFMD	08/19/21 13:34	MS210727-5	.05005	.000088	.046989	mg/L	94	70	130	1	20	

Calcium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525425													
WG525425ICV	ICV	08/17/21 15:48	II210803-4	100		100.08	mg/L	100	95	105			
WG525425ICB	ICB	08/17/21 15:54				U	mg/L		-0.3	0.3			
WG525425LFB	LFB	08/17/21 16:06	II210810-2	67.99734		71.1	mg/L	105	85	115			
L67781-01AS	AS	08/17/21 16:16	II210810-2	67.99734	44.9	113.4	mg/L	101	85	115			
L67781-01ASD	ASD	08/17/21 16:19	II210810-2	67.99734	44.9	114	mg/L	102	85	115	1	20	

Calcium, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525473													
WG525473ICV	ICV	08/18/21 9:38	II210803-4	100		98.04	mg/L	98	95	105			
WG525473ICB	ICB	08/18/21 9:44				U	mg/L		-0.3	0.3			
WG525376LRB	LRB	08/18/21 9:56				U	mg/L		-0.22	0.22			
WG525376LFB	LFB	08/18/21 9:59	II210810-2	67.99734		66.28	mg/L	97	85	115			
L67644-03LFM	LFM	08/18/21 10:45	II210810-2	67.99734	109	172.8	mg/L	94	70	130			
L67644-03LFMD	LFMD	08/18/21 10:48	II210810-2	67.99734	109	173.9	mg/L	95	70	130	1	20	
L67740-05LFM	LFM	08/18/21 11:16	II210810-2	67.99734	76.1	143.5	mg/L	99	70	130			
L67740-05LFMD	LFMD	08/18/21 11:19	II210810-2	67.99734	76.1	142.9	mg/L	98	70	130	0	20	

Chromium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525425													
WG525425ICV	ICV	08/17/21 15:48	II210803-4	2		2.006	mg/L	100	95	105			
WG525425ICB	ICB	08/17/21 15:54				U	mg/L		-0.06	0.06			
WG525425LFB	LFB	08/17/21 16:06	II210810-2	.502		.514	mg/L	102	85	115			
L67781-01AS	AS	08/17/21 16:16	II210810-2	.502	U	.516	mg/L	103	85	115			
L67781-01ASD	ASD	08/17/21 16:19	II210810-2	.502	U	.521	mg/L	104	85	115	1	20	

Chromium, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525473													
WG525473ICV	ICV	08/18/21 9:38	II210803-4	2		1.997	mg/L	100	95	105			
WG525473ICB	ICB	08/18/21 9:44				U	mg/L		-0.06	0.06			
WG525376LRB	LRB	08/18/21 9:56				U	mg/L		-0.044	0.044			
WG525376LFB	LFB	08/18/21 9:59	II210810-2	.502		.512	mg/L	102	85	115			
L67644-03LFM	LFM	08/18/21 10:45	II210810-2	.502	U	.513	mg/L	102	70	130			
L67644-03LFMD	LFMD	08/18/21 10:48	II210810-2	.502	U	.515	mg/L	103	70	130	0	20	
L67740-05LFM	LFM	08/18/21 11:16	II210810-2	.502	U	.541	mg/L	108	70	130			
L67740-05LFMD	LFMD	08/18/21 11:19	II210810-2	.502	U	.543	mg/L	108	70	130	0	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L67644**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Conductivity @25C

SM2510B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525366													
WG525366LCSW2	LCSW	08/16/21 20:55	PCN62852	1410		1367	umhos/cm	97	90	110			
L67647-02DUP	DUP	08/16/21 22:42			252	252	umhos/cm				0	20	
WG525366LCSW5	LCSW	08/17/21 0:46	PCN62852	1410		1360	umhos/cm	96	90	110			
WG525366LCSW8	LCSW	08/17/21 3:56	PCN62852	1410		1353	umhos/cm	96	90	110			
WG525366LCSW11	LCSW	08/17/21 6:53	PCN62852	1410		1342	umhos/cm	95	90	110			
WG525366LCSW14	LCSW	08/17/21 10:46	PCN62852	1410		1339	umhos/cm	95	90	110			

Copper, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525473													
WG525473ICV	ICV	08/18/21 9:38	II210803-4	2		1.925	mg/L	96	95	105			
WG525473ICB	ICB	08/18/21 9:44				U	mg/L		-0.03	0.03			
WG525376LRB	LRB	08/18/21 9:56				U	mg/L		-0.022	0.022			
WG525376LFB	LFB	08/18/21 9:59	II210810-2	.5		.481	mg/L	96	85	115			
L67644-03LFM	LFM	08/18/21 10:45	II210810-2	.5	.016	.503	mg/L	97	70	130			
L67644-03LFMD	LFMD	08/18/21 10:48	II210810-2	.5	.016	.506	mg/L	98	70	130	1	20	
L67740-05LFM	LFM	08/18/21 11:16	II210810-2	.5	U	.511	mg/L	102	70	130			
L67740-05LFMD	LFMD	08/18/21 11:19	II210810-2	.5	U	.513	mg/L	103	70	130	0	20	

Fluoride

SM4500F-C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525837													
WG525837ICV	ICV	08/24/21 12:50	WC210819-7	2.002		2.19	mg/L	109	90	110			
WG525837ICB	ICB	08/24/21 12:54				U	mg/L		-0.3	0.3			
WG525837LFB1	LFB	08/24/21 13:02	WC210803-9	5.02		5.43	mg/L	108	90	110			
L67719-02AS	AS	08/24/21 13:45	WC210803-9	5.02	U	5.48	mg/L	109	90	110			
L67719-02ASD	ASD	08/24/21 13:53	WC210803-9	5.02	U	5.56	mg/L	111	90	110	1	20	MA
WG525837LFB3	LFB	08/24/21 16:47	WC210803-9	5.02		5.12	mg/L	102	90	110			

Iron, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525473													
WG525473ICV	ICV	08/18/21 9:38	II210803-4	2		1.952	mg/L	98	95	105			
WG525473ICB	ICB	08/18/21 9:44				U	mg/L		-0.18	0.18			
WG525376LRB	LRB	08/18/21 9:56				U	mg/L		-0.132	0.132			
WG525376LFB	LFB	08/18/21 9:59	II210810-2	1.0001		.978	mg/L	98	85	115			
L67644-03LFM	LFM	08/18/21 10:45	II210810-2	1.0001	.458	1.439	mg/L	98	70	130			
L67644-03LFMD	LFMD	08/18/21 10:48	II210810-2	1.0001	.458	1.439	mg/L	98	70	130	0	20	
L67740-05LFM	LFM	08/18/21 11:16	II210810-2	1.0001	1.97	2.974	mg/L	109	70	130			
L67740-05LFMD	LFMD	08/18/21 11:19	II210810-2	1.0001	1.97	2.921	mg/L	104	70	130	2	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L67644**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Lead, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525689													
WG525689ICV	ICV	08/20/21 14:17	MS210727-2	.05		.05092	mg/L	102	90	110			
WG525689ICB	ICB	08/20/21 14:19				U	mg/L		-0.00022	0.00022			
WG525689LFB	LFB	08/20/21 14:21	MS210727-5	.05005		.05223	mg/L	104	85	115			
L67677-01AS	AS	08/20/21 14:32	MS210727-5	.05005	U	.04842	mg/L	97	70	130			
L67677-01ASD	ASD	08/20/21 14:33	MS210727-5	.05005	U	.05342	mg/L	107	70	130	10	20	

Lead, total recoverable

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525596													
WG525596ICV	ICV	08/19/21 13:17	MS210727-2	.05		.05473	mg/L	109	90	110			
WG525596ICB	ICB	08/19/21 13:19				U	mg/L		-0.0003	0.0003			
WG525456LRB	LRB	08/19/21 13:21				U	mg/L		-0.00022	0.00022			
WG525456LFB	LFB	08/19/21 13:23	MS210727-5	.05005		.04749	mg/L	95	85	115			
L67753-01LFM	LFM	08/19/21 13:32	MS210727-5	.05005	.00087	.04901	mg/L	96	70	130			
L67753-01LFMD	LFMD	08/19/21 13:34	MS210727-5	.05005	.00087	.04925	mg/L	97	70	130	0	20	

Magnesium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525425													
WG525425ICV	ICV	08/17/21 15:48	II210803-4	100		96.9	mg/L	97	95	105			
WG525425ICB	ICB	08/17/21 15:54				U	mg/L		-0.6	0.6			
WG525425LFB	LFB	08/17/21 16:06	II210810-2	50.00074		49.86	mg/L	100	85	115			
L67781-01AS	AS	08/17/21 16:16	II210810-2	50.00074	10	59.08	mg/L	98	85	115			
L67781-01ASD	ASD	08/17/21 16:19	II210810-2	50.00074	10	59.46	mg/L	99	85	115	1	20	

Magnesium, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525473													
WG525473ICV	ICV	08/18/21 9:38	II210803-4	100		94.79	mg/L	95	95	105			
WG525473ICB	ICB	08/18/21 9:44				U	mg/L		-0.6	0.6			
WG525376LRB	LRB	08/18/21 9:56				U	mg/L		-0.44	0.44			
WG525376LFB	LFB	08/18/21 9:59	II210810-2	50.00074		46.42	mg/L	93	85	115			
L67644-03LFM	LFM	08/18/21 10:45	II210810-2	50.00074	60.6	106.5	mg/L	92	70	130			
L67644-03LFMD	LFMD	08/18/21 10:48	II210810-2	50.00074	60.6	107	mg/L	93	70	130	0	20	
L67740-05LFM	LFM	08/18/21 11:16	II210810-2	50.00074	14.4	61.98	mg/L	95	70	130			
L67740-05LFMD	LFMD	08/18/21 11:19	II210810-2	50.00074	14.4	61.93	mg/L	95	70	130	0	20	

Manganese, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525473													
WG525473ICV	ICV	08/18/21 9:38	II210803-4	2		1.928	mg/L	96	95	105			
WG525473ICB	ICB	08/18/21 9:44				U	mg/L		-0.03	0.03			
WG525376LRB	LRB	08/18/21 9:56				U	mg/L		-0.022	0.022			
WG525376LFB	LFB	08/18/21 9:59	II210810-2	.5005		.484	mg/L	97	85	115			
L67644-03LFM	LFM	08/18/21 10:45	II210810-2	.5005	.027	.508	mg/L	96	70	130			
L67644-03LFMD	LFMD	08/18/21 10:48	II210810-2	.5005	.027	.514	mg/L	97	70	130	1	20	
L67740-05LFM	LFM	08/18/21 11:16	II210810-2	.5005	.108	.611	mg/L	100	70	130			
L67740-05LFMD	LFMD	08/18/21 11:19	II210810-2	.5005	.108	.61	mg/L	100	70	130	0	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L67644**

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Mercury, dissolved

M245.1 CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525142													
WG525142ICV	ICV	08/12/21 13:06	HG210805-3	.00501		.00491	mg/L	98	95	105			
WG525142ICB	ICB	08/12/21 13:07				U	mg/L		-0.0002	0.0002			
WG525143													
WG525143LRB	LRB	08/12/21 13:42				U	mg/L		-0.00044	0.00044			
WG525143LFB	LFB	08/12/21 13:43	HG210805-6	.002002		.00177	mg/L	88	85	115			
L67644-01LFM	LFM	08/12/21 13:58	HG210805-6	.002002	U	.00164	mg/L	82	85	115			M2
L67644-01LFMD	LFMD	08/12/21 13:59	HG210805-6	.002002	U	.00162	mg/L	81	85	115	1	20	M2

Mercury, total

M245.1 CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525142													
WG525142ICV	ICV	08/12/21 13:06	HG210805-3	.00501		.00491	mg/L	98	95	105			
WG525142ICB	ICB	08/12/21 13:07				U	mg/L		-0.0002	0.0002			
WG525142LRB	LRB	08/12/21 13:08				U	mg/L		-0.00044	0.00044			
WG525142LFB	LFB	08/12/21 13:09	HG210805-6	.002002		.0019	mg/L	95	85	115			
L67736-03LFM	LFM	08/12/21 13:35	HG210805-6	.002002	U	.00169	mg/L	84	85	115			MA
L67736-03LFMD	LFMD	08/12/21 13:36	HG210805-6	.002002	U	.00176	mg/L	88	85	115	4	20	

Nickel, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525425													
WG525425ICV	ICV	08/17/21 15:48	II210803-4	2		1.9498	mg/L	97	95	105			
WG525425ICB	ICB	08/17/21 15:54				U	mg/L		-0.024	0.024			
WG525425LFB	LFB	08/17/21 16:06	II210810-2	.5		.4985	mg/L	100	85	115			
L67781-01AS	AS	08/17/21 16:16	II210810-2	.5	U	.5021	mg/L	100	85	115			
L67781-01ASD	ASD	08/17/21 16:19	II210810-2	.5	U	.5039	mg/L	101	85	115	0	20	

Nickel, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525473													
WG525473ICV	ICV	08/18/21 9:38	II210803-4	2		1.9142	mg/L	96	95	105			
WG525473ICB	ICB	08/18/21 9:44				U	mg/L		-0.024	0.024			
WG525376LRB	LRB	08/18/21 9:56				U	mg/L		-0.0176	0.0176			
WG525376LFB	LFB	08/18/21 9:59	II210810-2	.5		.4758	mg/L	95	85	115			
L67644-03LFM	LFM	08/18/21 10:45	II210810-2	.5	.496	.9524	mg/L	91	70	130			
L67644-03LFMD	LFMD	08/18/21 10:48	II210810-2	.5	.496	.9512	mg/L	91	70	130	0	20	
L67740-05LFM	LFM	08/18/21 11:16	II210810-2	.5	U	.4829	mg/L	97	70	130			
L67740-05LFMD	LFMD	08/18/21 11:19	II210810-2	.5	U	.4816	mg/L	96	70	130	0	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L67644**

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Nitrate/Nitrite as N M353.2 - H2SO4 preserved

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525713													
WG525713ICV	ICV	08/21/21 0:10	WI210603-7	2.416		2.308	mg/L	96	90	110			
WG525713ICB	ICB	08/21/21 0:11				U	mg/L		-0.02	0.02			
WG525716													
WG525716LFB	LFB	08/21/21 1:26	WI210331-13	2		2.015	mg/L	101	90	110			
L67612-01AS	AS	08/21/21 1:28	WI210331-13	2	1.37	3.268	mg/L	95	90	110			
L67613-01DUP	DUP	08/21/21 1:31			3.72	3.742	mg/L				1	20	

pH (lab) SM4500H+ B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525448													
WG525448LCSW1	LCSW	08/17/21 20:48	PCN62948	6		6	units	100	5.9	6.1			
WG525448LCSW4	LCSW	08/17/21 23:43	PCN62948	6		6.1	units	102	5.9	6.1			
L67647-03DUP	DUP	08/18/21 2:30			8.4	8.4	units				0	20	
WG525448LCSW7	LCSW	08/18/21 3:14	PCN62948	6		6.1	units	102	5.9	6.1			
WG525448LCSW10	LCSW	08/18/21 6:49	PCN62948	6		6.1	units	102	5.9	6.1			
WG525448LCSW13	LCSW	08/18/21 9:48	PCN62948	6		6.1	units	102	5.9	6.1			

Potassium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525425													
WG525425ICV	ICV	08/17/21 15:48	II210803-4	20		19.9	mg/L	100	95	105			
WG525425ICB	ICB	08/17/21 15:54				U	mg/L		-0.6	0.6			
WG525425LFB	LFB	08/17/21 16:06	II210810-2	99.99574		102	mg/L	102	85	115			
L67781-01AS	AS	08/17/21 16:16	II210810-2	99.99574	13.4	114.2	mg/L	101	85	115			
L67781-01ASD	ASD	08/17/21 16:19	II210810-2	99.99574	13.4	114.7	mg/L	101	85	115	0	20	

Potassium, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525473													
WG525473ICV	ICV	08/18/21 9:38	II210803-4	20		19.45	mg/L	97	95	105			
WG525473ICB	ICB	08/18/21 9:44				U	mg/L		-0.6	0.6			
WG525376LRB	LRB	08/18/21 9:56				U	mg/L		-0.44	0.44			
WG525376LFB	LFB	08/18/21 9:59	II210810-2	99.99574		95.14	mg/L	95	85	115			
L67644-03LFM	LFM	08/18/21 10:45	II210810-2	99.99574	6.41	103.9	mg/L	97	70	130			
L67644-03LFMD	LFMD	08/18/21 10:48	II210810-2	99.99574	6.41	104.7	mg/L	98	70	130	1	20	
L67740-05LFM	LFM	08/18/21 11:16	II210810-2	99.99574	2.78	103.9	mg/L	101	70	130			
L67740-05LFMD	LFMD	08/18/21 11:19	II210810-2	99.99574	2.78	104.4	mg/L	102	70	130	0	20	

Residue, Filterable (TDS) @180C SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525132													
WG525132PBW	PBW	08/11/21 17:00				U	mg/L		-20	20			
WG525132LCSW	LCSW	08/11/21 17:01	PCN63560	1000		996	mg/L	100	80	120			
L67644-03DUP	DUP	08/11/21 17:20			756	758	mg/L				0	10	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L67644**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Selenium, dissolved		M200.8 ICP-MS											
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525689													
WG525689ICV	ICV	08/20/21 14:17	MS210727-2	.05		.05129	mg/L	103	90	110			
WG525689ICB	ICB	08/20/21 14:19				U	mg/L		-0.00022	0.00022			
WG525689LFB	LFB	08/20/21 14:21	MS210727-5	.05		.05159	mg/L	103	85	115			
L67677-01AS	AS	08/20/21 14:32	MS210727-5	.05	U	.04965	mg/L	99	70	130			
L67677-01ASD	ASD	08/20/21 14:33	MS210727-5	.05	U	.05532	mg/L	111	70	130	11	20	

Selenium, total recoverable		M200.8 ICP-MS											
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525866													
WG525866ICV	ICV	08/24/21 17:58	MS210727-2	.05		.05203	mg/L	104	90	110			
WG525866ICB	ICB	08/24/21 18:00				U	mg/L		-0.0003	0.0003			
WG525456LRB	LRB	08/24/21 18:02				U	mg/L		-0.00022	0.00022			
WG525456LFB	LFB	08/24/21 18:04	MS210727-5	.05		.04548	mg/L	91	85	115			
L67753-01LFM	LFM	08/24/21 18:11	MS210727-5	.05	.00174	.04656	mg/L	90	70	130			
L67753-01LFMD	LFMD	08/24/21 18:13	MS210727-5	.05	.00174	.04621	mg/L	89	70	130	1	20	

Sodium, dissolved		M200.7 ICP											
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525425													
WG525425ICV	ICV	08/17/21 15:48	II210803-4	100		100.52	mg/L	101	95	105			
WG525425ICB	ICB	08/17/21 15:54				U	mg/L		-0.6	0.6			
WG525425LFB	LFB	08/17/21 16:06	II210810-2	100.0109		102.8	mg/L	103	85	115			
L67781-01AS	AS	08/17/21 16:16	II210810-2	100.0109	77	174.3	mg/L	97	85	115			
L67781-01ASD	ASD	08/17/21 16:19	II210810-2	100.0109	77	178.1	mg/L	101	85	115	2	20	

Sodium, total recoverable		M200.7 ICP											
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525473													
WG525473ICV	ICV	08/18/21 9:38	II210803-4	100		98.75	mg/L	99	95	105			
WG525473ICB	ICB	08/18/21 9:44				U	mg/L		-0.6	0.6			
WG525376LRB	LRB	08/18/21 9:56				U	mg/L		-0.44	0.44			
WG525376LFB	LFB	08/18/21 9:59	II210810-2	100.0109		97.04	mg/L	97	85	115			
L67644-03LFM	LFM	08/18/21 10:45	II210810-2	100.0109	25.8	125.1	mg/L	99	70	130			
L67644-03LFMD	LFMD	08/18/21 10:48	II210810-2	100.0109	25.8	126.4	mg/L	101	70	130	1	20	
L67740-05LFM	LFM	08/18/21 11:16	II210810-2	100.0109	7.57	111.3	mg/L	104	70	130			
L67740-05LFMD	LFMD	08/18/21 11:19	II210810-2	100.0109	7.57	111.4	mg/L	104	70	130	0	20	

Sulfate		D516-02/-07/-11 - TURBIDIMETRIC											
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525939													
WG525939ICB	ICB	08/25/21 9:43				U	mg/L		-3	3			
WG525939ICV	ICV	08/25/21 9:43	WI210818-1	20.46		20.3	mg/L	99	90	110			
WG525939LFB	LFB	08/25/21 15:21	WI210105-3	10		10.8	mg/L	108	90	110			
L67573-01AS	AS	08/26/21 8:36	SO4TURB80X	1000	2850	2769.6	mg/L	-8	90	110			M3
L67570-04DUP	DUP	08/26/21 9:57			2.1	U	mg/L				200	20	RA

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L67644**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Thallium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525689													
WG525689ICV	ICV	08/20/21 14:17	MS210727-2	.05		.05197	mg/L	104	90	110			
WG525689ICB	ICB	08/20/21 14:19				U	mg/L		-0.00022	0.00022			
WG525689LFB	LFB	08/20/21 14:21	MS210727-5	.05		.0524	mg/L	105	85	115			
L67677-01AS	AS	08/20/21 14:32	MS210727-5	.05	U	.04864	mg/L	97	70	130			
L67677-01ASD	ASD	08/20/21 14:33	MS210727-5	.05	U	.05381	mg/L	108	70	130	10	20	

Thallium, total recoverable

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525596													
WG525596ICV	ICV	08/19/21 13:17	MS210727-2	.05		.05345	mg/L	107	90	110			
WG525596ICB	ICB	08/19/21 13:19				U	mg/L		-0.0003	0.0003			
WG525456LRB	LRB	08/19/21 13:21				U	mg/L		-0.00022	0.00022			
WG525456LFB	LFB	08/19/21 13:23	MS210727-5	.05		.04524	mg/L	90	85	115			
L67753-01LFM	LFM	08/19/21 13:32	MS210727-5	.05	U	.04687	mg/L	94	70	130			
L67753-01LFMD	LFMD	08/19/21 13:34	MS210727-5	.05	U	.04713	mg/L	94	70	130	1	20	

Uranium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525689													
WG525689ICV	ICV	08/20/21 14:17	MS210727-2	.05		.05093	mg/L	102	90	110			
WG525689ICB	ICB	08/20/21 14:19				U	mg/L		-0.00022	0.00022			
WG525689LFB	LFB	08/20/21 14:21	MS210727-5	.05		.05199	mg/L	104	85	115			
L67677-01AS	AS	08/20/21 14:32	MS210727-5	.05	.00024	.04859	mg/L	97	70	130			
L67677-01ASD	ASD	08/20/21 14:33	MS210727-5	.05	.00024	.05345	mg/L	106	70	130	10	20	

Uranium, total recoverable

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525596													
WG525596ICV	ICV	08/19/21 13:17	MS210727-2	.05		.05341	mg/L	107	90	110			
WG525596ICB	ICB	08/19/21 13:19				U	mg/L		-0.0003	0.0003			
WG525456LRB	LRB	08/19/21 13:21				U	mg/L		-0.00022	0.00022			
WG525456LFB	LFB	08/19/21 13:23	MS210727-5	.05		.04584	mg/L	92	85	115			
L67753-01LFM	LFM	08/19/21 13:32	MS210727-5	.05	.00324	.05276	mg/L	99	70	130			
L67753-01LFMD	LFMD	08/19/21 13:34	MS210727-5	.05	.00324	.05273	mg/L	99	70	130	0	20	

Vanadium, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525499													
WG525499ICV	ICV	08/18/21 15:13	II210803-4	2		1.965	mg/L	98	95	105			
WG525499ICB	ICB	08/18/21 15:19				U	mg/L		-0.015	0.015			
WG525376LRB	LRB	08/18/21 15:32				U	mg/L		-0.022	0.022			
WG525376LFB	LFB	08/18/21 15:35	II210810-2	.5005		.4906	mg/L	98	85	115			
L67644-03LFM	LFM	08/18/21 15:45	II210810-2	.5005	U	.4924	mg/L	98	70	130			
L67644-03LFMD	LFMD	08/18/21 15:48	II210810-2	.5005	U	.49	mg/L	98	70	130	0	20	
L67740-05LFM	LFM	08/18/21 15:54	II210810-2	.5005	U	.497	mg/L	99	70	130			
L67740-05LFMD	LFMD	08/18/21 15:57	II210810-2	.5005	U	.49	mg/L	98	70	130	1	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L67644**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Zinc, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525473													
WG525473ICV	ICV	08/18/21 9:38	II210803-4	2		1.95	mg/L	98	95	105			
WG525473ICB	ICB	08/18/21 9:44				U	mg/L		-0.06	0.06			
WG525376LRB	LRB	08/18/21 9:56				U	mg/L		-0.044	0.044			
WG525376LFB	LFB	08/18/21 9:59	II210810-2	.50045		.514	mg/L	103	85	115			
L67644-03LFM	LFM	08/18/21 10:45	II210810-2	.50045	.925	1.445	mg/L	104	70	130			
L67644-03LFMD	LFMD	08/18/21 10:48	II210810-2	.50045	.925	1.457	mg/L	106	70	130	1	20	
L67740-05LFM	LFM	08/18/21 11:16	II210810-2	.50045	.037	.589	mg/L	110	70	130			
L67740-05LFMD	LFMD	08/18/21 11:19	II210810-2	.50045	.037	.584	mg/L	109	70	130	1	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L67644**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L67644-01	WG525837	Fluoride	SM4500F-C	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
	WG525143	Mercury, dissolved	M245.1 CVAA	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG525939	Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
			D516-02/-07/-11 - TURBIDIMETRIC	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
L67644-02	WG525142	Mercury, total	M245.1 CVAA	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
L67644-03	WG525837	Fluoride	SM4500F-C	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
	WG525142	Mercury, total	M245.1 CVAA	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
	WG525939	Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
			D516-02/-07/-11 - TURBIDIMETRIC	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).

Energy Fuels Resources (USA) Inc.

Project ID:

Sample ID: PP-WELL-2021-Q3

Locator:

ACZ Sample ID: **L67644-01**

Date Sampled: 08/05/21 0:00

Date Received: 08/06/21

Sample Matrix: Groundwater

Combined Radium (total)

Prep Method:

Calculation (RA226 + RA228)

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Combined Radium (total)	09/29/21 13:50		2.0			pCi/L		calc

Gross Alpha Total, corrected

Prep Method:

Calculation

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Gross Alpha Total, corrected	09/29/21 13:50		8.6			pCi/L		calc

Gross Alpha, total

Prep Method:

M900.0

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Gross Alpha, total	08/12/21 0:30		24	5.1	5.8	pCi/L		ess

Radium 226, total

Prep Method:

M903.1

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 226, total	09/17/21 0:10		2	0.17	0.02	pCi/L		djc

Radium 228, total

Prep Method:

M904.0

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 228, total	08/30/21 20:41		1.1	1.4	3.5	pCi/L	*	ess

Uranium, Isotopic Total

Prep Method:

Eichrom ACW03

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Uranium 234, total	09/24/21 15:58		9.81	2.5	1.8	pCi/L	*	amk
Uranium 235, total	09/24/21 15:58		0.992	0.79	0.38	pCi/L	*	amk
Uranium 238, total	09/24/21 15:58		4.62	1.7	1.5	pCi/L	*	amk

Arizona license number: **AZ0102**

Report Header Explanations

<i>Batch</i>	A distinct set of samples analyzed at a specific time
<i>Error(+/-)</i>	Calculated sample specific uncertainty
<i>Found</i>	Value of the QC Type of interest
<i>Limit</i>	Upper limit for RPD, in %.
<i>LCL</i>	Lower Control Limit, in % (except for LCSS, mg/Kg)
<i>LLD</i>	Calculated sample specific Lower Limit of Detection
<i>PCN/SCN</i>	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
<i>PQL</i>	Practical Quantitation Limit
<i>QC</i>	True Value of the Control Sample or the amount added to the Spike
<i>Rec</i>	Amount of the true value or spike added recovered, in % (except for LCSS, mg/Kg)
<i>RER</i>	Relative Error Ratio, calculation used for Dup. QC taking into account the error factor.
<i>RPD</i>	Relative Percent Difference, calculation used for Duplicate QC Types
<i>UCL</i>	Upper Control Limit, in % (except for LCSS, mg/Kg)
<i>Sample</i>	Value of the Sample of interest

QC Sample Types

<i>DUP</i>	Sample Duplicate	<i>MS/MSD</i>	Matrix Spike/Matrix Spike Duplicate
<i>LCSS</i>	Laboratory Control Sample - Soil	<i>PBS</i>	Prep Blank - Soil
<i>LCSW</i>	Laboratory Control Sample - Water	<i>PBW</i>	Prep Blank - Water

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Matrix Spikes	Determines sample matrix interferences, if any.

ACZ Qualifiers (Qual)

H	Analysis exceeded method hold time.
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Method Prefix Reference

M	EPA methodology, including those under SDWA, CWA, and RCRA
SM	Standard Methods for the Examination of Water and Wastewater.
D	ASTM
RP	DOE
ESM	DOE/ESM

Comments

- (1) Solid matrices are reported on a dry weight basis.
- (2) Preparation method: "Method" indicates preparation defined in analytical method.
- (3) QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
- (4) An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.

For a complete list of ACZ's Extended Qualifiers, please click:

<https://acz.com/wp-content/uploads/2019/04/Ext-Qual-List.pdf>



Energy Fuels Resources (USA) Inc.

ACZ Project ID: L67644

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Gross Alpha, total

M900.0

Units: pCi/L

Table with columns: ACZ ID, Type, Analyzed, PCN/SCN, QC, Sample, Error, LLD, Found, Error, LLD, Rec%, Lower, Upper, RPD/RER, Limit, Qual. Rows include WG525106 and various sample types like PBW, LCSW, DUP-RPD, MS, DUP-RPD.

Radium 226, total

M903.1

Units: pCi/L

Table with columns: ACZ ID, Type, Analyzed, PCN/SCN, QC, Sample, Error, LLD, Found, Error, LLD, Rec%, Lower, Upper, RPD/RER, Limit, Qual. Rows include WG526665 and various sample types like PBW, LCSW, DUP-RPD, MS, DUP-RPD.

Radium 228, total

M904.0

Units: pCi/L

Table with columns: ACZ ID, Type, Analyzed, PCN/SCN, QC, Sample, Error, LLD, Found, Error, LLD, Rec%, Lower, Upper, RPD/RER, Limit, Qual. Rows include WG525851 and various sample types like PBW, LCSW, DUP-RER, DUP-RPD, MS, DUP-RER.

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L67644

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Units: %

Eichrom ACW03

U-232

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG527349																
WG527349PBW	PBW	09/24/21					30	73	130	30			60			
WG527349LCSW	LCSW	09/24/21	RC210601-11				30	72	130	30						
L67644-02DUP	DUP-RPD	09/24/21			79	130	30	80	130	30					20	
L67644-02DUP	DUP-RPD	09/24/21			79	130	30	80	130	30				1	20	
L67644-02DUP	DUP-RER	09/24/21			79	130	30	80	130	30					20	
L67658-03MS	MS	09/25/21	RC210601-11		80	130	30	57	130	30						
L67660-06DUP	DUP-RPD	09/28/21			79	130	30	80	130	30				1	20	
L67660-06DUP	DUP-RER	09/28/21			79	130	30	80	130	30					20	
L67660-06DUP	DUP-RPD	09/28/21			79	130	30	80	130	30					20	

Units: pCi/L

Eichrom ACW03

U-234

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG527349																
WG527349PBW	PBW	09/24/21					1.2	.773	0.8	1.2			2.4			
WG527349LCSW	LCSW	09/24/21	RC210601-11	98			2.1	95	12	2.1	97	77	122			
L67644-02DUP	DUP-RPD	09/24/21			22.6	4.1	2	21.2	3.8	1.2					20	
L67658-03MS	MS	09/25/21	RC210601-11	98	0.439	0.86	1.5	102	14	2.5	104	77	122			
L67660-06DUP	DUP-RPD	09/28/21			13.5	2.8	1.2	11.1	3	3.1				20		

Energy Fuels Resources (USA) Inc.

 ACZ Project ID: **L67644**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

U-235

Eichrom ACW03

Units: pCi/L

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG527349																
WG527349PBW	PBW	09/24/21						.0496	0.4	1			2			
WG527349LCSW	LCSW	09/24/21	RC210601-11	4.49				5.35	2	1.2	119	42	136			
L67644-02DUP	DUP-RPD	09/24/21			-0.296	0.58	1.6	.139	0.47	1				554	20	RG
L67644-02DUP	DUP-RER	09/24/21			-0.296	0.58	1.6	.139	0.47	1				0.58	2	
L67658-03MS	MS	09/25/21	RC210601-11	4.49	0.271	0.53	1	5.72	2.2	0.52	121	42	136			
L67660-06DUP	DUP-RER	09/28/21			-0.138	0.81	1.8	1.02	0.95	1.3				0.93	2	
L67660-06DUP	DUP-RPD	09/28/21			-0.138	0.81	1.8	1.02	0.95	1.3				263	20	RG

U-238

Eichrom ACW03

Units: pCi/L

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG527349																
WG527349PBW	PBW	09/24/21						.643	0.67	0.95			1.9			
WG527349LCSW	LCSW	09/24/21	RC210601-11	97.5				103	13	1.8	106	87	124			
L67644-02DUP	DUP-RPD	09/24/21			8.6	2.5	2.2	8.46	2.2	1.2				2	20	
L67658-03MS	MS	09/25/21	RC210601-11	97.5	-0.109	0.48	1.2	111	15	2	114	87	124			
L67660-06DUP	DUP-RPD	09/28/21			9.71	2.3	0.82	8.83	2.8	3.2				9	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L67644**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L67644-01	WG525851	Radium 228, total	M904.0	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M904.0	RM	For a water matrix, the duplicate precision assessment (RPD or RER) exceeded the control limit. High sediment, turbidity, or presence of an immiscible liquid attributed to non-homogeneity of the sample.
	WG527349	Uranium 235, total	Eichrom ACW03	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
L67644-02	WG525851	Radium 228, total	M904.0	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M904.0	RM	For a water matrix, the duplicate precision assessment (RPD or RER) exceeded the control limit. High sediment, turbidity, or presence of an immiscible liquid attributed to non-homogeneity of the sample.
	WG527349	Uranium 235, total	Eichrom ACW03	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
L67644-03	WG525851	Radium 228, total	M904.0	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M904.0	RM	For a water matrix, the duplicate precision assessment (RPD or RER) exceeded the control limit. High sediment, turbidity, or presence of an immiscible liquid attributed to non-homogeneity of the sample.
	WG527349	Uranium 235, total	Eichrom ACW03	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L67644**

Radiochemistry

The following parameters are not offered for certification or are not covered by AZ certificate #AZ0102.

Uranium 234, total	Eichrom ACW03
Uranium 235, total	Eichrom ACW03
Uranium 238, total	Eichrom ACW03

The following parameters are not offered for certification or are not covered by NELAC certificate #ACZ.

Uranium 234, total	Eichrom ACW03
Uranium 235, total	Eichrom ACW03
Uranium 238, total	Eichrom ACW03

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L67644
 Date Received: 08/06/2021 09:46
 Received By:
 Date Printed: 8/9/2021

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2) Is the Chain of Custody form or other directive shipping papers present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3) Does this project require special handling procedures such as CLP protocol?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4) Are any samples NRC licensable material?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5) If samples are received past hold time, proceed with requested short hold time analyses?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6) Is the Chain of Custody form complete and accurate?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples? A change was made in the Report to and Invoice to section prior to ACZ custody. A change was made in the Report to and Invoice to section prior to ACZ custody. A change was made in the Report to and Invoice to section prior to ACZ custody. A change was made in the Report to and Invoice to section prior to ACZ custody.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9) Are all labels on containers and are they intact and legible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11) For preserved bottle types, was the pH checked and within limits? ¹	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12) Is there sufficient sample volume to perform all requested work?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13) Is the custody seal intact on all containers?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
14) Are samples that require zero headspace acceptable?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
15) Are all sample containers appropriate for analytical requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16) Is there an Hg-1631 trip blank present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
17) Is there a VOA trip blank present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
18) Were all samples received within hold time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

NA indicates Not Applicable

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp (°C)	Temp Criteria (°C)	Rad (µR/Hr)	Custody Seal Intact?

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L67644
 Date Received: 08/06/2021 09:46
 Received By:
 Date Printed: 8/9/2021

4307	3.3	<=6.0	15	Yes
7151	0.6	<=6.0	15	N/A

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

¹ The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na2S2O3 preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).



Laboratories, Inc.

L67644

CHAIN of CUSTODY

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Report to:

Name: Kathy Weinel
Company: Energy Fuels
E-mail: kweinel@energyfuels.com

Address: 225 Union Blvd. Suite 600
Lakewood, CO 80028
Telephone: 303-389-4134

Copy of Report to:

Name:
Company:

E-mail:
Telephone:

Invoice to:

Name: Kathy Weinel
Company: Energy Fuels
E-mail: kweinel@energyfuels.com

Address: 225 Union Blvd, Suite 600
Lakewood, CO 80028
Telephone: 303-389-4134

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES [X] NO

If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified

Are samples for SDWA Compliance Monitoring? Yes No [X]

If yes, please include state forms. Results will be reported to PQL for Colorado.

Sampler's Name: Matt Germanson Sampler's Site Information State AZ Zip code Time Zone

*Sampler's Signature: [Signature] I attest to the authenticity and validity of this sample. I understand that intentionally mistabeling the time/date/location or tampering with the sample in anyway, is considered fraud and punishable by State Law.

PROJECT INFORMATION

ANALYSES REQUESTED (attach list or use quote number)

Quote #: PP-GW-INDAPP, PP-RING-ADEQ-SPLIT,
PO#: PP-SUMP-INDAPP
Reporting state for compliance testing:
Check box if samples include NRC licensed material?

Table with columns for Matrix, # of Containers, and various analysis types (PP-GW-INDAPP, PP-RING-ADEQ-SPLIT, PP-SUMP-INDAPP) with handwritten 'X' marks.

Table with columns for SAMPLE IDENTIFICATION, DATE:TIME, and Matrix, containing handwritten entries for PP-Well-2021-Q3, PP-Ring-2021-Q3, and PP-SUMP-2021-Q3.

Matrix SW (Surface Water) - GW (Ground Water) - WW (Waste Water) - DW (Drinking Water) - SL (Sludge) - SO (Soil) - OL (Oil) - Other (Specify)

REMARKS

Normal TAT All Samples

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY: DATE:TIME RECEIVED BY: DATE:TIME
Matt Germanson 8/5/21:1510 [Signature] 8/6/21 9:47

L67644 Chain of Custody

October 25, 2021

Report to:

Kathy Weinel

Energy Fuels Resources (USA) Inc.

225 Union Blvd. ,Suite 600

Lakewood, CO 80228

Bill to:

Accounts Payable

Energy Fuels Resources (USA) Inc.

225 Union Blvd. ,Suite 600

Lakewood, CO 80228

Project ID:

ACZ Project ID: L68260

Kathy Weinel:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on September 03, 2021. This project has been assigned to ACZ's project number, L68260. Please reference this number in all future inquiries.

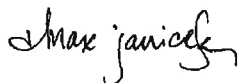
All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L68260. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after November 24, 2021. If the samples are determined to be hazardous, additional charges apply for disposal (typically \$11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.



Max Janicek has reviewed and approved this report.



Energy Fuels Resources (USA) Inc.

October 25, 2021

Project ID:

ACZ Project ID: L68260

Sample Receipt

ACZ Laboratories, Inc. (ACZ) received 4 groundwater samples from Energy Fuels Resources (USA) Inc. on September 3, 2021. The samples were received in good condition. Upon receipt, the sample custodian removed the samples from the cooler, inspected the contents, and logged the samples into ACZ's computerized Laboratory Information Management System (LIMS). The samples were assigned ACZ LIMS project number L68260. The custodian verified the sample information entered into the computer against the chain of custody (COC) forms and sample bottle labels.

Holding Times

All analyses were performed within EPA recommended holding times.

Sample Analysis

These samples were analyzed for inorganic, radiochemistry parameters. The individual methods are referenced on both the ACZ invoice and the analytical reports. The extended qualifier reports may contain footnotes qualifying specific elements due to QC failures. In addition, the following has been noted with this specific project:

The below is from WG527139

Qualifier: N1

Applies to:

L68260-01/ALPHA

L68260-02/ALPHA

L68260-03/ALPHA

L68260-04/ALPHA

Batch duplicated outside of acceptance limits for both Alpha and Beta RPD and RER due to uneven and heavy sediment distribution on duplicate and original planchet. All samples in this duplicate's range are GW samples with high LLD; all of these samples also have activity less than the associated LLD.

The below is from WG528025

Qualifier: B1

Applies to:

L68260-04/RADIUM 228

Target analyte detected in method blank at or above the method reporting limit. Blank above limit by 0.05pCi/L, which is < the error of the measured blank value.

Energy Fuels Resources (USA) Inc.
 Project ID:
 Sample ID: CYN-MON-01-2021-Q3

ACZ Sample ID: **L68260-01**
 Date Sampled: 09/01/21 11:52
 Date Received: 09/03/21
 Sample Matrix: Groundwater

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, dissolved	M200.8 ICP-MS	1	0.00450			mg/L	0.0004	0.002	09/16/21 18:32	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	0.0700			mg/L	0.0002	0.001	09/16/21 18:32	bsu
Barium, dissolved	M200.7 ICP	1	0.0295	B		mg/L	0.007	0.035	09/16/21 0:39	kja
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	09/16/21 18:32	bsu
Cadmium, dissolved	M200.8 ICP-MS	1	<0.00005	U		mg/L	0.00005	0.00025	09/16/21 18:32	bsu
Calcium, dissolved	M200.7 ICP	1	113		*	mg/L	0.1	0.5	09/16/21 0:39	kja
Chromium, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	09/16/21 21:45	kja
Lead, dissolved	M200.8 ICP-MS	1	0.00142			mg/L	0.0001	0.0005	09/16/21 18:32	bsu
Magnesium, dissolved	M200.7 ICP	1	57.5		*	mg/L	0.2	1	09/16/21 0:39	kja
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	09/08/21 14:36	mlh
Nickel, dissolved	M200.7 ICP	1	0.109		*	mg/L	0.008	0.04	09/16/21 0:39	kja
Potassium, dissolved	M200.7 ICP	1	1.69			mg/L	0.2	1	09/16/21 0:39	kja
Selenium, dissolved	M200.8 ICP-MS	1	0.00012	B		mg/L	0.0001	0.00025	09/16/21 18:32	bsu
Sodium, dissolved	M200.7 ICP	1	3.18			mg/L	0.2	1	09/16/21 0:39	kja
Thallium, dissolved	M200.8 ICP-MS	1	0.00123			mg/L	0.0001	0.0005	09/16/21 18:32	bsu
Uranium, dissolved	M200.8 ICP-MS	1	0.0138			mg/L	0.0001	0.0005	09/16/21 18:32	bsu

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	220			mg/L	2	20	09/15/21 0:00	emk
Carbonate as CaCO3		1	<2	U		mg/L	2	20	09/15/21 0:00	emk
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	09/15/21 0:00	emk
Total Alkalinity		1	220		*	mg/L	2	20	09/15/21 0:00	emk
Conductivity @25C	SM2510B	1	902			umhos/cm	1	10	09/14/21 0:15	jck
Fluoride	SM4500F-C	1	0.28	B		mg/L	0.15	0.35	09/20/21 13:35	eep
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	<0.02	U	*	mg/L	0.02	0.1	09/18/21 2:16	pjb
pH (lab)	SM4500H+ B									
pH		1	8.1	H		units	0.1	0.1	09/15/21 0:00	emk
pH measured at		1	21.5			C	0.1	0.1	09/15/21 0:00	emk
Residue, Filterable (TDS) @180C	SM2540C	1	648			mg/L	20	40	09/08/21 13:54	emk
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	15	295		*	mg/L	15	75	09/22/21 12:35	wtc

Arizona license number: **AZ0102**

Energy Fuels Resources (USA) Inc.
 Project ID:
 Sample ID: CYN-MON-02-2021-Q3

ACZ Sample ID: **L68260-02**
 Date Sampled: 09/01/21 15:42
 Date Received: 09/03/21
 Sample Matrix: Groundwater

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, dissolved	M200.8 ICP-MS	1	0.00044	B		mg/L	0.0004	0.002	09/16/21 18:34	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	0.00630			mg/L	0.0002	0.001	09/16/21 18:34	bsu
Barium, dissolved	M200.7 ICP	1	0.0540			mg/L	0.007	0.035	09/16/21 0:42	kja
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	09/16/21 18:34	bsu
Cadmium, dissolved	M200.8 ICP-MS	1	<0.00005	U		mg/L	0.00005	0.00025	09/16/21 18:34	bsu
Calcium, dissolved	M200.7 ICP	1	74.9		*	mg/L	0.1	0.5	09/16/21 0:42	kja
Chromium, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	09/16/21 21:54	kja
Lead, dissolved	M200.8 ICP-MS	1	0.00038	B		mg/L	0.0001	0.0005	09/16/21 18:34	bsu
Magnesium, dissolved	M200.7 ICP	1	36.5		*	mg/L	0.2	1	09/16/21 0:42	kja
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	09/08/21 14:37	mlh
Nickel, dissolved	M200.7 ICP	1	0.0174	B	*	mg/L	0.008	0.04	09/16/21 0:42	kja
Potassium, dissolved	M200.7 ICP	1	3.88			mg/L	0.2	1	09/16/21 0:42	kja
Selenium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.00025	09/16/21 18:34	bsu
Sodium, dissolved	M200.7 ICP	1	2.79			mg/L	0.2	1	09/16/21 0:42	kja
Thallium, dissolved	M200.8 ICP-MS	1	0.00076			mg/L	0.0001	0.0005	09/16/21 18:34	bsu
Uranium, dissolved	M200.8 ICP-MS	1	0.00572			mg/L	0.0001	0.0005	09/16/21 18:34	bsu

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	230			mg/L	2	20	09/15/21 0:00	emk
Carbonate as CaCO3		1	<2	U		mg/L	2	20	09/15/21 0:00	emk
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	09/15/21 0:00	emk
Total Alkalinity		1	230		*	mg/L	2	20	09/15/21 0:00	emk
Conductivity @25C	SM2510B	1	632			umhos/cm	1	10	09/14/21 0:34	jck
Fluoride	SM4500F-C	1	0.17	B		mg/L	0.15	0.35	09/20/21 13:43	eep
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	<0.02	U	*	mg/L	0.02	0.1	09/18/21 2:19	pjb
pH (lab)	SM4500H+ B									
pH		1	8.2	H		units	0.1	0.1	09/15/21 0:00	emk
pH measured at		1	22.1			C	0.1	0.1	09/15/21 0:00	emk
Residue, Filterable (TDS) @180C	SM2540C	1	402			mg/L	20	40	09/08/21 13:57	emk
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	5	110		*	mg/L	5	25	09/22/21 12:31	wtc

Arizona license number: **AZ0102**

Energy Fuels Resources (USA) Inc.

Project ID:

Sample ID: CYN-MON-03-2021-Q3

ACZ Sample ID: **L68260-03**

Date Sampled: 09/02/21 12:23

Date Received: 09/03/21

Sample Matrix: Groundwater

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	09/16/21 18:39	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	0.00685			mg/L	0.0002	0.001	09/16/21 18:39	bsu
Barium, dissolved	M200.7 ICP	1	0.0155	B		mg/L	0.007	0.035	09/16/21 0:46	kja
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	09/16/21 18:39	bsu
Cadmium, dissolved	M200.8 ICP-MS	1	<0.00005	U		mg/L	0.00005	0.00025	09/16/21 18:39	bsu
Calcium, dissolved	M200.7 ICP	1	173		*	mg/L	0.1	0.5	09/16/21 0:46	kja
Chromium, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	09/16/21 21:58	kja
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/16/21 18:39	bsu
Magnesium, dissolved	M200.7 ICP	1	82.4		*	mg/L	0.2	1	09/16/21 0:46	kja
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	09/08/21 14:38	mlh
Nickel, dissolved	M200.7 ICP	1	0.208		*	mg/L	0.008	0.04	09/16/21 0:46	kja
Potassium, dissolved	M200.7 ICP	1	2.16			mg/L	0.2	1	09/16/21 0:46	kja
Selenium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.00025	09/16/21 18:39	bsu
Sodium, dissolved	M200.7 ICP	1	3.58			mg/L	0.2	1	09/16/21 0:46	kja
Thallium, dissolved	M200.8 ICP-MS	1	0.00033	B		mg/L	0.0001	0.0005	09/16/21 18:39	bsu
Uranium, dissolved	M200.8 ICP-MS	1	0.00410			mg/L	0.0001	0.0005	09/16/21 18:39	bsu

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	167			mg/L	2	20	09/15/21 0:00	emk
Carbonate as CaCO3		1	<2	U		mg/L	2	20	09/15/21 0:00	emk
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	09/15/21 0:00	emk
Total Alkalinity		1	167		*	mg/L	2	20	09/15/21 0:00	emk
Conductivity @25C	SM2510B	1	1290		*	umhos/cm	1	10	09/14/21 0:43	jck
Fluoride	SM4500F-C	1	0.15	B		mg/L	0.15	0.35	09/20/21 14:07	eep
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	<0.02	U	*	mg/L	0.02	0.1	09/18/21 2:20	pjb
pH (lab)	SM4500H+ B									
pH		1	7.8	H	*	units	0.1	0.1	09/15/21 0:00	emk
pH measured at		1	22.4			C	0.1	0.1	09/15/21 0:00	emk
Residue, Filterable (TDS) @180C	SM2540C	1	1080			mg/L	20	40	09/08/21 15:45	anc
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	20	615		*	mg/L	20	100	09/22/21 13:04	wtc

Arizona license number: **AZ0102**

Energy Fuels Resources (USA) Inc.

Project ID:

Sample ID: CYN-MON-03-2021-Q3 DUP

ACZ Sample ID: **L68260-04**

Date Sampled: 09/02/21 12:23

Date Received: 09/03/21

Sample Matrix: Groundwater

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	09/16/21 18:41	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	0.00689			mg/L	0.0002	0.001	09/16/21 18:41	bsu
Barium, dissolved	M200.7 ICP	1	0.0156	B		mg/L	0.007	0.035	09/16/21 0:55	kja
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	09/16/21 18:41	bsu
Cadmium, dissolved	M200.8 ICP-MS	1	<0.00005	U		mg/L	0.00005	0.00025	09/16/21 18:41	bsu
Calcium, dissolved	M200.7 ICP	1	175		*	mg/L	0.1	0.5	09/16/21 0:55	kja
Chromium, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	09/16/21 22:07	kja
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/16/21 18:41	bsu
Magnesium, dissolved	M200.7 ICP	1	82.9		*	mg/L	0.2	1	09/16/21 0:55	kja
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	09/08/21 14:39	mlh
Nickel, dissolved	M200.7 ICP	1	0.212		*	mg/L	0.008	0.04	09/16/21 0:55	kja
Potassium, dissolved	M200.7 ICP	1	2.21			mg/L	0.2	1	09/16/21 0:55	kja
Selenium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.00025	09/16/21 18:41	bsu
Sodium, dissolved	M200.7 ICP	1	3.65			mg/L	0.2	1	09/16/21 0:55	kja
Thallium, dissolved	M200.8 ICP-MS	1	0.00032	B		mg/L	0.0001	0.0005	09/16/21 18:41	bsu
Uranium, dissolved	M200.8 ICP-MS	1	0.00407			mg/L	0.0001	0.0005	09/16/21 18:41	bsu

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	166			mg/L	2	20	09/15/21 0:00	emk
Carbonate as CaCO3		1	<2	U		mg/L	2	20	09/15/21 0:00	emk
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	09/15/21 0:00	emk
Total Alkalinity		1	166		*	mg/L	2	20	09/15/21 0:00	emk
Conductivity @25C	SM2510B	1	1290		*	umhos/cm	1	10	09/14/21 0:53	jck
Fluoride	SM4500F-C	1	<0.15	U		mg/L	0.15	0.35	09/20/21 14:15	eep
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	<0.02	U	*	mg/L	0.02	0.1	09/18/21 2:21	pjb
pH (lab)	SM4500H+ B									
pH		1	7.9	H	*	units	0.1	0.1	09/15/21 0:00	emk
pH measured at		1	22.8			C	0.1	0.1	09/15/21 0:00	emk
Residue, Filterable (TDS) @180C	SM2540C	1	1070			mg/L	20	40	09/08/21 15:49	anc
Sulfate	D516-02/07-11 - TURBIDIMETRIC	20	594		*	mg/L	20	100	09/22/21 13:04	wtc

Arizona license number: AZ0102

EFRC

ACZ Project ID: **L68260**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Alkalinity as CaCO3 SM2320B - Titration

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527307													
WG527307PBW	PBW	09/15/21 18:04				26.1	mg/L		-20	20			B4 BF
WG527307LCSW2	LCSW	09/15/21 18:20	WC210908-1	820.0001		792.5	mg/L	97	90	110			
L68260-03DUP	DUP	09/15/21 19:47			167	166.9	mg/L				0	20	
L68369-03DUP	DUP	09/15/21 20:55			7.3	11.1	mg/L				41	20	RA
WG527307LCSW4	LCSW	09/15/21 21:11	WC210908-1	820.0001		793.7	mg/L	97	90	110			

Antimony, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527397													
WG527397ICV	ICV	09/16/21 17:57	MS210727-2	.0201		.02024	mg/L	101	90	110			
WG527397ICB	ICB	09/16/21 17:59				U	mg/L		-0.00088	0.00088			
WG527397LFB	LFB	09/16/21 18:00	MS210827-2	.01		.009	mg/L	90	85	115			
L68291-04AS	AS	09/16/21 18:10	MS210827-2	.01	U	.00837	mg/L	84	70	130			
L68291-04ASD	ASD	09/16/21 18:12	MS210827-2	.01	U	.00859	mg/L	86	70	130	3	20	
L68109-01AS	AS	09/16/21 18:23	MS210827-2	1	U	.92537	mg/L	93	70	130			
L68109-01ASD	ASD	09/16/21 18:24	MS210827-2	1	U	.92355	mg/L	92	70	130	0	20	

Arsenic, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527397													
WG527397ICV	ICV	09/16/21 17:57	MS210727-2	.05		.05298	mg/L	106	90	110			
WG527397ICB	ICB	09/16/21 17:59				U	mg/L		-0.00044	0.00044			
WG527397LFB	LFB	09/16/21 18:00	MS210827-2	.05005		.05012	mg/L	100	85	115			
L68291-04AS	AS	09/16/21 18:10	MS210827-2	.05005	.00057	.05013	mg/L	99	70	130			
L68291-04ASD	ASD	09/16/21 18:12	MS210827-2	.05005	.00057	.0499	mg/L	99	70	130	0	20	
L68109-01AS	AS	09/16/21 18:23	MS210827-2	5.005	U	4.93411	mg/L	99	70	130			
L68109-01ASD	ASD	09/16/21 18:24	MS210827-2	5.005	U	4.94074	mg/L	99	70	130	0	20	

Barium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527262													
WG527262ICV	ICV	09/16/21 0:18	11210826-1	2		1.976	mg/L	99	95	105			
WG527262ICB	ICB	09/16/21 0:24				.0087	mg/L		-0.021	0.021			
WG527262LFB	LFB	09/16/21 0:36	11210910-2	.5		.4895	mg/L	98	85	115			
L68260-03AS	AS	09/16/21 0:49	11210910-2	.5	.0155	.4602	mg/L	89	85	115			
L68260-03ASD	ASD	09/16/21 0:52	11210910-2	.5	.0155	.4832	mg/L	94	85	115	5	20	

Beryllium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527397													
WG527397ICV	ICV	09/16/21 17:57	MS210727-2	.05		.052789	mg/L	106	90	110			
WG527397ICB	ICB	09/16/21 17:59				.000082	mg/L		-0.000176	0.000176			
WG527397LFB	LFB	09/16/21 18:00	MS210827-2	.05005		.049371	mg/L	99	85	115			
L68291-04AS	AS	09/16/21 18:10	MS210827-2	.05005	U	.053564	mg/L	107	70	130			
L68291-04ASD	ASD	09/16/21 18:12	MS210827-2	.05005	U	.052894	mg/L	106	70	130	1	20	
L68109-01AS	AS	09/16/21 18:23	MS210827-2	5.005	U	5.110427	mg/L	102	70	130			
L68109-01ASD	ASD	09/16/21 18:24	MS210827-2	5.005	U	5.14264	mg/L	103	70	130	1	20	

EFRC

ACZ Project ID: **L68260**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Cadmium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527397													
WG527397ICV	ICV	09/16/21 17:57	MS210727-2	.05		.053577	mg/L	107	90	110			
WG527397ICB	ICB	09/16/21 17:59				.000057	mg/L		-0.00011	0.00011			
WG527397LFB	LFB	09/16/21 18:00	MS210827-2	.05005		.049306	mg/L	99	85	115			
L68291-04AS	AS	09/16/21 18:10	MS210827-2	.05005	U	.048694	mg/L	97	70	130			
L68291-04ASD	ASD	09/16/21 18:12	MS210827-2	.05005	U	.048414	mg/L	97	70	130	1	20	
L68109-01AS	AS	09/16/21 18:23	MS210827-2	5.005	U	4.945098	mg/L	99	70	130			
L68109-01ASD	ASD	09/16/21 18:24	MS210827-2	5.005	U	4.985052	mg/L	100	70	130	1	20	

Calcium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527262													
WG527262ICV	ICV	09/16/21 0:18	II210826-1	100		97.07	mg/L	97	95	105			
WG527262ICB	ICB	09/16/21 0:24				U	mg/L		-0.3	0.3			
WG527262LFB	LFB	09/16/21 0:36	II210910-2	67.98972		66.29	mg/L	98	85	115			
L68260-03AS	AS	09/16/21 0:49	II210910-2	67.98972	173	227.5	mg/L	80	85	115			M2
L68260-03ASD	ASD	09/16/21 0:52	II210910-2	67.98972	173	221.4	mg/L	71	85	115	3	20	M2

Chromium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527359													
WG527359ICV	ICV	09/16/21 20:57	II210826-1	2		1.962	mg/L	98	95	105			
WG527359ICB	ICB	09/16/21 21:03				U	mg/L		-0.06	0.06			
WG527359LFB	LFB	09/16/21 21:16	II210910-2	.5005		.495	mg/L	99	85	115			
L68213-03AS	AS	09/16/21 21:29	II210910-2	.5005	.052	.518	mg/L	96	85	115			
L68213-03ASD	ASD	09/16/21 21:32	II210910-2	.5005	.052	.524	mg/L	98	85	115	1	20	
L68260-03AS	AS	09/16/21 22:01	II210910-2	.5005	U	.452	mg/L	90	85	115			
L68260-03ASD	ASD	09/16/21 22:04	II210910-2	.5005	U	.489	mg/L	98	85	115	8	20	

Conductivity @25C SM2510B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527091													
WG527091LCSW2	LCSW	09/13/21 20:05	PCN63140	1408		1396	umhos/cm	99	90	110			
WG527091LCSW5	LCSW	09/13/21 23:00	PCN63140	1408		1392	umhos/cm	99	90	110			
L68260-01DUP	DUP	09/14/21 0:24			902	904	umhos/cm				0	20	
L68295-01DUP	DUP	09/14/21 1:51			426	424	umhos/cm				0	20	
WG527091LCSW8	LCSW	09/14/21 1:58	PCN63140	1408		1380	umhos/cm	98	90	110			
WG527091LCSW11	LCSW	09/14/21 5:46	PCN63140	1408		1370	umhos/cm	97	90	110			
WG527091LCSW14	LCSW	09/14/21 9:29	PCN63140	1408		1372	umhos/cm	97	90	110			

Fluoride SM4500F-C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527572													
WG527572ICV	ICV	09/20/21 13:14	WC210920-1	2.002		2.11	mg/L	105	90	110			
WG527572ICB	ICB	09/20/21 13:20				U	mg/L		-0.3	0.3			
WG527572LFB1	LFB	09/20/21 13:27	WC210803-9	5.02		5.31	mg/L	106	90	110			
L68260-02AS	AS	09/20/21 13:51	WC210803-9	5.02	.17	5.31	mg/L	102	90	110			
L68260-02ASD	ASD	09/20/21 13:59	WC210803-9	5.02	.17	5.33	mg/L	103	90	110	0	20	
WG527572LFB2	LFB	09/20/21 17:03	WC210803-9	5.02		5.38	mg/L	107	90	110			

EFRC

ACZ Project ID: **L68260**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Lead, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527397													
WG527397ICV	ICV	09/16/21 17:57	MS210727-2	.05		.05262	mg/L	105	90	110			
WG527397ICB	ICB	09/16/21 17:59				.00012	mg/L		-0.00022	0.00022			
WG527397LFB	LFB	09/16/21 18:00	MS210827-2	.05005		.04956	mg/L	99	85	115			
L68291-04AS	AS	09/16/21 18:10	MS210827-2	.05005	U	.0494	mg/L	99	70	130			
L68291-04ASD	ASD	09/16/21 18:12	MS210827-2	.05005	U	.04934	mg/L	99	70	130	0	20	
L68109-01AS	AS	09/16/21 18:23	MS210827-2	5.005	U	4.90694	mg/L	98	70	130			
L68109-01ASD	ASD	09/16/21 18:24	MS210827-2	5.005	U	4.96613	mg/L	99	70	130	1	20	

Magnesium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527262													
WG527262ICV	ICV	09/16/21 0:18	II210826-1	100		95.03	mg/L	95	95	105			
WG527262ICB	ICB	09/16/21 0:24				U	mg/L		-0.6	0.6			
WG527262LFB	LFB	09/16/21 0:36	II210910-2	49.99828		46.62	mg/L	93	85	115			
L68260-03AS	AS	09/16/21 0:49	II210910-2	49.99828	82.4	124.2	mg/L	84	85	115			M2
L68260-03ASD	ASD	09/16/21 0:52	II210910-2	49.99828	82.4	120.6	mg/L	76	85	115	3	20	M2

Mercury, dissolved

M245.1 CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG526711													
WG526711ICV	ICV	09/08/21 11:29	HG210830-3	.00501		.00497	mg/L	99	95	105			
WG526711ICB	ICB	09/08/21 11:30				U	mg/L		-0.0002	0.0002			
WG526731													
WG526731LRB	LRB	09/08/21 14:14				U	mg/L		-0.00044	0.00044			
WG526731LFB	LFB	09/08/21 14:15	HG210830-6	.002002		.00179	mg/L	89	85	115			
L68217-12LFM	LFM	09/08/21 14:31	HG210830-6	.002002	U	.00178	mg/L	89	85	115			
L68217-12LFMD	LFMD	09/08/21 14:32	HG210830-6	.002002	U	.0018	mg/L	90	85	115	1	20	

Nickel, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527262													
WG527262ICV	ICV	09/16/21 0:18	II210826-1	2		1.9632	mg/L	98	95	105			
WG527262ICB	ICB	09/16/21 0:24				U	mg/L		-0.024	0.024			
WG527262LFB	LFB	09/16/21 0:36	II210910-2	.5		.4888	mg/L	98	85	115			
L68260-03AS	AS	09/16/21 0:49	II210910-2	.5	.208	.6272	mg/L	84	85	115			MA
L68260-03ASD	ASD	09/16/21 0:52	II210910-2	.5	.208	.6467	mg/L	88	85	115	3	20	

Nitrate/Nitrite as N

M353.2 - H2SO4 preserved

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527494													
WG527494ICV	ICV	09/17/21 23:19	WI210904-1	2.4161		2.374	mg/L	98	90	110			
WG527494ICB	ICB	09/17/21 23:20				U	mg/L		-0.02	0.02			
WG527497													
WG527497LFB	LFB	09/18/21 2:12	WI210331-13	2		2.003	mg/L	100	90	110			
L68242-01AS	AS	09/18/21 2:15	WI210331-13	2	U	1.918	mg/L	96	90	110			
L68260-01DUP	DUP	09/18/21 2:17			U	U	mg/L				0	20	RA

EFRC

ACZ Project ID: **L68260**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

pH (lab)

SM4500H+ B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527307													
WG527307LCSW1	LCSW	09/15/21 18:09	PCN62948	6		6	units	100	5.9	6.1			
L68260-03DUP	DUP	09/15/21 19:47			7.8	7.8	units				0	20	
L68369-03DUP	DUP	09/15/21 20:55			7.7	7.9	units				3	20	
WG527307LCSW3	LCSW	09/15/21 20:59	PCN62948	6		6.1	units	102	5.9	6.1			

Potassium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527262													
WG527262ICV	ICV	09/16/21 0:18	II210826-1	20		19.7	mg/L	99	95	105			
WG527262ICB	ICB	09/16/21 0:24				U	mg/L		-0.6	0.6			
WG527262LFB	LFB	09/16/21 0:36	II210910-2	99.96008		96.56	mg/L	97	85	115			
L68260-03AS	AS	09/16/21 0:49	II210910-2	99.96008	2.16	99.47	mg/L	97	85	115			
L68260-03ASD	ASD	09/16/21 0:52	II210910-2	99.96008	2.16	98.24	mg/L	96	85	115	1	20	

Residue, Filterable (TDS) @180C

SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG526770													
WG526770PBW	PBW	09/08/21 13:00				U	mg/L		-20	20			
WG526770LCSW	LCSW	09/08/21 13:02	PCN64129	1000		986	mg/L	99	80	120			
L68260-02DUP	DUP	09/08/21 14:00			402	404	mg/L				0	10	
WG526785													
WG526785PBW	PBW	09/08/21 14:39				U	mg/L		-20	20			
WG526785LCSW	LCSW	09/08/21 14:42	PCN64129	1000		986	mg/L	99	80	120			
L68265-01DUP	DUP	09/08/21 15:59			740	736	mg/L				1	10	

Selenium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527397													
WG527397ICV	ICV	09/16/21 17:57	MS210727-2	.05		.05312	mg/L	106	90	110			
WG527397ICB	ICB	09/16/21 17:59				.00012	mg/L		-0.00022	0.00022			
WG527397LFB	LFB	09/16/21 18:00	MS210827-2	.05		.04933	mg/L	99	85	115			
L68291-04AS	AS	09/16/21 18:10	MS210827-2	.05	.00027	.0504	mg/L	100	70	130			
L68291-04ASD	ASD	09/16/21 18:12	MS210827-2	.05	.00027	.0504	mg/L	100	70	130	0	20	
L68109-01AS	AS	09/16/21 18:23	MS210827-2	5	U	4.82396	mg/L	96	70	130			
L68109-01ASD	ASD	09/16/21 18:24	MS210827-2	5	U	4.78718	mg/L	96	70	130	1	20	

Sodium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527262													
WG527262ICV	ICV	09/16/21 0:18	II210826-1	100		99.13	mg/L	99	95	105			
WG527262ICB	ICB	09/16/21 0:24				U	mg/L		-0.6	0.6			
WG527262LFB	LFB	09/16/21 0:36	II210910-2	100.007		97.61	mg/L	98	85	115			
L68260-03AS	AS	09/16/21 0:49	II210910-2	100.007	3.58	101.8	mg/L	98	85	115			
L68260-03ASD	ASD	09/16/21 0:52	II210910-2	100.007	3.58	100.8	mg/L	97	85	115	1	20	

EFRC

ACZ Project ID: **L68260**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Sulfate

D516-02/-07/-11 - TURBIDIMETRIC

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527791													
WG527791ICB	ICB	09/21/21 10:12				U	mg/L		-3	3			
WG527791ICV	ICV	09/21/21 10:12	WI210909-1	20.46		20	mg/L	98	90	110			
WG527791LFB	LFB	09/22/21 12:10	WI210105-3	10		9.5	mg/L	95	90	110			
L68260-01AS	AS	09/22/21 12:35	SO4TURB15X	10.0000005	295	302.3	mg/L	73	90	110			M3
L68242-01DUP	DUP	09/22/21 13:04			3710	3712.8	mg/L				0	20	

Thallium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527397													
WG527397ICV	ICV	09/16/21 17:57	MS210727-2	.05		.05311	mg/L	106	90	110			
WG527397ICB	ICB	09/16/21 17:59				U	mg/L		-0.00022	0.00022			
WG527397LFB	LFB	09/16/21 18:00	MS210827-2	.05		.04859	mg/L	97	85	115			
L68291-04AS	AS	09/16/21 18:10	MS210827-2	.05	U	.04869	mg/L	97	70	130			
L68291-04ASD	ASD	09/16/21 18:12	MS210827-2	.05	U	.04889	mg/L	98	70	130	0	20	
L68109-01AS	AS	09/16/21 18:23	MS210827-2	5	U	4.79488	mg/L	96	70	130			
L68109-01ASD	ASD	09/16/21 18:24	MS210827-2	5	U	4.89897	mg/L	98	70	130	2	20	

Uranium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527397													
WG527397ICV	ICV	09/16/21 17:57	MS210727-2	.05		.05228	mg/L	105	90	110			
WG527397ICB	ICB	09/16/21 17:59				U	mg/L		-0.00022	0.00022			
WG527397LFB	LFB	09/16/21 18:00	MS210827-2	.05		.04941	mg/L	99	85	115			
L68291-04AS	AS	09/16/21 18:10	MS210827-2	.05	U	.05064	mg/L	101	70	130			
L68291-04ASD	ASD	09/16/21 18:12	MS210827-2	.05	U	.05034	mg/L	101	70	130	1	20	
L68109-01AS	AS	09/16/21 18:23	MS210827-2	5	12.8	18.42391	mg/L	112	70	130			
L68109-01ASD	ASD	09/16/21 18:24	MS210827-2	5	12.8	18.08315	mg/L	106	70	130	2	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L68260**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L68260-01	WG527262	Calcium, dissolved	M200.7 ICP	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
		Magnesium, dissolved	M200.7 ICP	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
		Nickel, dissolved	M200.7 ICP	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
	WG527497	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG527791	Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG527307	Total Alkalinity	SM2320B - Titration	B4	Target analyte detected in blank at or above the acceptance criteria.
	L68260-02	WG527262	Calcium, dissolved	M200.7 ICP	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
Magnesium, dissolved			M200.7 ICP	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
Nickel, dissolved			M200.7 ICP	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
WG527497		Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
WG527791		Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
WG527307		Total Alkalinity	SM2320B - Titration	B4	Target analyte detected in blank at or above the acceptance criteria.
L68260-03		WG527262	Calcium, dissolved	M200.7 ICP	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG527091	Conductivity @25C	SM2510B	ZW	Method deviation. The sample was centrifuged prior to analysis due to high solid content.
	WG527262	Magnesium, dissolved	M200.7 ICP	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
		Nickel, dissolved	M200.7 ICP	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
	WG527497	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG527307	pH	SM4500H+ B	ZW	Method deviation. The sample was centrifuged prior to analysis due to high solid content.
	WG527791	Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG527307	Total Alkalinity	SM2320B - Titration	B4	Target analyte detected in blank at or above the acceptance criteria.
			SM2320B - Titration	ZW	Method deviation. The sample was centrifuged prior to analysis due to high solid content.

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L68260**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L68260-04	WG527262	Calcium, dissolved	M200.7 ICP	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG527091	Conductivity @25C	SM2510B	ZW	Method deviation. The sample was centrifuged prior to analysis due to high solid content.
	WG527262	Magnesium, dissolved	M200.7 ICP	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
		Nickel, dissolved	M200.7 ICP	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
	WG527497	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG527307	pH	SM4500H+ B	ZW	Method deviation. The sample was centrifuged prior to analysis due to high solid content.
	WG527791	Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG527307	Total Alkalinity	SM2320B - Titration	B4	Target analyte detected in blank at or above the acceptance criteria.
			SM2320B - Titration	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			SM2320B - Titration	ZW	Method deviation. The sample was centrifuged prior to analysis due to high solid content.

Energy Fuels Resources (USA) Inc.

Project ID:

Sample ID: CYN-MON-01-2021-Q3

Locator:

ACZ Sample ID: **L68260-01**

Date Sampled: 09/01/21 11:52

Date Received: 09/03/21

Sample Matrix: Groundwater

Combined Radium (total)

Prep Method:

Calculation (RA226 + RA228)

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Combined Radium (total)	10/25/21 11:35		2.1			pCi/L		calc

Gross Alpha Total, corrected

Prep Method:

Calculation

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Gross Alpha Total, corrected	10/25/21 11:35		-5.1			pCi/L		calc

Gross Alpha, total

Prep Method:

M900.0

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Gross Alpha, total	09/22/21 0:14		15	4.9	23	pCi/L	*	fdw

Radium 226, total

Prep Method:

M903.1

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 226, total	10/22/21 0:02		2.1	0.19	0.34	pCi/L		fdw

Radium 228, total

Prep Method:

M904.0

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 228, total	10/03/21 23:24		2	0.94	2.1	pCi/L	*	ess

Uranium, Isotopic Total

Prep Method:

Eichrom ACW03

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Uranium 234, total	10/07/21 23:12		14.6	3.2	2	pCi/L	*	amk
Uranium 235, total	10/07/21 23:12		0.678	1.2	2.2	pCi/L	*	amk
Uranium 238, total	10/07/21 23:12		5.51	2	2.1	pCi/L	*	amk

Arizona license number: AZ0102

Energy Fuels Resources (USA) Inc.

Project ID:

Sample ID: CYN-MON-02-2021-Q3

Locator:

ACZ Sample ID: **L68260-02**

Date Sampled: 09/01/21 15:42

Date Received: 09/03/21

Sample Matrix: Groundwater

Combined Radium (total)

Prep Method:

Calculation (RA226 + RA228)

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Combined Radium (total)	10/25/21 11:35		2.5			pCi/L		calc

Gross Alpha Total, corrected

Prep Method:

Calculation

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Gross Alpha Total, corrected	10/25/21 11:35		4.1			pCi/L		calc

Gross Alpha, total

Prep Method:

M900.0

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Gross Alpha, total	09/22/21 0:15		11	4.2	12	pCi/L	*	fdw

Radium 226, total

Prep Method:

M903.1

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 226, total	10/22/21 0:04		2.5	0.2	0.42	pCi/L		fdw

Radium 228, total

Prep Method:

M904.0

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 228, total	10/03/21 23:24		0.94	0.67	1.5	pCi/L	*	ess

Uranium, Isotopic Total

Prep Method:

Eichrom ACW03

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Uranium 234, total	10/07/21 23:12		4.27	1.9	2.3	pCi/L	*	amk
Uranium 235, total	10/07/21 23:12		0.0849	0.34	0.82	pCi/L	*	amk
Uranium 238, total	10/07/21 23:12		2.67	1.3	1.4	pCi/L	*	amk

Arizona license number: AZ0102

Energy Fuels Resources (USA) Inc.

Project ID:

Sample ID: CYN-MON-03-2021-Q3

Locator:

ACZ Sample ID: **L68260-03**

Date Sampled: 09/02/21 12:23

Date Received: 09/03/21

Sample Matrix: Groundwater

Combined Radium (total)

Prep Method:

Calculation (RA226 + RA228)

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Combined Radium (total)	10/25/21 11:35		1.8			pCi/L		calc

Gross Alpha Total, corrected

Prep Method:

Calculation

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Gross Alpha Total, corrected	10/25/21 11:35		3.7			pCi/L		calc

Gross Alpha, total

Prep Method:

M900.0

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Gross Alpha, total	09/22/21 0:17		6.5	4.1	12	pCi/L	*	fdw

Radium 226, total

Prep Method:

M903.1

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 226, total	10/22/21 0:05		1.8	0.23	0.77	pCi/L		fdw

Radium 228, total

Prep Method:

M904.0

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 228, total	10/03/21 23:24		1.5	0.86	1.9	pCi/L	*	ess

Uranium, Isotopic Total

Prep Method:

Eichrom ACW03

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Uranium 234, total	10/07/21 23:12		1.63	1.3	1.9	pCi/L	*	amk
Uranium 235, total	10/07/21 23:12		0.321	0.86	1.7	pCi/L	*	amk
Uranium 238, total	10/07/21 23:12		2.76	1.5	1.9	pCi/L	*	amk

Arizona license number: AZ0102

Energy Fuels Resources (USA) Inc.

Project ID:

Sample ID: CYN-MON-03-2021-Q3 DUP

Locator:

ACZ Sample ID: **L68260-04**

Date Sampled: 09/02/21 12:23

Date Received: 09/03/21

Sample Matrix: Groundwater

Combined Radium (total)

Prep Method:

Calculation (RA226 + RA228)

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Combined Radium (total)	10/25/21 11:35		4.8			pCi/L		calc

Gross Alpha Total, corrected

Prep Method:

Calculation

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Gross Alpha Total, corrected	10/25/21 11:35		2.4			pCi/L		calc

Gross Alpha, total

Prep Method:

M900.0

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Gross Alpha, total	09/22/21 0:18		9.5	4.9	12	pCi/L	*	fdw

Radium 226, total

Prep Method:

M903.1

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 226, total	10/22/21 0:07		1.8	0.22	0.78	pCi/L		fdw

Radium 228, total

Prep Method:

M904.0

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 228, total	10/03/21 23:24		3	1.3	2.8	pCi/L	*	ess

Uranium, Isotopic Total

Prep Method:

Eichrom ACW03

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Uranium 234, total	10/07/21 23:12		3.29	1.5	1.9	pCi/L	*	amk
Uranium 235, total	10/07/21 23:12		-0.0965	0.71	1.6	pCi/L	*	amk
Uranium 238, total	10/07/21 23:12		3.86	1.5	1.5	pCi/L	*	amk

Arizona license number: AZ0102

Report Header Explanations

<i>Batch</i>	A distinct set of samples analyzed at a specific time
<i>Error(+/-)</i>	Calculated sample specific uncertainty
<i>Found</i>	Value of the QC Type of interest
<i>Limit</i>	Upper limit for RPD, in %.
<i>LCL</i>	Lower Control Limit, in % (except for LCSS, mg/Kg)
<i>LLD</i>	Calculated sample specific Lower Limit of Detection
<i>PCN/SCN</i>	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
<i>PQL</i>	Practical Quantitation Limit
<i>QC</i>	True Value of the Control Sample or the amount added to the Spike
<i>Rec</i>	Amount of the true value or spike added recovered, in % (except for LCSS, mg/Kg)
<i>RER</i>	Relative Error Ratio, calculation used for Dup. QC taking into account the error factor.
<i>RPD</i>	Relative Percent Difference, calculation used for Duplicate QC Types
<i>UCL</i>	Upper Control Limit, in % (except for LCSS, mg/Kg)
<i>Sample</i>	Value of the Sample of interest

QC Sample Types

<i>DUP</i>	Sample Duplicate	<i>MS/MSD</i>	Matrix Spike/Matrix Spike Duplicate
<i>LCSS</i>	Laboratory Control Sample - Soil	<i>PBS</i>	Prep Blank - Soil
<i>LCSW</i>	Laboratory Control Sample - Water	<i>PBW</i>	Prep Blank - Water

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Matrix Spikes	Determines sample matrix interferences, if any.

ACZ Qualifiers (Qual)

H	Analysis exceeded method hold time.
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Method Prefix Reference

M	EPA methodology, including those under SDWA, CWA, and RCRA
SM	Standard Methods for the Examination of Water and Wastewater.
D	ASTM
RP	DOE
ESM	DOE/ESM

Comments

- (1) Solid matrices are reported on a dry weight basis.
- (2) Preparation method: "Method" indicates preparation defined in analytical method.
- (3) QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
- (4) An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.

For a complete list of ACZ's Extended Qualifiers, please click:

<https://acz.com/wp-content/uploads/2019/04/Ext-Qual-List.pdf>

ACZ Project ID: **L68260**

EFRC

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Gross Alpha, total M900.0 **Units: pCi/L**

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG527139																
WG527139PBW	PBW	09/22/21				1	3.7	.3	8.7	5.2	97	67	144	7.4		
WG527139LCSWA	LCSW	09/22/21	PCN62436	100				97	1.9	21						
L68227-02DUP	DUP-RPD	09/22/21			24	5.9	21	1.3	1.9	21				179	20	N1
L68227-02DUP	DUP-RER	09/22/21			24	5.9	21	1.3	1.9	21				3.66	2	N1
L68228-02MSA	MS	09/22/21	PCN62436	100	-0.59	1.5	11	66	9.4	14	67	67	144			
L68384-01DUP	DUP-RER	09/22/21			2.6	2.4	9	5.1	3	8.4				0.65	2	
L68384-01DUP	DUP-RPD	09/22/21			2.6	2.4	9	5.1	3	8.4				65	20	RG

Radium 226, total M903.1 **Units: pCi/L**

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG529377																
WG529377LCSW	LCSW	10/22/21	PCN64374	20				22	0.58	0.3	110	43	148			
WG529377PBW	PBW	10/22/21						.04	0.07	0.48				0.96		
L68280-01DUP	DUP-RPD	10/22/21			0.47	0.1	0.3	.39	0.09	0.36				19	20	
L68284-04MS	MS	10/22/21	PCN64374	20	0.03	0.05	0.3	18	0.46	0.22	90	43	148			
L68284-05DUP	DUP-RPD	10/22/21			0.14	0.08	0.44	.03	0.08	0.43				129	20	RG
L68284-05DUP	DUP-RER	10/22/21			0.14	0.08	0.44	.03	0.08	0.43				0.97	2	

Radium 228, total M904.0 **Units: pCi/L**

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG528025																
WG528025LCSW	LCSW	10/03/21	PCN63356	9.4				8.4	1.4	0.85	89	47	123			
WG528025PBW	PBW	10/03/21						1	0.51	0.48				0.96		B1 B7 BF NIA
L68183-01DUP	DUP-RPD	10/03/21			5.2	1.2	1	6.3	1.1	0.83				19	20	
L68277-04DUP	DUP-RER	10/07/21			2.2	1.5	3.6	.03	1.1	2.6				1.17	2	
L68277-04DUP	DUP-RPD	10/07/21			2.2	1.5	3.6	.03	1.1	2.6				195	20	RG
L68277-01MS	MS	10/07/21	PCN63356	9.39	-0.16	0.72	1.6	7.1	1.5	2.4	77	47	123			

EFRC

 ACZ Project ID: **L68260**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

U-232

Eichrom ACW03

Units: %

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG527965																
WG527965LCSW	LCSW	10/06/21	RC210601-11				30	60	130	30						
L68260-04DUP	DUP-RPD	10/07/21		92	130	30								44	20	
L68260-04DUP	DUP-RPD	10/07/21		92	130	30		59	130	30					20	
L68260-04DUP	DUP-RER	10/07/21		92	130	30		59	130	30					20	
L68260-03MS	MS	10/07/21	RC210601-11				30	68	130	30						
WG527965PBW	PBW	10/08/21		71	130			76	130	30			60			
L68097-01DUP	DUP-RPD	10/08/21		80	130	30		75	130	30					20	
L68097-01DUP	DUP-RER	10/08/21		80	130	30		75	130	30					20	
L68097-01DUP	DUP-RPD	10/08/21		80	130	30								6	20	

U-234

Eichrom ACW03

Units: pCi/L

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG527965																
WG527965LCSW	LCSW	10/06/21	RC210601-11	98				97	13	2.2	99	77	122			
L68260-04DUP	DUP-RPD	10/07/21		3.29	1.5	1.9		3.36	1.7	2				2	20	
L68260-03MS	MS	10/07/21	RC210601-11	98	1.63	1.3	1.9	113	14	1.6	114	77	122			
WG527965PBW	PBW	10/08/21						1.05	1.4	2.3			4.6			
L68097-01DUP	DUP-RPD	10/08/21		4.76	2	2.3		5.21	1.9	2.1				9	20	

EFRC

ACZ Project ID: **L68260**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

U-235

Eichrom ACW03

Units: pCi/L

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG527965																
WG527965LCSW	LCSW	10/06/21	RC210601-11	4.49				5.93	2.3	2	132	42	136			
L68260-04DUP	DUP-RER	10/07/21			-0.0965	0.71	1.6	.377	0.91	1.8				0.41	2	
L68260-04DUP	DUP-RPD	10/07/21			-0.0965	0.71	1.6	.377	0.91	1.8				338	20	RG
L68260-03MS	MS	10/07/21	RC210601-11	4.49	0.321	0.86	1.7	3.87	1.7	1.5	79	42	136			
WG527965PBW	PBW	10/08/21						.329	1	1.9			3.8			
L68097-01DUP	DUP-RER	10/08/21			0.68	0.68	0.85	-585	0.91	2.2				1.11	2	
L68097-01DUP	DUP-RPD	10/08/21			0.68	0.68	0.85	-585	0.91	2.2				2663	20	RG

U-238

Eichrom ACW03

Units: pCi/L

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG527965																
WG527965LCSW	LCSW	10/06/21	RC210601-11	97.5				105	14	2.2	108	87	124			
L68260-04DUP	DUP-RPD	10/07/21			3.86	1.5	1.5	1.83	1.4	1.8				71	20	RG
L68260-04DUP	DUP-RER	10/07/21			3.86	1.5	1.5	1.83	1.4	1.8				0.99	2	
L68260-03MS	MS	10/07/21	RC210601-11	97.5	2.76	1.5	1.9	112	14	0.36	112	87	124			
WG527965PBW	PBW	10/08/21						1.58	1.2	1.8			3.6			
L68097-01DUP	DUP-RPD	10/08/21			4.57	1.7	1.5	5.45	2	2.1				18	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L68260**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L68260-01	WG527139	Gross Alpha, total	M900.0	N1	See Case Narrative.
	WG528025	Radium 228, total	M904.0	BF	Target analyte in prep / method blank at or above the acceptance criteria. Target analyte was not detected in the sample [$<$ MDL].
	WG527965	Uranium 235, total	Eichrom ACW03	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
		Uranium 238, total	Eichrom ACW03	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
L68260-02	WG527139	Gross Alpha, total	M900.0	N1	See Case Narrative.
	WG528025	Radium 228, total	M904.0	BF	Target analyte in prep / method blank at or above the acceptance criteria. Target analyte was not detected in the sample [$<$ MDL].
	WG527965	Uranium 235, total	Eichrom ACW03	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
		Uranium 238, total	Eichrom ACW03	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
L68260-03	WG527139	Gross Alpha, total	M900.0	N1	See Case Narrative.
	WG528025	Radium 228, total	M904.0	BF	Target analyte in prep / method blank at or above the acceptance criteria. Target analyte was not detected in the sample [$<$ MDL].
	WG527965	Uranium 235, total	Eichrom ACW03	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
		Uranium 238, total	Eichrom ACW03	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
L68260-04	WG527139	Gross Alpha, total	M900.0	N1	See Case Narrative.
	WG528025	Radium 228, total	M904.0	B1	Target analyte detected in prep / method blank at or above the method reporting limit. See Case Narrative.
			M904.0	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
	WG527965	Uranium 235, total	Eichrom ACW03	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
Uranium 238, total		Eichrom ACW03	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.	

Energy Fuels Resources (USA) Inc.ACZ Project ID: **L68260**

Radiochemistry

The following parameters are not offered for certification or are not covered by AZ certificate #AZ0102.

Uranium 234, total	Eichrom ACW03
Uranium 235, total	Eichrom ACW03
Uranium 238, total	Eichrom ACW03

The following parameters are not offered for certification or are not covered by NELAC certificate #ACZ.

Uranium 234, total	Eichrom ACW03
Uranium 235, total	Eichrom ACW03
Uranium 238, total	Eichrom ACW03

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L68260
 Date Received: 09/03/2021 12:13
 Received By: mjj
 Date Printed: 9/7/2021

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody form or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?		X	
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody form complete and accurate?	X		
7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples? A change was made in the Report to: Name and Remarks section prior to ACZ custody. A change was made in the Report to: Name and Remarks section prior to ACZ custody. A change was made in the Report to: Name and Remarks section prior to ACZ custody. A change was made in the Report to: Name and Remarks section prior to ACZ custody. A change was made in the Report to: Name and Remarks section prior to ACZ custody.	X		

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits? ¹	X		
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?	X		

NA indicates Not Applicable

Chain of Custody Related Remarks

Client Contact Remarks

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L68260
 Date Received: 09/03/2021 12:13
 Received By: mjj
 Date Printed: 9/7/2021

Shipping Containers

Cooler Id	Temp (°C)	Temp Criteria (°C)	Rad (µR/Hr)	Custody Seal Intact?
NA35845	5.5	<=6.0	15	Yes
NA35846	4	<=6.0	15	Yes

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

¹ The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na2S2O3 preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).



Laboratories, Inc. L68260

CHAIN of CUSTODY

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Report to:

Name: Kathy Weinel
Company: Energy Fuels
E-mail: kweinel@energyfuels.com

Address: 225 Union Blvd. Suite 600
Lakewood, CO 80228
Telephone: 303-389-4134

Copy of Report to:

Name:
Company:

E-mail:
Telephone:

Invoice to:

Name: Kathy Weinel
Company: Energy Fuels
E-mail: kweinel@energyfuels.com

Address: 225 Union Blvd, Suite 600
Lakewood, CO 80228
Telephone: 303-389-4134

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES [X] NO []

If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified

Are samples for SDWA Compliance Monitoring? Yes [] No [X]

If yes, please include state forms. Results will be reported to PQL for Colorado.

Sampler's Name: Matt Germansen Sampler's Site Information State AZ Zip code Time Zone

*Sampler's Signature: [Signature] I attest to the authenticity and validity of this sample. I understand that intentionally mislabeling the time/date/location or tampering with the sample in anyway, is considered fraud and punishable by State Law.

PROJECT INFORMATION

ANALYSES REQUESTED (attach list or use quote number)

Quote #: PP-GW-INDAPP

PO#: 8047852

Reporting state for compliance testing:

Check box if samples include NRC licensed material?

PP-GW-INDAPP

SAMPLE IDENTIFICATION DATE:TIME Matrix

Table with 3 columns: SAMPLE IDENTIFICATION, DATE:TIME, Matrix. Rows include CYN-MON-01-2021-Q3, CYN-MON-02-2021-Q3, CYN-MON-03-2021-Q3, CYN-MON-03-2021-Q3 Dup.

of Containers

See QUOTE

Matrix SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS

All Samples Ran Normal TAT for PP-GW-INDAPP

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY: DATE:TIME RECEIVED BY: DATE:TIME

Matt Germansen 9/2/21: 1500 [Signature] 9/2/21 12:14



January 17, 2022

Report to:

Kathy Weinel

Energy Fuels Resources (USA) Inc.

225 Union Blvd. ,Suite 600

Lakewood, CO 80228

Bill to:

Accounts Payable

Energy Fuels Resources (USA) Inc.

225 Union Blvd. ,Suite 600

Lakewood, CO 80228

Project ID:

ACZ Project ID: L70399

Kathy Weinel:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on December 10, 2021. This project has been assigned to ACZ's project number, L70399. Please reference this number in all future inquiries.

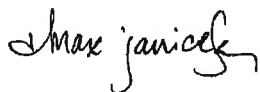
All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L70399. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after February 16, 2022. If the samples are determined to be hazardous, additional charges apply for disposal (typically \$11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.



Max Janicek has reviewed and approved this report.



Energy Fuels Resources (USA) Inc.

Project ID:

Sample ID: MW-01_12072021

ACZ Sample ID: **L70399-01**

Date Sampled: 12/07/21 15:32

Date Received: 12/10/21

Sample Matrix: Groundwater

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, dissolved	M200.8 ICP-MS	1	0.0109			mg/L	0.0004	0.002	01/12/22 18:11	kja/mf m
Arsenic, dissolved	M200.8 ICP-MS	1	0.158			mg/L	0.0002	0.001	01/11/22 13:33	kja/mf m
Barium, dissolved	M200.7 ICP	1	0.0253	B		mg/L	0.007	0.035	12/29/21 20:32	kja
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	01/11/22 13:33	kja/mf m
Cadmium, dissolved	M200.8 ICP-MS	1	<0.00005	U		mg/L	0.00005	0.00025	01/11/22 13:33	kja/mf m
Calcium, dissolved	M200.7 ICP	1	115			mg/L	0.1	0.5	12/29/21 20:32	kja
Chromium, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	12/29/21 20:32	kja
Lead, dissolved	M200.8 ICP-MS	1	0.00025	B		mg/L	0.0001	0.0005	01/11/22 13:33	kja/mf m
Magnesium, dissolved	M200.7 ICP	1	57.2			mg/L	0.2	1	12/29/21 20:32	kja
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U	*	mg/L	0.0002	0.001	12/17/21 9:02	mlh
Nickel, dissolved	M200.7 ICP	1	0.206			mg/L	0.008	0.04	12/29/21 20:32	kja
Potassium, dissolved	M200.7 ICP	1	1.83			mg/L	0.2	1	12/29/21 20:32	kja
Selenium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.00025	01/11/22 13:33	kja/mf m
Sodium, dissolved	M200.7 ICP	1	3.23			mg/L	0.2	1	12/29/21 20:32	kja
Thallium, dissolved	M200.8 ICP-MS	1	0.00215			mg/L	0.0001	0.0005	01/11/22 13:33	kja/mf m
Uranium, dissolved	M200.8 ICP-MS	1	0.0198			mg/L	0.0001	0.0005	01/11/22 13:33	kja/mf m

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	219			mg/L	2	20	12/17/21 0:00	emk
Carbonate as CaCO3		1	10.1	B		mg/L	2	20	12/17/21 0:00	emk
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	12/17/21 0:00	emk
Total Alkalinity		1	229			mg/L	2	20	12/17/21 0:00	emk
Conductivity @25C	SM2510B	1	910			umhos/cm	1	10	12/17/21 8:00	emk
Fluoride	SM4500F-C	1	0.15	B		mg/L	0.15	0.35	12/29/21 14:47	eep
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	<0.02	U		mg/L	0.02	0.1	12/29/21 2:41	pjb
pH (lab)	SM4500H+ B									
pH		1	8.4	H		units	0.1	0.1	12/17/21 0:00	emk
pH measured at		1	22.7			C	0.1	0.1	12/17/21 0:00	emk
Residue, Filterable (TDS) @180C	SM2540C	1	634			mg/L	20	40	12/13/21 19:23	jck
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	25	273		*	mg/L	25	125	12/30/21 16:32	wtc

Arizona license number: AZ0102

Energy Fuels Resources (USA) Inc.

Project ID:

Sample ID: MW-02_12092021

ACZ Sample ID: **L70399-02**

Date Sampled: 12/09/21 12:05

Date Received: 12/10/21

Sample Matrix: Groundwater

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	01/12/22 18:13	kja/mf m
Arsenic, dissolved	M200.8 ICP-MS	1	0.00254			mg/L	0.0002	0.001	01/11/22 13:35	kja/mf m
Barium, dissolved	M200.7 ICP	1	0.0459			mg/L	0.007	0.035	12/29/21 20:35	kja
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	01/11/22 13:35	kja/mf m
Cadmium, dissolved	M200.8 ICP-MS	1	<0.00005	U		mg/L	0.00005	0.00025	01/11/22 13:35	kja/mf m
Calcium, dissolved	M200.7 ICP	1	80.7			mg/L	0.1	0.5	12/29/21 20:35	kja
Chromium, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	12/29/21 20:35	kja
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	01/11/22 13:35	kja/mf m
Magnesium, dissolved	M200.7 ICP	1	39.0			mg/L	0.2	1	12/29/21 20:35	kja
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U	*	mg/L	0.0002	0.001	12/17/21 9:03	mlh
Nickel, dissolved	M200.7 ICP	1	0.0159	B		mg/L	0.008	0.04	12/29/21 20:35	kja
Potassium, dissolved	M200.7 ICP	1	3.85			mg/L	0.2	1	12/29/21 20:35	kja
Selenium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.00025	01/11/22 13:35	kja/mf m
Sodium, dissolved	M200.7 ICP	1	2.84			mg/L	0.2	1	12/29/21 20:35	kja
Thallium, dissolved	M200.8 ICP-MS	1	0.00074			mg/L	0.0001	0.0005	01/11/22 13:35	kja/mf m
Uranium, dissolved	M200.8 ICP-MS	1	0.00476			mg/L	0.0001	0.0005	01/11/22 13:35	kja/mf m

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	203			mg/L	2	20	12/17/21 0:00	emk
Carbonate as CaCO3		1	16.2	B		mg/L	2	20	12/17/21 0:00	emk
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	12/17/21 0:00	emk
Total Alkalinity		1	219			mg/L	2	20	12/17/21 0:00	emk
Conductivity @25C	SM2510B	1	654			umhos/cm	1	10	12/17/21 8:11	emk
Fluoride	SM4500F-C	1	<0.15	U		mg/L	0.15	0.35	12/29/21 14:55	eep
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	<0.02	U		mg/L	0.02	0.1	12/29/21 2:42	pjb
pH (lab)	SM4500H+ B									
pH		1	8.5	H		units	0.1	0.1	12/17/21 0:00	emk
pH measured at		1	22.7			C	0.1	0.1	12/17/21 0:00	emk
Residue, Filterable (TDS) @180C	SM2540C	1	410			mg/L	20	40	12/13/21 19:26	jck
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	5	118		*	mg/L	5	25	12/30/21 16:17	wtc

Arizona license number: AZ0102

Energy Fuels Resources (USA) Inc.

Project ID:

Sample ID: MW-03_12082021

ACZ Sample ID: **L70399-03**

Date Sampled: 12/08/21 14:54

Date Received: 12/10/21

Sample Matrix: Groundwater

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	01/12/22 18:15	kja/mf m
Arsenic, dissolved	M200.8 ICP-MS	1	0.0120			mg/L	0.0002	0.001	01/11/22 13:37	kja/mf m
Barium, dissolved	M200.7 ICP	1	0.0072	B		mg/L	0.007	0.035	12/29/21 20:44	kja
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	01/11/22 13:37	kja/mf m
Cadmium, dissolved	M200.8 ICP-MS	1	<0.00005	U		mg/L	0.00005	0.00025	01/11/22 13:37	kja/mf m
Calcium, dissolved	M200.7 ICP	1	186			mg/L	0.1	0.5	12/29/21 20:44	kja
Chromium, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	12/29/21 20:44	kja
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	01/11/22 13:37	kja/mf m
Magnesium, dissolved	M200.7 ICP	1	88.4			mg/L	0.2	1	12/29/21 20:44	kja
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U	*	mg/L	0.0002	0.001	12/17/21 9:04	mlh
Nickel, dissolved	M200.7 ICP	1	0.193			mg/L	0.008	0.04	12/29/21 20:44	kja
Potassium, dissolved	M200.7 ICP	1	2.33			mg/L	0.2	1	12/29/21 20:44	kja
Selenium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.00025	01/11/22 13:37	kja/mf m
Sodium, dissolved	M200.7 ICP	1	3.73			mg/L	0.2	1	12/29/21 20:44	kja
Thallium, dissolved	M200.8 ICP-MS	1	0.00030	B		mg/L	0.0001	0.0005	01/11/22 13:37	kja/mf m
Uranium, dissolved	M200.8 ICP-MS	1	0.00522			mg/L	0.0001	0.0005	01/11/22 13:37	kja/mf m

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	157			mg/L	2	20	12/17/21 0:00	emk
Carbonate as CaCO3		1	<2	U		mg/L	2	20	12/17/21 0:00	emk
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	12/17/21 0:00	emk
Total Alkalinity		1	157		*	mg/L	2	20	12/17/21 0:00	emk
Conductivity @25C	SM2510B	1	1360		*	umhos/cm	1	10	12/17/21 8:21	emk
Fluoride	SM4500F-C	1	<0.15	U		mg/L	0.15	0.35	12/29/21 15:03	eep
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	<0.02	U		mg/L	0.02	0.1	12/29/21 2:43	pjb
pH (lab)	SM4500H+ B									
pH		1	8.1	H	*	units	0.1	0.1	12/17/21 0:00	emk
pH measured at		1	22.7			C	0.1	0.1	12/17/21 0:00	emk
Residue, Filterable (TDS) @180C	SM2540C	1	1080			mg/L	20	40	12/13/21 19:28	jck
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	25	636		*	mg/L	25	125	12/30/21 16:25	wtc

Arizona license number: AZ0102

Energy Fuels Resources (USA) Inc.

Project ID:

Sample ID: RW-01_12082021

ACZ Sample ID: **L70399-04**

Date Sampled: 12/08/21 16:38

Date Received: 12/10/21

Sample Matrix: Groundwater

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	01/14/22 12:10	kja
Arsenic, dissolved	M200.8 ICP-MS	1	0.00024	B		mg/L	0.0002	0.001	01/11/22 13:43	kja/mf m
Barium, dissolved	M200.7 ICP	1	0.0888			mg/L	0.007	0.035	12/29/21 20:47	kja
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	01/11/22 13:43	kja/mf m
Cadmium, dissolved	M200.8 ICP-MS	1	<0.00005	U		mg/L	0.00005	0.00025	01/11/22 13:43	kja/mf m
Calcium, dissolved	M200.7 ICP	1	43.7			mg/L	0.1	0.5	12/29/21 20:47	kja
Chromium, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	12/29/21 20:47	kja
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	01/11/22 13:43	kja/mf m
Magnesium, dissolved	M200.7 ICP	1	30.0			mg/L	0.2	1	12/29/21 20:47	kja
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U	*	mg/L	0.0002	0.001	12/17/21 9:09	mlh
Nickel, dissolved	M200.7 ICP	1	0.0112	B		mg/L	0.008	0.04	12/29/21 20:47	kja
Potassium, dissolved	M200.7 ICP	1	2.34			mg/L	0.2	1	12/29/21 20:47	kja
Selenium, dissolved	M200.8 ICP-MS	1	0.00587			mg/L	0.0001	0.00025	01/11/22 13:43	kja/mf m
Sodium, dissolved	M200.7 ICP	1	5.96			mg/L	0.2	1	12/29/21 20:47	kja
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	01/11/22 13:43	kja/mf m
Uranium, dissolved	M200.8 ICP-MS	1	0.0157			mg/L	0.0001	0.0005	01/11/22 13:43	kja/mf m

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	190			mg/L	2	20	12/18/21 0:00	eep
Carbonate as CaCO3		1	13.0	B		mg/L	2	20	12/18/21 0:00	eep
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	12/18/21 0:00	eep
Total Alkalinity		1	203			mg/L	2	20	12/18/21 0:00	eep
Conductivity @25C	SM2510B	1	441			umhos/cm	1	10	12/18/21 22:36	eep
Fluoride	SM4500F-C	1	0.29	B		mg/L	0.15	0.35	12/29/21 15:11	eep
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	0.091	B		mg/L	0.02	0.1	12/29/21 2:44	pjb
pH (lab)	SM4500H+ B									
pH		1	8.4	H		units	0.1	0.1	12/18/21 0:00	eep
pH measured at		1	22.2			C	0.1	0.1	12/18/21 0:00	eep
Residue, Filterable (TDS) @180C	SM2540C	1	238			mg/L	20	40	12/13/21 19:34	jck
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	1	22.0		*	mg/L	1	5	12/30/21 16:00	wtc

Arizona license number: **AZ0102**

Energy Fuels Resources (USA) Inc.

Project ID:
Sample ID: RW-01DUP_12082021

ACZ Sample ID: **L70399-05**
Date Sampled: 12/08/21 16:38
Date Received: 12/10/21
Sample Matrix: Groundwater

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	01/12/22 18:23	kja/mf m
Arsenic, dissolved	M200.8 ICP-MS	1	0.00022	B		mg/L	0.0002	0.001	01/11/22 13:45	kja/mf m
Barium, dissolved	M200.7 ICP	1	0.0872			mg/L	0.007	0.035	12/29/21 20:50	kja
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	01/11/22 13:45	kja/mf m
Cadmium, dissolved	M200.8 ICP-MS	1	<0.00005	U		mg/L	0.00005	0.00025	01/11/22 13:45	kja/mf m
Calcium, dissolved	M200.7 ICP	1	43.5			mg/L	0.1	0.5	12/29/21 20:50	kja
Chromium, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	12/29/21 20:50	kja
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	01/11/22 13:45	kja/mf m
Magnesium, dissolved	M200.7 ICP	1	29.6			mg/L	0.2	1	12/29/21 20:50	kja
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U	*	mg/L	0.0002	0.001	12/17/21 9:10	mlh
Nickel, dissolved	M200.7 ICP	1	0.0126	B		mg/L	0.008	0.04	12/29/21 20:50	kja
Potassium, dissolved	M200.7 ICP	1	2.38			mg/L	0.2	1	12/29/21 20:50	kja
Selenium, dissolved	M200.8 ICP-MS	1	0.00581			mg/L	0.0001	0.00025	01/11/22 13:45	kja/mf m
Sodium, dissolved	M200.7 ICP	1	5.97			mg/L	0.2	1	12/29/21 20:50	kja
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	01/11/22 13:45	kja/mf m
Uranium, dissolved	M200.8 ICP-MS	1	0.0154			mg/L	0.0001	0.0005	01/11/22 13:45	kja/mf m

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	211			mg/L	2	20	12/18/21 0:00	eep
Carbonate as CaCO3		1	11.5	B		mg/L	2	20	12/18/21 0:00	eep
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	12/18/21 0:00	eep
Total Alkalinity		1	222			mg/L	2	20	12/18/21 0:00	eep
Conductivity @25C	SM2510B	1	440			umhos/cm	1	10	12/18/21 22:47	eep
Fluoride	SM4500F-C	1	0.29	B		mg/L	0.15	0.35	12/29/21 15:19	eep
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	0.089	B		mg/L	0.02	0.1	12/29/21 2:46	pjb
pH (lab)	SM4500H+ B									
pH		1	8.4	H		units	0.1	0.1	12/18/21 0:00	eep
pH measured at		1	22.1			C	0.1	0.1	12/18/21 0:00	eep
Residue, Filterable (TDS) @180C	SM2540C	1	238			mg/L	20	40	12/13/21 19:36	jck
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	1	20.3		*	mg/L	1	5	12/30/21 16:00	wtc

Arizona license number: AZ0102

EFRC

ACZ Project ID: **L70399**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Alkalinity as CaCO3

SM2320B - Titration

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533738													
WG533738LCSW3	LCSW	12/16/21 16:16	WC211215-1	820.0001		749.8	mg/L	91	90	110			
WG533738PBW1	PBW	12/16/21 16:24				2.2	mg/L		-20	20			
WG533738LCSW6	LCSW	12/16/21 20:46	WC211215-1	820.0001		777	mg/L	95	90	110			
WG533738PBW2	PBW	12/16/21 20:54				2.2	mg/L		-20	20			
WG533738LCSW12	LCSW	12/17/21 4:52	WC211215-1	820.0001		771.9	mg/L	94	90	110			
WG533738PBW4	PBW	12/17/21 5:00				3.1	mg/L		-20	20			
L70399-03DUP	DUP	12/17/21 8:31			157	157.5	mg/L				0	20	
WG533738LCSW15	LCSW	12/17/21 8:51	WC211215-1	820.0001		798.1	mg/L	97	90	110			
WG533861													
WG533861PBW1	PBW	12/18/21 14:35				6.9	mg/L		-20	20			
WG533861LCSW3	LCSW	12/18/21 14:57	WC211215-1	820.0001		786	mg/L	96	90	110			
WG533861LCSW6	LCSW	12/18/21 17:44	WC211215-1	820.0001		772.5	mg/L	94	90	110			
WG533861PBW2	PBW	12/18/21 17:51				5.4	mg/L		-20	20			
WG533861LCSW9	LCSW	12/18/21 20:36	WC211215-1	820.0001		765.3	mg/L	93	90	110			
WG533861PBW3	PBW	12/18/21 20:43				6	mg/L		-20	20			
L70405-02DUP	DUP	12/18/21 23:40			364	347.1	mg/L				5	20	
WG533861LCSW12	LCSW	12/19/21 0:01	WC211215-1	820.0001		794.8	mg/L	97	90	110			
WG533861PBW4	PBW	12/19/21 0:09				5.5	mg/L		-20	20			
WG533861LCSW15	LCSW	12/19/21 4:21	WC211215-1	820.0001		795.8	mg/L	97	90	110			

Antimony, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534896													
WG534896ICV	ICV	01/12/22 18:04	MS220105-1	.0201		.02011	mg/L	100	90	110			
WG534896ICB	ICB	01/12/22 18:06				U	mg/L		-0.00088	0.00088			
WG534896LFB	LFB	01/12/22 18:08	MS211216-3	.01		.00978	mg/L	98	85	115			
L70399-03AS	AS	01/12/22 18:17	MS211216-3	.01	U	.01135	mg/L	114	70	130			
L70399-03ASD	ASD	01/12/22 18:19	MS211216-3	.01	U	.01152	mg/L	115	70	130	1	20	
WG534981													
WG534981ICV	ICV	01/14/22 12:05	MS220105-1	.0201		.01959	mg/L	97	90	110			
WG534981ICB	ICB	01/14/22 12:07				.00055	mg/L		-0.00088	0.00088			
WG534981LFB	LFB	01/14/22 12:08	MS211216-3	.01		.0109	mg/L	109	85	115			
L70424-01AS	AS	01/14/22 12:22	MS211216-3	.01	U	.01004	mg/L	100	70	130			
L70424-01ASD	ASD	01/14/22 12:23	MS211216-3	.01	U	.01045	mg/L	105	70	130	4	20	

Arsenic, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534781													
WG534781ICV	ICV	01/11/22 13:26	MS220105-1	.05		.0519	mg/L	104	90	110			
WG534781ICB	ICB	01/11/22 13:29				U	mg/L		-0.00044	0.00044			
WG534781LFB	LFB	01/11/22 13:31	MS211216-3	.05005		.04976	mg/L	99	85	115			
L70399-03AS	AS	01/11/22 13:39	MS211216-3	.05005	.012	.06361	mg/L	103	70	130			
L70399-03ASD	ASD	01/11/22 13:41	MS211216-3	.05005	.012	.06581	mg/L	108	70	130	3	20	

EFRC

ACZ Project ID: **L70399**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Barium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534225													
WG534225ICV	ICV	12/29/21 20:11	II211214-2	2		2.048	mg/L	102	95	105			
WG534225ICB	ICB	12/29/21 20:16				U	mg/L		-0.021	0.021			
WG534225LFB	LFB	12/29/21 20:29	II211228-2	.5		.4965	mg/L	99	85	115			
L70399-02AS	AS	12/29/21 20:38	II211228-2	.5	.0459	.5578	mg/L	102	85	115			
L70399-02ASD	ASD	12/29/21 20:41	II211228-2	.5	.0459	.5504	mg/L	101	85	115	1	20	

Beryllium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534781													
WG534781ICV	ICV	01/11/22 13:26	MS220105-1	.05		.052297	mg/L	105	90	110			
WG534781ICB	ICB	01/11/22 13:29				U	mg/L		-0.000176	0.000176			
WG534781LFB	LFB	01/11/22 13:31	MS211216-3	.05005		.047616	mg/L	95	85	115			
L70399-03AS	AS	01/11/22 13:39	MS211216-3	.05005	U	.051361	mg/L	103	70	130			
L70399-03ASD	ASD	01/11/22 13:41	MS211216-3	.05005	U	.053335	mg/L	107	70	130	4	20	

Cadmium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534781													
WG534781ICV	ICV	01/11/22 13:26	MS220105-1	.05		.05315	mg/L	106	90	110			
WG534781ICB	ICB	01/11/22 13:29				U	mg/L		-0.00011	0.00011			
WG534781LFB	LFB	01/11/22 13:31	MS211216-3	.05005		.048625	mg/L	97	85	115			
L70399-03AS	AS	01/11/22 13:39	MS211216-3	.05005	U	.05288	mg/L	106	70	130			
L70399-03ASD	ASD	01/11/22 13:41	MS211216-3	.05005	U	.055159	mg/L	110	70	130	4	20	

Calcium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534225													
WG534225ICV	ICV	12/29/21 20:11	II211214-2	100		100.46	mg/L	100	95	105			
WG534225ICB	ICB	12/29/21 20:16				U	mg/L		-0.3	0.3			
WG534225LFB	LFB	12/29/21 20:29	II211228-2	67.98808		68.07	mg/L	100	85	115			
L70399-02AS	AS	12/29/21 20:38	II211228-2	67.98808	80.7	141.3	mg/L	89	85	115			
L70399-02ASD	ASD	12/29/21 20:41	II211228-2	67.98808	80.7	148.3	mg/L	99	85	115	5	20	

Chromium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534225													
WG534225ICV	ICV	12/29/21 20:11	II211214-2	2		1.975	mg/L	99	95	105			
WG534225ICB	ICB	12/29/21 20:16				U	mg/L		-0.06	0.06			
WG534225LFB	LFB	12/29/21 20:29	II211228-2	.5005		.478	mg/L	96	85	115			
L70399-02AS	AS	12/29/21 20:38	II211228-2	.5005	U	.502	mg/L	100	85	115			
L70399-02ASD	ASD	12/29/21 20:41	II211228-2	.5005	U	.492	mg/L	98	85	115	2	20	

EFRC

ACZ Project ID: **L70399**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Conductivity @25C

SM2510B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533738													
WG533738LCSW2	LCSW	12/16/21 17:18	PCN64229	1409		1397	umhos/cm	99	90	110			
WG533738LCSW5	LCSW	12/16/21 20:32	PCN64229	1409		1399	umhos/cm	99	90	110			
WG533738LCSW8	LCSW	12/17/21 0:58	PCN64229	1409		1402	umhos/cm	100	90	110			
WG533738LCSW11	LCSW	12/17/21 4:40	PCN64229	1409		1395	umhos/cm	99	90	110			
L70399-03DUP	DUP	12/17/21 8:31			1360	1364	umhos/cm				0	20	
WG533738LCSW14	LCSW	12/17/21 8:38	PCN64229	1409		1388	umhos/cm	99	90	110			
WG533861													
WG533861LCSW2	LCSW	12/18/21 14:42	PCN64229	1409		1418	umhos/cm	101	90	110			
WG533861LCSW5	LCSW	12/18/21 17:31	PCN64229	1409		1415	umhos/cm	100	90	110			
WG533861LCSW8	LCSW	12/18/21 20:23	PCN64229	1409		1412	umhos/cm	100	90	110			
L70405-02DUP	DUP	12/18/21 23:40			6860	6940	umhos/cm				1	20	
WG533861LCSW11	LCSW	12/18/21 23:47	PCN64229	1409		1405	umhos/cm	100	90	110			
WG533861LCSW14	LCSW	12/19/21 4:06	PCN64229	1409		1402	umhos/cm	100	90	110			

Fluoride

SM4500F-C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534214													
WG534214ICV	ICV	12/29/21 13:53	WC211221-1	2.002		2.1	mg/L	105	90	110			
WG534214ICB	ICB	12/29/21 13:57				U	mg/L		-0.3	0.3			
WG534214LFB1	LFB	12/29/21 14:07	WC210803-9	5.02		5.02	mg/L	100	90	110			
L70398-01AS	AS	12/29/21 14:23	WC210803-9	5.02	.46	5.41	mg/L	99	90	110			
L70398-01ASD	ASD	12/29/21 14:31	WC210803-9	5.02	.46	5.46	mg/L	100	90	110	1	20	
L70399-05AS	AS	12/29/21 15:39	WC210803-9	5.02	.29	5.39	mg/L	102	90	110			
L70399-05ASD	ASD	12/29/21 15:47	WC210803-9	5.02	.29	5.49	mg/L	104	90	110	2	20	
WG534214LFB2	LFB	12/29/21 20:00	WC210803-9	5.02		5.24	mg/L	104	90	110			

Lead, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534781													
WG534781ICV	ICV	01/11/22 13:26	MS220105-1	.05		.05189	mg/L	104	90	110			
WG534781ICB	ICB	01/11/22 13:29				U	mg/L		-0.00022	0.00022			
WG534781LFB	LFB	01/11/22 13:31	MS211216-3	.05005		.04718	mg/L	94	85	115			
L70399-03AS	AS	01/11/22 13:39	MS211216-3	.05005	U	.05139	mg/L	103	70	130			
L70399-03ASD	ASD	01/11/22 13:41	MS211216-3	.05005	U	.0539	mg/L	108	70	130	5	20	

Magnesium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534225													
WG534225ICV	ICV	12/29/21 20:11	II211214-2	100		97.02	mg/L	97	95	105			
WG534225ICB	ICB	12/29/21 20:16				U	mg/L		-0.6	0.6			
WG534225LFB	LFB	12/29/21 20:29	II211228-2	49.99847		48.05	mg/L	96	85	115			
L70399-02AS	AS	12/29/21 20:38	II211228-2	49.99847	39	82.67	mg/L	87	85	115			
L70399-02ASD	ASD	12/29/21 20:41	II211228-2	49.99847	39	87.98	mg/L	98	85	115	6	20	

EFRC

ACZ Project ID: **L70399**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Mercury, dissolved M245.1 CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533707													
WG533707ICV	ICV	12/17/21 8:20	HG211213-3	.00501		.00524	mg/L	105	95	105			
WG533707ICB	ICB	12/17/21 8:21				U	mg/L		-0.0002	0.0002			
WG533686													
WG533686LRB	LRB	12/17/21 8:58				U	mg/L		-0.00044	0.00044			
WG533686LFB	LFB	12/17/21 8:59	HG211213-6	.002002		.00215	mg/L	107	85	115			
L70399-03LFM	LFM	12/17/21 9:05	HG211213-6	.002002	U	.00254	mg/L	127	85	115			M1
L70399-03LFMD	LFMD	12/17/21 9:06	HG211213-6	.002002	U	.00252	mg/L	126	85	115	1	20	M1

Nickel, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534225													
WG534225ICV	ICV	12/29/21 20:11	II211214-2	2		2.0202	mg/L	101	95	105			
WG534225ICB	ICB	12/29/21 20:16				U	mg/L		-0.024	0.024			
WG534225LFB	LFB	12/29/21 20:29	II211228-2	.5		.4982	mg/L	100	85	115			
L70399-02AS	AS	12/29/21 20:38	II211228-2	.5	.0159	.5309	mg/L	103	85	115			
L70399-02ASD	ASD	12/29/21 20:41	II211228-2	.5	.0159	.5223	mg/L	101	85	115	2	20	

Nitrate/Nitrite as N M353.2 - H2SO4 preserved

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534194													
WG534194ICV	ICV	12/29/21 1:17	WI211205-1	2.4161		2.361	mg/L	98	90	110			
WG534194ICB	ICB	12/29/21 1:18				U	mg/L		-0.02	0.02			
WG534197													
WG534197LFB	LFB	12/29/21 2:34	WI211001-5	2		2.082	mg/L	104	90	110			
L70398-01AS	AS	12/29/21 2:37	WI211001-5	2	.271	2.462	mg/L	110	90	110			
L70398-02DUP	DUP	12/29/21 2:39			.274	.274	mg/L				0	20	

pH (lab) SM4500H+ B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533738													
WG533738LCSW1	LCSW	12/16/21 17:16	PCN62948	6		6.1	units	102	5.9	6.1			
WG533738LCSW4	LCSW	12/16/21 20:30	PCN62948	6		6.1	units	102	5.9	6.1			
WG533738LCSW10	LCSW	12/17/21 4:38	PCN62948	6		6.1	units	102	5.9	6.1			
L70399-03DUP	DUP	12/17/21 8:31			8.1	8.1	units				0	20	
WG533738LCSW13	LCSW	12/17/21 8:36	PCN62948	6		6.1	units	102	5.9	6.1			
WG533861													
WG533861LCSW1	LCSW	12/18/21 14:40	PCN62948	6		6.1	units	102	5.9	6.1			
WG533861LCSW4	LCSW	12/18/21 17:29	PCN62948	6		6.1	units	102	5.9	6.1			
WG533861LCSW7	LCSW	12/18/21 20:21	PCN62948	6		6.1	units	102	5.9	6.1			
L70405-02DUP	DUP	12/18/21 23:40			8	8.1	units				1	20	
WG533861LCSW10	LCSW	12/18/21 23:45	PCN62948	6		6.1	units	102	5.9	6.1			
WG533861LCSW13	LCSW	12/19/21 4:05	PCN62948	6		6.1	units	102	5.9	6.1			

EFRC

ACZ Project ID: **L70399**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Potassium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534225													
WG534225ICV	ICV	12/29/21 20:11	II211214-2	20		19.96	mg/L	100	95	105			
WG534225ICB	ICB	12/29/21 20:16				U	mg/L		-0.6	0.6			
WG534225LFB	LFB	12/29/21 20:29	II211228-2	99.96008		98.6	mg/L	99	85	115			
L70399-02AS	AS	12/29/21 20:38	II211228-2	99.96008	3.85	98.44	mg/L	95	85	115			
L70399-02ASD	ASD	12/29/21 20:41	II211228-2	99.96008	3.85	109.6	mg/L	106	85	115	11	20	

Residue, Filterable (TDS) @180C SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533478													
WG533478PBW	PBW	12/13/21 19:00				U	mg/L		-20	20			
WG533478LCSW	LCSW	12/13/21 19:02	PCN64712	1000		992	mg/L	99	80	120			
L70399-03DUP	DUP	12/13/21 19:31			1080	1084	mg/L				0	10	
L70421-03DUP	DUP	12/13/21 20:00			342	350	mg/L				2	10	

Selenium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534781													
WG534781ICV	ICV	01/11/22 13:26	MS220105-1	.05		.05299	mg/L	106	90	110			
WG534781ICB	ICB	01/11/22 13:29				U	mg/L		-0.00022	0.00022			
WG534781LFB	LFB	01/11/22 13:31	MS211216-3	.05		.04834	mg/L	97	85	115			
L70399-03AS	AS	01/11/22 13:39	MS211216-3	.05	U	.0524	mg/L	105	70	130			
L70399-03ASD	ASD	01/11/22 13:41	MS211216-3	.05	U	.0548	mg/L	110	70	130	4	20	

Sodium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534225													
WG534225ICV	ICV	12/29/21 20:11	II211214-2	100		100.95	mg/L	101	95	105			
WG534225ICB	ICB	12/29/21 20:16				U	mg/L		-0.6	0.6			
WG534225LFB	LFB	12/29/21 20:29	II211228-2	100.0086		99.03	mg/L	99	85	115			
L70399-02AS	AS	12/29/21 20:38	II211228-2	100.0086	2.84	98.82	mg/L	96	85	115			
L70399-02ASD	ASD	12/29/21 20:41	II211228-2	100.0086	2.84	109.9	mg/L	107	85	115	11	20	

Sulfate D516-02/-07/-11 - TURBIDIMETRIC

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534306													
WG534306ICB	ICB	12/30/21 15:19				U	mg/L		-3	3			
WG534306ICV	ICV	12/30/21 15:19	WI211230-3	19.9		19.1	mg/L	96	90	110			
WG534306LFB	LFB	12/30/21 15:58	WI211230-5	9.95		9.6	mg/L	96	90	110			
L70403-01DUP	DUP	12/30/21 16:02			6.8	3.8	mg/L				57	20	RA
L70401-03AS	AS	12/30/21 16:25	SO4TURB25X	1000	87100	87802.8	mg/L	70	90	110			M3

EFRC

ACZ Project ID: **L70399**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Thallium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534781													
WG534781ICV	ICV	01/11/22 13:26	MS220105-1	.05		.05178	mg/L	104	90	110			
WG534781ICB	ICB	01/11/22 13:29				U	mg/L		-0.00022	0.00022			
WG534781LFB	LFB	01/11/22 13:31	MS211216-3	.05		.04711	mg/L	94	85	115			
L70399-03AS	AS	01/11/22 13:39	MS211216-3	.05	.0003	.05038	mg/L	100	70	130			
L70399-03ASD	ASD	01/11/22 13:41	MS211216-3	.05	.0003	.05261	mg/L	105	70	130	4	20	

Uranium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG534781													
WG534781ICV	ICV	01/11/22 13:26	MS220105-1	.05		.05227	mg/L	105	90	110			
WG534781ICB	ICB	01/11/22 13:29				U	mg/L		-0.00022	0.00022			
WG534781LFB	LFB	01/11/22 13:31	MS211216-3	.05		.04681	mg/L	94	85	115			
L70399-03AS	AS	01/11/22 13:39	MS211216-3	.05	.00522	.0581	mg/L	106	70	130			
L70399-03ASD	ASD	01/11/22 13:41	MS211216-3	.05	.00522	.0621	mg/L	114	70	130	7	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L70399**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L70399-01	WG533686	Mercury, dissolved	M245.1 CVAA	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG534306	Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
			D516-02/-07/-11 - TURBIDIMETRIC	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
L70399-02	WG533686	Mercury, dissolved	M245.1 CVAA	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG534306	Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
			D516-02/-07/-11 - TURBIDIMETRIC	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
L70399-03	WG533738	Conductivity @25C	SM2510B	ZW	Method deviation. The sample was centrifuged prior to analysis due to high solid content.
	WG533686	Mercury, dissolved	M245.1 CVAA	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG533738	pH	SM4500H+ B	ZW	Method deviation. The sample was centrifuged prior to analysis due to high solid content.
	WG534306	Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
			D516-02/-07/-11 - TURBIDIMETRIC	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG533738	Total Alkalinity	SM2320B - Titration	ZW	Method deviation. The sample was centrifuged prior to analysis due to high solid content.
L70399-04	WG533686	Mercury, dissolved	M245.1 CVAA	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG534306	Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
			D516-02/-07/-11 - TURBIDIMETRIC	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
L70399-05	WG533686	Mercury, dissolved	M245.1 CVAA	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG534306	Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
			D516-02/-07/-11 - TURBIDIMETRIC	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L70399**



No certification qualifiers associated with this analysis

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L70399
 Date Received: 12/10/2021 10:55
 Received By: mjj
 Date Printed: 12/13/2021

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody form or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?		X	
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody form complete and accurate?	X		
7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples?	X		
A change was made in the Report to: Name and Sample ID: Date:Time Line 1 section prior to ACZ custody.			
A change was made in the Report to: Name and Sample ID: Date:Time Line 1 section prior to ACZ custody.			
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A change was made in the Report to: Name and Sample ID: Date:Time Line 1 section prior to ACZ custody.			

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits? ¹	X		
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?	X		

NA indicates Not Applicable

Chain of Custody Related Remarks

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L70399
 Date Received: 12/10/2021 10:55
 Received By: mjj
 Date Printed: 12/13/2021

Client Contact Remarks

Shipping Containers

Cooler Id	Temp (°C)	Temp Criteria (°C)	Rad (µR/Hr)	Custody Seal Intact?
5248	2.6	<=6.0	15	Yes

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

¹ The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na2S2O3 preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).



Laboratories, Inc. L70399

CHAIN of CUSTODY

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Report to:

Name: Kathy Weinel
Company: Energy Fuels
E-mail: kweinel@energyfuels.com

Address: 225 Union Blvd. Suite 600
Lakewood, CO 80228
Telephone: 303-389-4134

Copy of Report to:

Name:
Company:

E-mail:
Telephone:

Invoice to:

Name: Kathy Weinel
Company: Energy Fuels
E-mail: kweinel@energyfuels.com

Address: 225 Union Blvd, Suite 600
Lakewood, CO 80228
Telephone: 303-389-4134

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES [X] NO

If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified

Are samples for SDWA Compliance Monitoring? Yes No [X]

If yes, please include state forms. Results will be reported to PQL for Colorado.

Sampler's Name: Matt Germansen Sampler's Site Information State AZ Zip code 86005 Time Zone AZ

*Sampler's Signature: [Signature] I attest to the authenticity and validity of this sample. I understand that intentionally mislabeling the time/date/location or tampering with the sample in anyway, is considered fraud and punishable by State Law.

PROJECT INFORMATION

ANALYSES REQUESTED (attach list or use quote number)

Quote #: PP-GW-END APP
PO#:
Reporting state for compliance testing:
Check box if samples include NRC licensed material?

Table with columns for # of Containers and rows for sample identification. Includes handwritten 'SEE QUOTE' in multiple cells.

Table with columns: SAMPLE IDENTIFICATION, DATE:TIME, Matrix. Contains handwritten entries for MW-01, MW-02, MW-03, RW-01, RW-01DUP.

Matrix SW (Surface Water) GW (Ground Water) WW (Waste Water) DW (Drinking Water) SL (Sludge) SO (Soil) OL (Oil) Other (Specify)

REMARKS

See Quote, Normal TAT, No Rad's
4 Bottles/sample

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

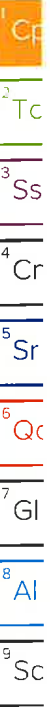
Table with columns: RELINQUISHED BY, DATE:TIME, RECEIVED BY, DATE:TIME. Includes handwritten signatures and dates.

L70399 Chain of Custody



ANALYTICAL REPORT

January 26, 2022



Energy Fuels Resources

Sample Delivery Group:	L1443027
Samples Received:	12/16/2021
Project Number:	PINYON PLAIN GW
Description:	Pinyon Plane RAD
Site:	PINYON PLAIN
Report To:	Kathy Weinel
	225 Union Blvd
	Suite 600
	Lakewood, CO 80228

Entire Report Reviewed By:

Donna Eidson
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

ACCOUNT:

PROJECT:

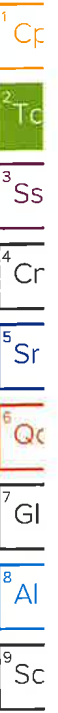
SDG:

DATE/TIME:

PAGE:

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SAMPLE SUMMARY

MW-01-12072021 L1443027-01 Non-Potable Water

Collected by: Matt Germansen
 Collected date/time: 12/07/21 15:32
 Received date/time: 12/16/21 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 900	WG1797898	1	01/04/22 14:01	01/25/22 14:13	JMR	Mt. Juliet, TN
Radiochemistry by Method 903.0/9315	WG1792815	1	12/22/21 14:24	12/30/21 23:24	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG1791267	1	12/20/21 08:30	01/18/22 15:50	JMR	Mt. Juliet, TN
Radiochemistry by Method D3972 U-02	WG1795585	1	12/28/21 13:00	01/03/22 13:56	RGT	Mt. Juliet, TN

MW-02-12092021 L1443027-02 Non-Potable Water

Collected by: Matt Germansen
 Collected date/time: 12/09/21 12:05
 Received date/time: 12/16/21 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 900	WG1797898	1	01/04/22 14:01	01/25/22 14:13	JMR	Mt. Juliet, TN
Radiochemistry by Method 903.0/9315	WG1792815	1	12/22/21 14:24	12/30/21 23:24	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG1791267	1	12/20/21 08:30	01/18/22 15:50	JMR	Mt. Juliet, TN
Radiochemistry by Method D3972 U-02	WG1795585	1	12/28/21 13:00	01/03/22 13:56	RGT	Mt. Juliet, TN

MW-03-12082021 L1443027-03 Non-Potable Water

Collected by: Matt Germansen
 Collected date/time: 12/08/21 14:54
 Received date/time: 12/16/21 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 900	WG1797898	1	01/04/22 14:01	01/25/22 14:13	JMR	Mt. Juliet, TN
Radiochemistry by Method 903.0/9315	WG1792815	1	12/22/21 14:24	12/31/21 00:24	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG1791267	1	12/20/21 08:30	01/18/22 15:50	JMR	Mt. Juliet, TN
Radiochemistry by Method D3972 U-02	WG1795585	1	12/28/21 13:00	01/03/22 13:56	RGT	Mt. Juliet, TN

RW-01-12082021 L1443027-04 Non-Potable Water

Collected by: Matt Germansen
 Collected date/time: 12/08/21 16:38
 Received date/time: 12/16/21 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 900	WG1797898	1	01/04/22 14:01	01/25/22 14:13	JMR	Mt. Juliet, TN
Radiochemistry by Method 903.0/9315	WG1792815	1	12/22/21 14:24	12/31/21 00:24	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG1791267	1	12/20/21 08:30	01/18/22 15:50	JMR	Mt. Juliet, TN
Radiochemistry by Method D3972 U-02	WG1795585	1	12/28/21 13:00	01/03/22 13:56	RGT	Mt. Juliet, TN

RW-01-DUP-12082021 L1443027-05 Non-Potable Water

Collected by: Matt Germansen
 Collected date/time: 12/08/21 16:38
 Received date/time: 12/16/21 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 900	WG1797898	1	01/04/22 14:01	01/25/22 14:13	JMR	Mt. Juliet, TN
Radiochemistry by Method 903.0/9315	WG1792815	1	12/22/21 14:24	12/31/21 00:24	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG1791267	1	12/20/21 08:30	01/18/22 15:50	JMR	Mt. Juliet, TN
Radiochemistry by Method D3972 U-02	WG1795585	1	12/28/21 13:00	01/03/22 13:56	RGT	Mt. Juliet, TN

SUMP-12072021 L1443027-06 Non-Potable Water

Collected by: Matt Germansen
 Collected date/time: 12/07/21 15:35
 Received date/time: 12/16/21 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 900	WG1797898	1	01/04/22 14:01	01/25/22 14:13	JMR	Mt. Juliet, TN
Radiochemistry by Method 903.0/9315	WG1792815	1	12/22/21 14:24	01/17/22 10:39	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG1791267	1	12/20/21 08:30	01/18/22 15:50	JMR	Mt. Juliet, TN
Radiochemistry by Method D3972 U-02	WG1795585	1	12/28/21 13:00	01/03/22 13:56	RGT	Mt. Juliet, TN



SAMPLE SUMMARY

SUMP-DUP-12072021 L1443027-07 Non-Potable Water

Collected by: Matt Germansen
 Collected date/time: 12/07/21 15:35
 Received date/time: 12/16/21 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 900	WG1797898	1	01/04/22 14:01	01/25/22 14:13	JMR	Mt. Juliet, TN
Radiochemistry by Method 903.0/9315	WG1792815	1	12/22/21 14:24	01/17/22 10:39	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG1791267	1	12/20/21 08:30	01/18/22 15:50	JMR	Mt. Juliet, TN
Radiochemistry by Method D3972 U-02	WG1795585	1	12/28/21 13:00	01/03/22 13:56	RGT	Mt. Juliet, TN

PREWTP-12072021 L1443027-08 Non-Potable Water

Collected by: Matt Germansen
 Collected date/time: 12/07/21 14:15
 Received date/time: 12/16/21 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 900	WG1797898	1	01/04/22 14:01	01/25/22 14:13	JMR	Mt. Juliet, TN
Radiochemistry by Method 903.0/9315	WG1792815	1	12/22/21 14:24	12/31/21 01:24	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG1791267	1	12/20/21 08:30	01/18/22 15:50	JMR	Mt. Juliet, TN
Radiochemistry by Method D3972 U-02	WG1795585	1	12/28/21 13:00	01/03/22 13:56	RGT	Mt. Juliet, TN

POSTWTP-12072021 L1443027-09 Non-Potable Water

Collected by: Matt Germansen
 Collected date/time: 12/07/21 14:00
 Received date/time: 12/16/21 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 900	WG1797898	1	01/04/22 14:01	01/25/22 14:13	JMR	Mt. Juliet, TN
Radiochemistry by Method 903.0/9315	WG1792815	1	12/22/21 14:24	12/31/21 01:24	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG1791267	1	12/20/21 08:30	01/18/22 15:50	JMR	Mt. Juliet, TN
Radiochemistry by Method D3972 U-02	WG1795585	1	12/28/21 13:00	01/03/22 13:56	RGT	Mt. Juliet, TN

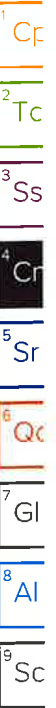


CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Donna Eidson
Project Manager



Radiochemistry by Method 900

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
GROSS ALPHA	49.5		4.86	2.03	01/25/2022 14:13	WG1797898

Radiochemistry by Method 903.0/9315

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Radium-226	2.82		0.719	0.265	12/30/2021 23:24	WG1792815
(T) Barium	93.1			30.0-143	12/30/2021 23:24	WG1792815

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	1.86		0.306	0.500	01/18/2022 15:50	WG1791267
(T) Barium	110			62.0-143	01/18/2022 15:50	WG1791267
(T) Yttrium	92.8			79.0-136	01/18/2022 15:50	WG1791267

Radiochemistry by Method D3972 U-02

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
URANIUM-234	15.1		1.67	0.807	01/03/2022 13:56	WG1795585
URANIUM-235	0.844		0.397	0.285	01/03/2022 13:56	WG1795585
URANIUM-238	7.20		1.12	0.477	01/03/2022 13:56	WG1795585
(T) URANIUM-232	70.6			30.0-110	01/03/2022 13:56	WG1795585

1 Cp

2 Tc

3 Ss

4 Cr

5 Sr

6 Qc

7 GI

8 Al

9 Sc

Radiochemistry by Method 900

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
GROSS ALPHA	14.0		2.37	1.35	01/25/2022 14:13	WG1797898

Radiochemistry by Method 903.0/9315

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Radium-226	1.93		0.624	0.420	12/30/2021 23:24	WG1792815
(T) Barium	92.1			30.0-143	12/30/2021 23:24	WG1792815

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	0.536	<u>J</u>	0.347	0.625	01/18/2022 15:50	WG1791267
(T) Barium	103			62.0-143	01/18/2022 15:50	WG1791267
(T) Yttrium	96.4			79.0-136	01/18/2022 15:50	WG1791267

Radiochemistry by Method D3972 U-02

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
URANIUM-234	3.09		0.947	0.876	01/03/2022 13:56	WG1795585
URANIUM-235	0.325	<u>J</u>	0.347	0.454	01/03/2022 13:56	WG1795585
URANIUM-238	1.08		0.593	0.648	01/03/2022 13:56	WG1795585
(T) URANIUM-232	63.9			30.0-110	01/03/2022 13:56	WG1795585



Radiochemistry by Method 900

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
GROSS ALPHA	12.0		4.25	3.84	01/25/2022 14:13	WG1797898

Radiochemistry by Method 903.0/9315

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Radium-226	1.27		0.519	0.415	12/31/2021 00:24	WG1792815
(T) Barium	92.0			30.0-143	12/31/2021 00:24	WG1792815

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.564		0.314	0.563	01/18/2022 15:50	WG1791267
(T) Barium	103			62.0-143	01/18/2022 15:50	WG1791267
(T) Yttrium	103			79.0-136	01/18/2022 15:50	WG1791267

Radiochemistry by Method D3972 U-02

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
URANIUM-234	2.14		0.960	1.03	01/03/2022 13:56	WG1795585
URANIUM-235	0.219	J	0.285	0.392	01/03/2022 13:56	WG1795585
URANIUM-238	1.60		0.727	0.703	01/03/2022 13:56	WG1795585
(T) URANIUM-232	59.9			30.0-110	01/03/2022 13:56	WG1795585



Radiochemistry by Method 900

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
GROSS ALPHA	22.5		2.55	1.17	01/25/2022 14:13	WG1797898

Radiochemistry by Method 903.0/9315

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Radium-226	2.23		0.638	0.262	12/31/2021 00:24	WG1792815
(T) Barium	93.8			30.0-143	12/31/2021 00:24	WG1792815

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	1.52		0.498	0.871	01/18/2022 15:50	WG1791267
(T) Barium	99.2			62.0-143	01/18/2022 15:50	WG1791267
(T) Yttrium	100			79.0-136	01/18/2022 15:50	WG1791267

Radiochemistry by Method D3972 U-02

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
URANIUM-234	8.40		1.42	0.909	01/03/2022 13:56	WG1795585
URANIUM-235	0.138	<u>U</u>	0.307	0.482	01/03/2022 13:56	WG1795585
URANIUM-238	4.80		1.00	0.423	01/03/2022 13:56	WG1795585
(T) URANIUM-232	68.4			30.0-110	01/03/2022 13:56	WG1795585



Radiochemistry by Method 900

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
GROSS ALPHA	22.0		2.48	1.08	01/25/2022 14:13	WG1797898

Radiochemistry by Method 903.0/9315

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Radium-226	1.99		0.601	0.260	12/31/2021 00:24	WG1792815
(T) Barium	94.7			30.0-143	12/31/2021 00:24	WG1792815

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	4.45		0.567	0.896	01/18/2022 15:50	WG1791267
(T) Barium	103			62.0-143	01/18/2022 15:50	WG1791267
(T) Yttrium	97.7			79.0-136	01/18/2022 15:50	WG1791267

Radiochemistry by Method D3972 U-02

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
URANIUM-234	9.86		1.61	0.708	01/03/2022 13:56	WG1795585
URANIUM-235	0.494	J	0.502	0.654	01/03/2022 13:56	WG1795585
URANIUM-238	5.00		1.16	0.654	01/03/2022 13:56	WG1795585
(T) URANIUM-232	55.1			30.0-110	01/03/2022 13:56	WG1795585

1 Cp

2 Tc

3 Ss

4 Cr

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3753647-1 01/25/22 10:49

Analyte	MB Result pCi/l	MB Uncertainty +/-	MB MDA pCi/l
GROSS ALPHA	-0.193	0.335	0.619

L1443027-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1443027-05 01/25/22 14:13 • (DUP) R3753647-5 01/25/22 10:50

Analyte	Original Result pCi/l	Original Uncertainty +/-	DUP Result pCi/l	DUP Uncertainty +/-	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
GROSS ALPHA	22.0	2.48	28.1	2.70	1.08	1	24.4	1.67		20	3

Laboratory Control Sample (LCS)

(LCS) R3753647-2 01/25/22 10:49

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
GROSS ALPHA	15.0	14.6	97.3	80.0-120	

L1443027-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1443027-04 01/25/22 14:13 • (MS) R3753647-3 01/25/22 10:49 • (MSD) R3753647-4 01/25/22 10:49

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MS Rec. %	MSD Result pCi/l	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	RPD %	MS RER	RPD Limits %
GROSS ALPHA	18.8	22.5	41.9	103	46.3	126	1	70.0-130		9.77		20

Method Blank (MB)

(MB) R3750559-1 12/30/21 22:23

Analyte	MB Result pCi/l	MB Uncertainty +/-	MB MDA pCi/l
Radium-226	0.0548	0.0801	0.135
(f) Barium	94.8	94.8	

L1443027-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1443027-09 12/31/21 01:24 • (DUP) R3750559-4 12/30/21 23:24

Analyte	Original Result pCi/l	Original Uncertainty +/-	DUP Result pCi/l	DUP Uncertainty +/-	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-226	2.23	0.617	1.92	0.767	0.249	1	14.7	0.310		20	3
(f) Barium	99.4		93.0	93.0							

Laboratory Control Sample (LCS)

(LCS) R3750559-2 12/30/21 22:23

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.01	5.03	100	80.0-120	
(f) Barium		91.1			

L1443027-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1443027-02 12/30/21 23:24 • (MS) R3750559-3 12/30/21 23:24

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Radium-226	20.0	1.93	23.3	107	1	75.0-125	
(f) Barium		92.1	93.6	93.6			

Method Blank (MB)

(MB) R3753023-1 01/18/22 15:50

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / -	MB MDA pCi/l
Radium-228	0.545		0.229	0.407
(f) Barium	109		109	
(f) Yttrium	96.2		96.2	

L1443027-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1443027-01 01/18/22 15:50 • (DUP) R3753023-5 01/18/22 15:50

Analyte	Original Result pCi/l	Original Uncertainty + / -	DUP Uncertainty + / -	DUP Result pCi/l	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	1.86	0.306	1.05	1.77	0.500	1	5.06	0.0841	J	20	3
(f) Barium	110		95.5	95.5							
(f) Yttrium	92.8		92.5	92.5							

Laboratory Control Sample (LCS)

(LCS) R3753023-2 01/18/22 15:50

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	5.51	110	80.0-120	
(f) Barium			105		
(f) Yttrium			101		

L1443024-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1443024-01 01/18/22 15:50 • (MS) R3753023-3 01/18/22 15:50 • (MSD) R3753023-4 01/18/22 15:50

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	16.7	4.94	23.6	25.4	112	122	1	70.0-130		7.02		20
(f) Barium		95.4	110	103								
(f) Yttrium		93.7	93.8	99.7								

Method Blank (MB)

(MB) R3748703-1 01/03/22 13:56

Analyte	MB Result pCi/l	MB Uncertainty +/-	MB MDA pCi/l
URANIUM-234	-0.167	0.159	0.283
URANIUM-235	-0.0605	0.0864	0.175
URANIUM-238	-0.0139	0.0985	0.175
(T) URANIUM-232	59.2		

L1443027-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1443027-09 01/03/22 13:56 • (DUP) R3748703-4 01/03/22 13:56

Analyte	Original Result pCi/l	Original Uncertainty +/-	DUP Result pCi/l	DUP Uncertainty +/-	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
URANIUM-234	0.743	0.643	0.829	0.572	0.829	1	26.6	0.203	J	20	3
URANIUM-235	0.0740	0.223	0.376	0.208	0.376	1	88.8	0.149	U	20	3
URANIUM-238	0.0464	0.328	0.549	0.294	0.549	1	144	0.540	J	20	3
(T) URANIUM-232	65.5		60.2	60.2							

Laboratory Control Sample (LCS)

(LCS) R3748703-2 01/03/22 13:56

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
URANIUM-234	10.1	10.3	101	80.0-120	
URANIUM-238	9.80	10.3	105	80.0-120	
(T) URANIUM-232			54.9		

L1443027-08 Original Sample (OS) • Matrix Spike (MS)

(OS) L1443027-08 01/03/22 13:56 • (MS) R3748703-3 01/03/22 13:56

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
URANIUM-234	40.2	16.5	53.5	91.9	1	75.0-125	
URANIUM-238	39.2	9.05	48.1	99.6	1	75.0-125	
(T) URANIUM-232		61.6	59.9	59.9			

GLOSSARY OF TERMS

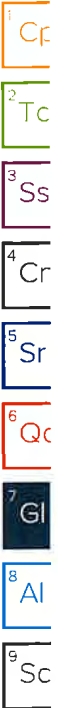
Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDA	Minimum Detectable Activity.
Rec.	Recovery.
RER	Replicate Error Ratio.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(T)	Tracer - A radioisotope of known concentration added to a solution of chemically equivalent radioisotopes at a known concentration to assist in monitoring the yield of the chemical separation.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.
Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Below Detectable Limits: Indicates that the analyte was not detected.



ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-05-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ²	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



Energy Fuels Resources

12085 Leabson Rd Mount Juliet, TN 37127

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions located at: <http://www.paceanalytical.com/html/ba1-standard.html>

SDG # **L1443027**

Tab **A191**

Account: **ENEUFUELCO**

Template: **T199351**

Prelogin: **P887579**

PM: **732, Donny Edson**

PB: **11/19/21 MK**

Shipped Via: **FedEX Ground**

Remarks: **Sample # (lab only)**

Analysis / Container / Preservative	Pres Chk	Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Conrs
GROSS ALPHA, RA-226 TL-HDPE-Add HNO3	N	MW-01-12072021		NPW		12/7/21	1532	3
RA-228 TL-HDPE-Add HNO3	N	MW-02-12092021		NPW		12/7/21	1205	3
U-ISO 1L-HDPE-Add HNO3	N	MW-03-12082021		NPW		12/8/21	1454	3
		RW-01-12082021		NPW		12/8/21	1638	3
		RW-01 Dup-12082021		NPW		12/8/21	1638	3
		Shmp-12072021		NPW		12/7/21	1535	3
		Shmp-Dup-12072021		NPW		12/7/21	1535	3
		Prep-12072021		NPW		12/7/21	1415	3
		WTP-Comp-Post WTP-12072021		NPW		12/7/21	1400	3
				NPW				3

Sample Returned via: UPS FedEx Counter

Tracking #

Received by: (Signature) *[Signature]* Time: 12/9/21 1320

Received by: (Signature) *[Signature]* Time: 12/10/21 1030

Received for lab by: (Signature) *[Signature]* Time: 12/10/21 1030

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Conrs	Remarks
MW-01-12072021		NPW		12/7/21	1532	3	
MW-02-12092021		NPW		12/7/21	1205	3	
MW-03-12082021		NPW		12/8/21	1454	3	
RW-01-12082021		NPW		12/8/21	1638	3	
RW-01 Dup-12082021		NPW		12/8/21	1638	3	
Shmp-12072021		NPW		12/7/21	1535	3	
Shmp-Dup-12072021		NPW		12/7/21	1535	3	
Prep-12072021		NPW		12/7/21	1415	3	
WTP-Comp-Post WTP-12072021		NPW		12/7/21	1400	3	
		NPW				3	

* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - Waste Water DW - Drinking Water OT - Other

Remarks: **No Ice Required**
Overnight Not Required

Relinquished by: (Signature) *[Signature]*

Relinquished by: (Signature) *[Signature]*

Relinquished by: (Signature) *[Signature]*

Sample Receipt Checklist

COC Seal Present/Intact: Y N

COC Signed/Accurate: Y N

Bottles arrive intact: Y N

Correct bottles used: Y N

Sufficient volume sent: Y N

If Applicable

VOA Zero Headpace: Y N

Preservation Correct/Checked: Y N

RAD Screen < 0.5 mR/hr: Y N

If preservation required by Login: Date/Time

Hold: OK NCF

L1443027

<u>Tracking Numbers</u>	<u>Temperature</u>
UPS	4.8 ± 0.4.8 DAAZ
UPS	12.9 ± 0.1 = 12.9 BA #7

March 28, 2022

Report to:

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

Bill to:

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

Project ID:

ACZ Project ID: L71799

Kathy Weinel:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on March 04, 2022. This project has been assigned to ACZ's project number, L71799. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L71799. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after April 27, 2022. If the samples are determined to be hazardous, additional charges apply for disposal (typically \$11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.



Max Janicek has reviewed and approved this report.



March 28, 2022

Report to:

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

Bill to:

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

Project ID:

ACZ Project ID: L71800

Kathy Weinel:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on March 04, 2022. This project has been assigned to ACZ's project number, L71800. Please reference this number in all future inquiries.

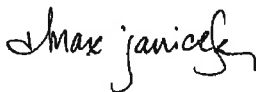
All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L71800. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after April 27, 2022. If the samples are determined to be hazardous, additional charges apply for disposal (typically \$11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.



Max Janicek has reviewed and approved this report.



Energy Fuels Resources (USA) Inc.

Project ID:

Sample ID: MW01-03032022

ACZ Sample ID: **L71800-01**

Date Sampled: 03/03/22 11:37

Date Received: 03/04/22

Sample Matrix: Groundwater

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, dissolved	M200.8 ICP-MS	1	0.00633			mg/L	0.0004	0.002	03/21/22 18:09	mfm
Arsenic, dissolved	M200.8 ICP-MS	1	0.178			mg/L	0.0002	0.001	03/21/22 18:09	mfm
Barium, dissolved	M200.7 ICP	1	0.0275	B		mg/L	0.007	0.035	03/24/22 4:12	wtc
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U	*	mg/L	0.00008	0.00025	03/21/22 18:09	mfm
Cadmium, dissolved	M200.8 ICP-MS	1	<0.00005	U		mg/L	0.00005	0.00025	03/21/22 18:09	mfm
Calcium, dissolved	M200.7 ICP	1	120			mg/L	0.1	0.5	03/24/22 4:12	wtc
Chromium, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	03/24/22 4:12	wtc
Lead, dissolved	M200.8 ICP-MS	1	0.00437			mg/L	0.0001	0.0005	03/21/22 18:09	mfm
Magnesium, dissolved	M200.7 ICP	1	58.8			mg/L	0.2	1	03/24/22 4:12	wtc
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	03/08/22 14:39	mlh
Nickel, dissolved	M200.7 ICP	1	0.0830			mg/L	0.008	0.04	03/24/22 4:12	wtc
Potassium, dissolved	M200.7 ICP	1	1.72			mg/L	0.2	1	03/24/22 4:12	wtc
Selenium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.00025	03/21/22 18:09	mfm
Sodium, dissolved	M200.7 ICP	1	3.26			mg/L	0.2	1	03/24/22 4:12	wtc
Thallium, dissolved	M200.8 ICP-MS	1	0.00139			mg/L	0.0001	0.0005	03/21/22 18:09	mfm
Uranium, dissolved	M200.8 ICP-MS	1	0.0147			mg/L	0.0001	0.0005	03/21/22 18:09	mfm

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	230			mg/L	2	20	03/09/22 0:00	jck
Carbonate as CaCO3		1	<2	U		mg/L	2	20	03/09/22 0:00	jck
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	03/09/22 0:00	jck
Total Alkalinity		1	230			mg/L	2	20	03/09/22 0:00	jck
Conductivity @25C	SM2510B	1	880			umhos/cm	1	10	03/09/22 2:48	jck
Fluoride	SM4500F-C	1	0.17	B		mg/L	0.15	0.35	03/21/22 17:09	emk
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	<0.02	U	*	mg/L	0.02	0.1	03/27/22 0:39	pjb
pH (lab)	SM4500H+ B									
pH		1	8.2	H		units	0.1	0.1	03/09/22 0:00	jck
pH measured at		1	22.1			C	0.1	0.1	03/09/22 0:00	jck
Residue, Filterable (TDS) @180C	SM2540C	1	616			mg/L	20	40	03/08/22 15:46	anc
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	25	288		*	mg/L	25	125	03/24/22 9:30	mjj1

Arizona license number: AZ0102

Energy Fuels Resources (USA) Inc.

Project ID:

Sample ID: MW01-03032022DUP

ACZ Sample ID: L71800-02

Date Sampled: 03/03/22 11:37

Date Received: 03/04/22

Sample Matrix: Groundwater

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, dissolved	M200.8 ICP-MS	1	0.00641			mg/L	0.0004	0.002	03/21/22 18:11	mfm
Arsenic, dissolved	M200.8 ICP-MS	1	0.193			mg/L	0.0002	0.001	03/21/22 18:11	mfm
Barium, dissolved	M200.7 ICP	1	0.0254	B		mg/L	0.007	0.035	03/22/22 23:07	wtc
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U	*	mg/L	0.00008	0.00025	03/21/22 18:11	mfm
Cadmium, dissolved	M200.8 ICP-MS	1	<0.00005	U		mg/L	0.00005	0.00025	03/21/22 18:11	mfm
Calcium, dissolved	M200.7 ICP	1	116		*	mg/L	0.1	0.5	03/22/22 23:07	wtc
Chromium, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	03/22/22 23:07	wtc
Lead, dissolved	M200.8 ICP-MS	1	0.00458			mg/L	0.0001	0.0005	03/21/22 18:11	mfm
Magnesium, dissolved	M200.7 ICP	1	57.4			mg/L	0.2	1	03/22/22 23:07	wtc
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	03/08/22 14:39	mlh
Nickel, dissolved	M200.7 ICP	1	0.0854			mg/L	0.008	0.04	03/22/22 23:07	wtc
Potassium, dissolved	M200.7 ICP	1	1.61			mg/L	0.2	1	03/22/22 23:07	wtc
Selenium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.00025	03/21/22 18:11	mfm
Sodium, dissolved	M200.7 ICP	1	3.18			mg/L	0.2	1	03/22/22 23:07	wtc
Thallium, dissolved	M200.8 ICP-MS	1	0.00145			mg/L	0.0001	0.0005	03/21/22 18:11	mfm
Uranium, dissolved	M200.8 ICP-MS	1	0.0154			mg/L	0.0001	0.0005	03/21/22 18:11	mfm

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	248			mg/L	2	20	03/09/22 0:00	jck
Carbonate as CaCO3		1	<2	U		mg/L	2	20	03/09/22 0:00	jck
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	03/09/22 0:00	jck
Total Alkalinity		1	248			mg/L	2	20	03/09/22 0:00	jck
Conductivity @25C	SM2510B	1	882			umhos/cm	1	10	03/09/22 2:59	jck
Fluoride	SM4500F-C	1	0.17	B		mg/L	0.15	0.35	03/21/22 17:17	emk
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	<0.02	U	*	mg/L	0.02	0.1	03/27/22 0:41	pjb
pH (lab)	SM4500H+ B									
pH		1	8.2	H		units	0.1	0.1	03/09/22 0:00	jck
pH measured at		1	21.9			C	0.1	0.1	03/09/22 0:00	jck
Residue, Filterable (TDS) @180C	SM2540C	1	616			mg/L	20	40	03/08/22 15:48	anc
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	25	274		*	mg/L	25	125	03/24/22 9:30	mjj1

Arizona license number: AZ0102

Energy Fuels Resources (USA) Inc.
 Project ID:
 Sample ID: MW02-02282022

ACZ Sample ID: **L71800-03**
 Date Sampled: 03/03/22 11:58
 Date Received: 03/04/22
 Sample Matrix: Groundwater

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	03/21/22 18:13	mfm
Arsenic, dissolved	M200.8 ICP-MS	1	0.00367			mg/L	0.0002	0.001	03/21/22 18:13	mfm
Barium, dissolved	M200.7 ICP	1	0.0482			mg/L	0.007	0.035	03/22/22 23:16	wtc
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U	*	mg/L	0.00008	0.00025	03/21/22 18:13	mfm
Cadmium, dissolved	M200.8 ICP-MS	1	<0.00005	U		mg/L	0.00005	0.00025	03/21/22 18:13	mfm
Calcium, dissolved	M200.7 ICP	1	81.6		*	mg/L	0.1	0.5	03/22/22 23:16	wtc
Chromium, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	03/22/22 23:16	wtc
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	03/21/22 18:13	mfm
Magnesium, dissolved	M200.7 ICP	1	39.1			mg/L	0.2	1	03/22/22 23:16	wtc
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	03/08/22 14:40	mlh
Nickel, dissolved	M200.7 ICP	1	0.0193	B		mg/L	0.008	0.04	03/22/22 23:16	wtc
Potassium, dissolved	M200.7 ICP	1	2.61			mg/L	0.2	1	03/22/22 23:16	wtc
Selenium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.00025	03/21/22 18:13	mfm
Sodium, dissolved	M200.7 ICP	1	2.68			mg/L	0.2	1	03/22/22 23:16	wtc
Thallium, dissolved	M200.8 ICP-MS	1	0.00077			mg/L	0.0001	0.0005	03/21/22 18:13	mfm
Uranium, dissolved	M200.8 ICP-MS	1	0.00617			mg/L	0.0001	0.0005	03/21/22 18:13	mfm

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	234			mg/L	2	20	03/09/22 0:00	jck
Carbonate as CaCO3		1	<2	U		mg/L	2	20	03/09/22 0:00	jck
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	03/09/22 0:00	jck
Total Alkalinity		1	234			mg/L	2	20	03/09/22 0:00	jck
Conductivity @25C	SM2510B	1	642			umhos/cm	1	10	03/09/22 3:08	jck
Fluoride	SM4500F-C	1	<0.15	U		mg/L	0.15	0.35	03/21/22 17:25	emk
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	<0.02	U	*	mg/L	0.02	0.1	03/27/22 0:43	pjb
pH (lab)	SM4500H+ B									
pH		1	8.3	H		units	0.1	0.1	03/09/22 0:00	jck
pH measured at		1	22.1			C	0.1	0.1	03/09/22 0:00	jck
Residue, Filterable (TDS) @180C	SM2540C	1	400			mg/L	20	40	03/08/22 15:51	anc
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	5	121		*	mg/L	5	25	03/24/22 9:20	mjj1

Arizona license number: AZ0102

Energy Fuels Resources (USA) Inc.

Project ID:

Sample ID: MW03-03022022

ACZ Sample ID: **L71800-04**

Date Sampled: 03/03/22 15:19

Date Received: 03/04/22

Sample Matrix: Groundwater

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	03/21/22 18:15	mfm
Arsenic, dissolved	M200.8 ICP-MS	1	0.0123			mg/L	0.0002	0.001	03/21/22 18:15	mfm
Barium, dissolved	M200.7 ICP	1	0.0090	B		mg/L	0.007	0.035	03/22/22 23:19	wtc
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U	*	mg/L	0.00008	0.00025	03/21/22 18:15	mfm
Cadmium, dissolved	M200.8 ICP-MS	1	<0.00005	U		mg/L	0.00005	0.00025	03/21/22 18:15	mfm
Calcium, dissolved	M200.7 ICP	1	189		*	mg/L	0.1	0.5	03/22/22 23:19	wtc
Chromium, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	03/22/22 23:19	wtc
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	03/21/22 18:15	mfm
Magnesium, dissolved	M200.7 ICP	1	88.8			mg/L	0.2	1	03/22/22 23:19	wtc
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	03/08/22 14:43	mlh
Nickel, dissolved	M200.7 ICP	1	0.195			mg/L	0.008	0.04	03/22/22 23:19	wtc
Potassium, dissolved	M200.7 ICP	1	2.22			mg/L	0.2	1	03/22/22 23:19	wtc
Selenium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.00025	03/21/22 18:15	mfm
Sodium, dissolved	M200.7 ICP	1	3.72			mg/L	0.2	1	03/22/22 23:19	wtc
Thallium, dissolved	M200.8 ICP-MS	1	0.00038	B		mg/L	0.0001	0.0005	03/21/22 18:15	mfm
Uranium, dissolved	M200.8 ICP-MS	1	0.00540			mg/L	0.0001	0.0005	03/21/22 18:15	mfm

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	171			mg/L	2	20	03/09/22 0:00	jck
Carbonate as CaCO3		1	<2	U		mg/L	2	20	03/09/22 0:00	jck
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	03/09/22 0:00	jck
Total Alkalinity		1	171		*	mg/L	2	20	03/09/22 0:00	jck
Conductivity @25C	SM2510B	1	1350		*	umhos/cm	1	10	03/09/22 3:17	jck
Fluoride	SM4500F-C	1	<0.15	U		mg/L	0.15	0.35	03/21/22 17:43	emk
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	<0.02	U	*	mg/L	0.02	0.1	03/27/22 0:44	pjb
pH (lab)	SM4500H+ B									
pH		1	7.9	H	*	units	0.1	0.1	03/09/22 0:00	jck
pH measured at		1	21.7			C	0.1	0.1	03/09/22 0:00	jck
Residue, Filterable (TDS) @180C	SM2540C	1	1070			mg/L	20	40	03/08/22 15:54	anc
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	25	660		*	mg/L	25	125	03/24/22 9:23	mjj1

Arizona license number: AZ0102

Energy Fuels Resources (USA) Inc.

Project ID:

Sample ID: RW01-03012022

ACZ Sample ID: **L71800-05**

Date Sampled: 03/03/22 15:45

Date Received: 03/04/22

Sample Matrix: Groundwater

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	03/21/22 18:17	mfm
Arsenic, dissolved	M200.8 ICP-MS	1	0.00021	B		mg/L	0.0002	0.001	03/21/22 18:17	mfm
Barium, dissolved	M200.7 ICP	1	0.0873			mg/L	0.007	0.035	03/22/22 23:22	wtc
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U	*	mg/L	0.00008	0.00025	03/21/22 18:17	mfm
Cadmium, dissolved	M200.8 ICP-MS	1	<0.00005	U		mg/L	0.00005	0.00025	03/21/22 18:17	mfm
Calcium, dissolved	M200.7 ICP	1	43.5		*	mg/L	0.1	0.5	03/22/22 23:22	wtc
Chromium, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	03/22/22 23:22	wtc
Lead, dissolved	M200.8 ICP-MS	1	0.00038	B		mg/L	0.0001	0.0005	03/21/22 18:17	mfm
Magnesium, dissolved	M200.7 ICP	1	29.7			mg/L	0.2	1	03/22/22 23:22	wtc
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	03/08/22 14:44	mlh
Nickel, dissolved	M200.7 ICP	1	0.0149	B		mg/L	0.008	0.04	03/22/22 23:22	wtc
Potassium, dissolved	M200.7 ICP	1	2.24			mg/L	0.2	1	03/22/22 23:22	wtc
Selenium, dissolved	M200.8 ICP-MS	1	0.00546			mg/L	0.0001	0.00025	03/21/22 18:17	mfm
Sodium, dissolved	M200.7 ICP	1	5.82			mg/L	0.2	1	03/22/22 23:22	wtc
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	03/21/22 18:17	mfm
Uranium, dissolved	M200.8 ICP-MS	1	0.0148			mg/L	0.0001	0.0005	03/21/22 18:17	mfm

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	208			mg/L	2	20	03/09/22 0:00	jck
Carbonate as CaCO3		1	8.2	B		mg/L	2	20	03/09/22 0:00	jck
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	03/09/22 0:00	jck
Total Alkalinity		1	216			mg/L	2	20	03/09/22 0:00	jck
Conductivity @25C	SM2510B	1	430			umhos/cm	1	10	03/09/22 3:27	jck
Fluoride	SM4500F-C	1	0.31	B		mg/L	0.15	0.35	03/21/22 17:51	emk
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	0.076	B	*	mg/L	0.02	0.1	03/27/22 0:45	pjb
pH (lab)	SM4500H+ B									
pH		1	8.3	H		units	0.1	0.1	03/09/22 0:00	jck
pH measured at		1	21.4			C	0.1	0.1	03/09/22 0:00	jck
Residue, Filterable (TDS) @180C	SM2540C	1	228			mg/L	20	40	03/08/22 15:56	anc
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	1	22.5		*	mg/L	1	5	03/24/22 8:59	mjj1

Arizona license number: **AZ0102**

EFRC

ACZ Project ID: **L71800**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Alkalinity as CaCO3

SM2320B - Titration

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG537908													
WG537908PBW1	PBW	03/08/22 20:06				18.2	mg/L		-20	20			
WG537908LCSW3	LCSW	03/08/22 20:23	WC220223-1	820.0001		782.8	mg/L	95	90	110			
WG537908LCSW6	LCSW	03/08/22 22:49	WC220223-1	820.0001		815.6	mg/L	99	90	110			
WG537908PBW2	PBW	03/08/22 22:56				4.3	mg/L		-20	20			
WG537908LCSW9	LCSW	03/09/22 2:13	WC220223-1	820.0001		829.8	mg/L	101	90	110			
WG537908PBW3	PBW	03/09/22 2:20				4.6	mg/L		-20	20			
L71802-01DUP	DUP	03/09/22 4:03			114	127.7	mg/L				11	20	
WG537908LCSW12	LCSW	03/09/22 5:56	WC220223-1	820.0001		836.1	mg/L	102	90	110			
WG537908PBW4	PBW	03/09/22 6:03				3.9	mg/L		-20	20			
WG537908LCSW15	LCSW	03/09/22 9:27	WC220223-1	820.0001		844.8	mg/L	103	90	110			

Antimony, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG538663													
WG538663ICV	ICV	03/21/22 17:43	MS220125-1	.0201		.01989	mg/L	99	90	110			
WG538663ICB	ICB	03/21/22 17:45				.00053	mg/L		-0.00088	0.00088			
WG538663LFB	LFB	03/21/22 17:47	MS220228-9	.01		.00983	mg/L	98	85	115			
L71750-04AS	AS	03/21/22 17:56	MS220228-9	.01	U	.0082	mg/L	82	70	130			
L71750-04ASD	ASD	03/21/22 17:58	MS220228-9	.01	U	.00848	mg/L	85	70	130	3	20	
L71893-01AS	AS	03/21/22 18:24	MS220228-9	.01	U	.00989	mg/L	99	70	130			
L71893-01ASD	ASD	03/21/22 18:26	MS220228-9	.01	U	.01017	mg/L	102	70	130	3	20	

Arsenic, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG538663													
WG538663ICV	ICV	03/21/22 17:43	MS220125-1	.05		.05071	mg/L	101	90	110			
WG538663ICB	ICB	03/21/22 17:45				U	mg/L		-0.00044	0.00044			
WG538663LFB	LFB	03/21/22 17:47	MS220228-9	.05005		.05163	mg/L	103	85	115			
L71750-04AS	AS	03/21/22 17:56	MS220228-9	.05005	U	.05269	mg/L	105	70	130			
L71750-04ASD	ASD	03/21/22 17:58	MS220228-9	.05005	U	.05312	mg/L	106	70	130	1	20	
L71893-01AS	AS	03/21/22 18:24	MS220228-9	.05005	.0007	.05714	mg/L	113	70	130			
L71893-01ASD	ASD	03/21/22 18:26	MS220228-9	.05005	.0007	.05447	mg/L	107	70	130	5	20	

Barium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG538689													
WG538689ICV	ICV	03/22/22 22:45	II220311-1	2		1.9638	mg/L	98	95	105			
WG538689ICB	ICB	03/22/22 22:51				U	mg/L		-0.021	0.021			
WG538689LFB	LFB	03/22/22 23:04	II220314-2	.5		.5029	mg/L	101	85	115			
L71800-02AS	AS	03/22/22 23:10	II220314-2	.5	.0254	.5363	mg/L	102	85	115			
L71800-02ASD	ASD	03/22/22 23:13	II220314-2	.5	.0254	.5315	mg/L	101	85	115	1	20	
WG538686													
WG538686ICV	ICV	03/24/22 3:45	II220311-1	2		1.9827	mg/L	99	95	105			
WG538686ICB	ICB	03/24/22 3:51				U	mg/L		-0.021	0.021			
WG538686LFB	LFB	03/24/22 4:03	II220314-2	.5		.5286	mg/L	106	85	115			
L71800-01AS	AS	03/24/22 4:15	II220314-2	.5	.0275	.5611	mg/L	107	85	115			
L71800-01ASD	ASD	03/24/22 4:18	II220314-2	.5	.0275	.5695	mg/L	108	85	115	1	20	

EFRC

ACZ Project ID: **L71800**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Beryllium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG538663													
WG538663ICV	ICV	03/21/22 17:43	MS220125-1	.05		.052074	mg/L	104	90	110			
WG538663ICB	ICB	03/21/22 17:45				U	mg/L		-0.000176	0.000176			
WG538663LFB	LFB	03/21/22 17:47	MS220228-9	.05005		.051897	mg/L	104	85	115			
L71750-04AS	AS	03/21/22 17:56	MS220228-9	.05005	U	.054472	mg/L	109	70	130			
L71750-04ASD	ASD	03/21/22 17:58	MS220228-9	.05005	U	.054112	mg/L	108	70	130	1	20	
L71893-01AS	AS	03/21/22 18:24	MS220228-9	.05005	U	.057541	mg/L	115	70	130			
L71893-01ASD	ASD	03/21/22 18:26	MS220228-9	.05005	U	.056666	mg/L	113	70	130	2	20	

Cadmium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG538663													
WG538663ICV	ICV	03/21/22 17:43	MS220125-1	.05		.053555	mg/L	107	90	110			
WG538663ICB	ICB	03/21/22 17:45				U	mg/L		-0.00011	0.00011			
WG538663LFB	LFB	03/21/22 17:47	MS220228-9	.05005		.052398	mg/L	105	85	115			
L71750-04AS	AS	03/21/22 17:56	MS220228-9	.05005	U	.051514	mg/L	103	70	130			
L71750-04ASD	ASD	03/21/22 17:58	MS220228-9	.05005	U	.050386	mg/L	101	70	130	2	20	
L71893-01AS	AS	03/21/22 18:24	MS220228-9	.05005	.000063	.052237	mg/L	104	70	130			
L71893-01ASD	ASD	03/21/22 18:26	MS220228-9	.05005	.000063	.049091	mg/L	98	70	130	6	20	

Calcium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG538689													
WG538689ICV	ICV	03/22/22 22:45	11220311-1	100		99.07	mg/L	99	95	105			
WG538689ICB	ICB	03/22/22 22:51				U	mg/L		-0.3	0.3			
WG538689LFB	LFB	03/22/22 23:04	11220314-2	67.99026		64.04	mg/L	94	85	115			
L71800-02AS	AS	03/22/22 23:10	11220314-2	67.99026	116	173.3	mg/L	84	85	115			MA
L71800-02ASD	ASD	03/22/22 23:13	11220314-2	67.99026	116	174.7	mg/L	86	85	115	1	20	
WG538686													
WG538686ICV	ICV	03/24/22 3:45	11220311-1	100		99.33	mg/L	99	95	105			
WG538686ICB	ICB	03/24/22 3:51				U	mg/L		-0.3	0.3			
WG538686LFB	LFB	03/24/22 4:03	11220314-2	67.99026		66.77	mg/L	98	85	115			
L71800-01AS	AS	03/24/22 4:15	11220314-2	67.99026	120	179.9	mg/L	88	85	115			
L71800-01ASD	ASD	03/24/22 4:18	11220314-2	67.99026	120	182.4	mg/L	92	85	115	1	20	

EFRC

ACZ Project ID: **L71800**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Chromium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG538689													
WG538689ICV	ICV	03/22/22 22:45	II220311-1	2		1.951	mg/L	98	95	105			
WG538689ICB	ICB	03/22/22 22:51				U	mg/L		-0.06	0.06			
WG538689LFB	LFB	03/22/22 23:04	II220314-2	.5005		.507	mg/L	101	85	115			
L71800-02AS	AS	03/22/22 23:10	II220314-2	.5005	U	.511	mg/L	102	85	115			
L71800-02ASD	ASD	03/22/22 23:13	II220314-2	.5005	U	.507	mg/L	101	85	115	1	20	
WG538686													
WG538686ICV	ICV	03/24/22 3:45	II220311-1	2		1.962	mg/L	98	95	105			
WG538686ICB	ICB	03/24/22 3:51				U	mg/L		-0.06	0.06			
WG538686LFB	LFB	03/24/22 4:03	II220314-2	.5005		.534	mg/L	107	85	115			
L71800-01AS	AS	03/24/22 4:15	II220314-2	.5005	U	.53	mg/L	106	85	115			
L71800-01ASD	ASD	03/24/22 4:18	II220314-2	.5005	U	.544	mg/L	109	85	115	3	20	

Conductivity @25C

SM2510B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG537908													
WG537908LCSW2	LCSW	03/08/22 20:12	PCN65017	1408		1379	umhos/cm	98	90	110			
WG537908LCSW5	LCSW	03/08/22 22:37	PCN65017	1408		1377	umhos/cm	98	90	110			
WG537908LCSW8	LCSW	03/09/22 2:00	PCN65017	1408		1365	umhos/cm	97	90	110			
L71802-01DUP	DUP	03/09/22 4:03			307	308	umhos/cm				0	20	
WG537908LCSW11	LCSW	03/09/22 5:43	PCN65017	1408		1361	umhos/cm	97	90	110			
WG537908LCSW14	LCSW	03/09/22 9:14	PCN65017	1408		1350	umhos/cm	96	90	110			

Fluoride

SM4500F-C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG538615													
WG538615ICV	ICV	03/21/22 11:12	WC220314-1	2.008		1.98	mg/L	99	90	110			
WG538615ICB	ICB	03/21/22 11:20				U	mg/L		-0.3	0.3			
WG538654													
WG538654ICV	ICV	03/21/22 15:43	WC220314-1	2.008		2.01	mg/L	100	90	110			
WG538654ICB	ICB	03/21/22 15:51				U	mg/L		-0.3	0.3			
WG538654LFB1	LFB	03/21/22 16:03	WC220104-2	5.02		5.32	mg/L	106	90	110			
L71750-06AS	AS	03/21/22 16:29	WC220104-2	5.02	.31	5.48	mg/L	103	90	110			
L71750-06ASD	ASD	03/21/22 16:37	WC220104-2	5.02	.31	5.58	mg/L	105	90	110	2	20	
WG538654LFB2	LFB	03/21/22 19:45	WC220104-2	5.02		5.25	mg/L	105	90	110			

Lead, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG538663													
WG538663ICV	ICV	03/21/22 17:43	MS220125-1	.05		.05285	mg/L	106	90	110			
WG538663ICB	ICB	03/21/22 17:45				U	mg/L		-0.00022	0.00022			
WG538663LFB	LFB	03/21/22 17:47	MS220228-9	.0501		.05198	mg/L	104	85	115			
L71750-04AS	AS	03/21/22 17:56	MS220228-9	.0501	U	.0513	mg/L	102	70	130			
L71750-04ASD	ASD	03/21/22 17:58	MS220228-9	.0501	U	.05166	mg/L	103	70	130	1	20	
L71893-01AS	AS	03/21/22 18:24	MS220228-9	.0501	.00036	.05764	mg/L	114	70	130			
L71893-01ASD	ASD	03/21/22 18:26	MS220228-9	.0501	.00036	.05842	mg/L	116	70	130	1	20	

EFRC

ACZ Project ID: **L71800**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Magnesium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG538689													
WG538689ICV	ICV	03/22/22 22:45	II220311-1	100		95.61	mg/L	96	95	105			
WG538689ICB	ICB	03/22/22 22:51				U	mg/L		-0.6	0.6			
WG538689LFB	LFB	03/22/22 23:04	II220314-2	49.99828		49.14	mg/L	98	85	115			
L71800-02AS	AS	03/22/22 23:10	II220314-2	49.99828	57.4	103.5	mg/L	92	85	115			
L71800-02ASD	ASD	03/22/22 23:13	II220314-2	49.99828	57.4	104	mg/L	93	85	115	0	20	
WG538686													
WG538686ICV	ICV	03/24/22 3:45	II220311-1	100		95.49	mg/L	95	95	105			
WG538686ICB	ICB	03/24/22 3:51				U	mg/L		-0.6	0.6			
WG538686LFB	LFB	03/24/22 4:03	II220314-2	49.99828		50.7	mg/L	101	85	115			
L71800-01AS	AS	03/24/22 4:15	II220314-2	49.99828	58.8	107.2	mg/L	97	85	115			
L71800-01ASD	ASD	03/24/22 4:18	II220314-2	49.99828	58.8	108.8	mg/L	100	85	115	1	20	

Mercury, dissolved

M245.1 CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG537796													
WG537796ICV	ICV	03/08/22 10:41	HG220301-3	.00501		.00475	mg/L	95	95	105			
WG537796ICB	ICB	03/08/22 10:42				U	mg/L		-0.0002	0.0002			
WG537871													
WG537871LRB	LRB	03/08/22 14:25				U	mg/L		-0.00044	0.00044			
WG537871LFB	LFB	03/08/22 14:26	HG220301-6	.002002		.00187	mg/L	93	85	115			
L71721-02LFM	LFM	03/08/22 14:29	HG220301-6	.002002	.0002	.00205	mg/L	92	85	115			
L71721-02LFMD	LFMD	03/08/22 14:30	HG220301-6	.002002	.0002	.00204	mg/L	92	85	115	0	20	
L71800-03LFM	LFM	03/08/22 14:41	HG220301-6	.002002	U	.00183	mg/L	91	85	115			
L71800-03LFMD	LFMD	03/08/22 14:42	HG220301-6	.002002	U	.00182	mg/L	91	85	115	1	20	

Nickel, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG538689													
WG538689ICV	ICV	03/22/22 22:45	II220311-1	2		1.965	mg/L	98	95	105			
WG538689ICB	ICB	03/22/22 22:51				U	mg/L		-0.024	0.024			
WG538689LFB	LFB	03/22/22 23:04	II220314-2	.5005		.5135	mg/L	103	85	115			
L71800-02AS	AS	03/22/22 23:10	II220314-2	.5005	.0854	.593	mg/L	101	85	115			
L71800-02ASD	ASD	03/22/22 23:13	II220314-2	.5005	.0854	.5889	mg/L	101	85	115	1	20	
WG538686													
WG538686ICV	ICV	03/24/22 3:45	II220311-1	2		1.958	mg/L	98	95	105			
WG538686ICB	ICB	03/24/22 3:51				U	mg/L		-0.024	0.024			
WG538686LFB	LFB	03/24/22 4:03	II220314-2	.5005		.533	mg/L	106	85	115			
L71800-01AS	AS	03/24/22 4:15	II220314-2	.5005	.083	.5984	mg/L	103	85	115			
L71800-01ASD	ASD	03/24/22 4:18	II220314-2	.5005	.083	.6147	mg/L	106	85	115	3	20	

EFRC

ACZ Project ID: **L71800**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Nitrate/Nitrite as N M353.2 - H2SO4 preserved

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG539062													
WG539062ICV	ICV	03/26/22 19:51	WI220301-7	2.4161		2.302	mg/L	95	90	110			
WG539062ICB	ICB	03/26/22 19:52				U	mg/L		-0.02	0.02			
WG539067													
WG539067LFB1	LFB	03/27/22 0:35	WI211001-5	2		2.052	mg/L	103	90	110			
L71799-01AS	AS	03/27/22 0:37	WI211001-5	2	.281	2.415	mg/L	107	90	110			
L71800-01DUP	DUP	03/27/22 0:40			U	U	mg/L				0	20	RA
WG539067LFB2	LFB	03/27/22 1:15	WI211001-5	2		2.07	mg/L	104	90	110			

pH (lab) SM4500H+ B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG537908													
WG537908LCSW1	LCSW	03/08/22 20:10	PCN64057	6		6.1	units	102	5.9	6.1			
WG537908LCSW4	LCSW	03/08/22 22:35	PCN64057	6		6.1	units	102	5.9	6.1			
WG537908LCSW7	LCSW	03/09/22 1:59	PCN64057	6		6.1	units	102	5.9	6.1			
L71802-01DUP	DUP	03/09/22 4:03			8.3	8.3	units				0	20	
WG537908LCSW10	LCSW	03/09/22 5:42	PCN64057	6		6.1	units	102	5.9	6.1			
WG537908LCSW13	LCSW	03/09/22 9:12	PCN64057	6		6.1	units	102	5.9	6.1			

Potassium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG538689													
WG538689ICV	ICV	03/22/22 22:45	II220311-1	20		19.68	mg/L	98	95	105			
WG538689ICB	ICB	03/22/22 22:51				U	mg/L		-0.6	0.6			
WG538689LFB	LFB	03/22/22 23:04	II220314-2	99.95169		100.9	mg/L	101	85	115			
L71800-02AS	AS	03/22/22 23:10	II220314-2	99.95169	1.61	105.2	mg/L	104	85	115			
L71800-02ASD	ASD	03/22/22 23:13	II220314-2	99.95169	1.61	104.4	mg/L	103	85	115	1	20	
WG538686													
WG538686ICV	ICV	03/24/22 3:45	II220311-1	20		19.65	mg/L	98	95	105			
WG538686ICB	ICB	03/24/22 3:51				U	mg/L		-0.6	0.6			
WG538686LFB	LFB	03/24/22 4:03	II220314-2	99.95169		104.1	mg/L	104	85	115			
L71800-01AS	AS	03/24/22 4:15	II220314-2	99.95169	1.72	108.3	mg/L	107	85	115			
L71800-01ASD	ASD	03/24/22 4:18	II220314-2	99.95169	1.72	109.9	mg/L	108	85	115	1	20	

Residue, Filterable (TDS) @180C SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG537903													
WG537903PBW	PBW	03/08/22 15:41				U	mg/L		-20	20			
WG537903LCSW	LCSW	03/08/22 15:43	PCN64711	1000		972	mg/L	97	80	120			
L71807-05DUP	DUP	03/08/22 16:12			1790	1792	mg/L				0	10	

EFRC

ACZ Project ID: **L71800**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Selenium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG538663													
WG538663ICV	ICV	03/21/22 17:43	MS220125-1	.05		.05154	mg/L	103	90	110			
WG538663ICB	ICB	03/21/22 17:45				U	mg/L		-0.00022	0.00022			
WG538663LFB	LFB	03/21/22 17:47	MS220228-9	.05		.05086	mg/L	102	85	115			
L71750-04AS	AS	03/21/22 17:56	MS220228-9	.05	.00017	.05449	mg/L	109	70	130			
L71750-04ASD	ASD	03/21/22 17:58	MS220228-9	.05	.00017	.05426	mg/L	108	70	130	0	20	
L71893-01AS	AS	03/21/22 18:24	MS220228-9	.05	.00388	.0612	mg/L	115	70	130			
L71893-01ASD	ASD	03/21/22 18:26	MS220228-9	.05	.00388	.05997	mg/L	112	70	130	2	20	

Sodium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG538689													
WG538689ICV	ICV	03/22/22 22:45	II220311-1	100		99.38	mg/L	99	95	105			
WG538689ICB	ICB	03/22/22 22:51				U	mg/L		-0.6	0.6			
WG538689LFB	LFB	03/22/22 23:04	II220314-2	100.0039		101.2	mg/L	101	85	115			
L71800-02AS	AS	03/22/22 23:10	II220314-2	100.0039	3.18	106.9	mg/L	104	85	115			
L71800-02ASD	ASD	03/22/22 23:13	II220314-2	100.0039	3.18	106.2	mg/L	103	85	115	1	20	
WG538686													
WG538686ICV	ICV	03/24/22 3:45	II220311-1	100		98.98	mg/L	99	95	105			
WG538686ICB	ICB	03/24/22 3:51				U	mg/L		-0.6	0.6			
WG538686LFB	LFB	03/24/22 4:03	II220314-2	100.0039		104.9	mg/L	105	85	115			
L71800-01AS	AS	03/24/22 4:15	II220314-2	100.0039	3.26	110.5	mg/L	107	85	115			
L71800-01ASD	ASD	03/24/22 4:18	II220314-2	100.0039	3.26	112	mg/L	109	85	115	1	20	

Sulfate D516-02/-07/-11 - TURBIDIMETRIC

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG538879													
WG538879ICB	ICB	03/24/22 8:36				U	mg/L		-3	3			
WG538879ICV	ICV	03/24/22 8:36	WI220316-7	20.46		20.3	mg/L	99	90	110			
WG538879LFB	LFB	03/24/22 9:01	WI211230-5	9.95		10	mg/L	101	90	110			
L71772-02AS	AS	03/24/22 9:20	SO4TURB25X	50	3750	3738.1	mg/L	-24	90	110			M3
L71771-02DUP	DUP	03/24/22 9:30			1570	1549.4	mg/L				1	20	

Thallium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG538663													
WG538663ICV	ICV	03/21/22 17:43	MS220125-1	.05		.05264	mg/L	105	90	110			
WG538663ICB	ICB	03/21/22 17:45				U	mg/L		-0.00022	0.00022			
WG538663LFB	LFB	03/21/22 17:47	MS220228-9	.05		.05083	mg/L	102	85	115			
L71750-04AS	AS	03/21/22 17:56	MS220228-9	.05	U	.05152	mg/L	103	70	130			
L71750-04ASD	ASD	03/21/22 17:58	MS220228-9	.05	U	.05201	mg/L	104	70	130	1	20	
L71893-01AS	AS	03/21/22 18:24	MS220228-9	.05	U	.05827	mg/L	117	70	130			
L71893-01ASD	ASD	03/21/22 18:26	MS220228-9	.05	U	.0586	mg/L	117	70	130	1	20	

EFRC

ACZ Project ID: **L71800**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Uranium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG538663													
WG538663ICV	ICV	03/21/22 17:43	MS220125-1	.05		.05248	mg/L	105	90	110			
WG538663ICB	ICB	03/21/22 17:45				U	mg/L		-0.00022	0.00022			
WG538663LFB	LFB	03/21/22 17:47	MS220228-9	.05		.05207	mg/L	104	85	115			
L71750-04AS	AS	03/21/22 17:56	MS220228-9	.05	.00835	.06014	mg/L	104	70	130			
L71750-04ASD	ASD	03/21/22 17:58	MS220228-9	.05	.00835	.06021	mg/L	104	70	130	0	20	
L71893-01AS	AS	03/21/22 18:24	MS220228-9	.05	.00615	.06704	mg/L	122	70	130			
L71893-01ASD	ASD	03/21/22 18:26	MS220228-9	.05	.00615	.06735	mg/L	122	70	130	0	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L71800**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L71800-01	WG538663	Beryllium, dissolved	M200.8 ICP-MS	VC	CCV recovery was above the acceptance limits. Target analyte was not detected in the sample [$<$ MDL].
	WG539067	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation ($<$ 10x MDL).
	WG538879	Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
L71800-02	WG538663	Beryllium, dissolved	M200.8 ICP-MS	VC	CCV recovery was above the acceptance limits. Target analyte was not detected in the sample [$<$ MDL].
	WG538689	Calcium, dissolved	M200.7 ICP	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
	WG539067	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation ($<$ 10x MDL).
	WG538879	Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
L71800-03	WG538663	Beryllium, dissolved	M200.8 ICP-MS	VC	CCV recovery was above the acceptance limits. Target analyte was not detected in the sample [$<$ MDL].
	WG538689	Calcium, dissolved	M200.7 ICP	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
	WG539067	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation ($<$ 10x MDL).
	WG538879	Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
L71800-04	WG538663	Beryllium, dissolved	M200.8 ICP-MS	VC	CCV recovery was above the acceptance limits. Target analyte was not detected in the sample [$<$ MDL].
	WG538689	Calcium, dissolved	M200.7 ICP	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
	WG537908	Conductivity @25C	SM2510B	ZW	Method deviation. The sample was centrifuged prior to analysis due to high solid content.
	WG539067	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation ($<$ 10x MDL).
	WG537908	pH	SM4500H+ B	ZW	Method deviation. The sample was centrifuged prior to analysis due to high solid content.
	WG538879	Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG537908	Total Alkalinity	SM2320B - Titration	ZW	Method deviation. The sample was centrifuged prior to analysis due to high solid content.
L71800-05	WG538663	Beryllium, dissolved	M200.8 ICP-MS	VC	CCV recovery was above the acceptance limits. Target analyte was not detected in the sample [$<$ MDL].
	WG538689	Calcium, dissolved	M200.7 ICP	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
	WG539067	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation ($<$ 10x MDL).
	WG538879	Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L71800**

No certification qualifiers associated with this analysis

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L71800

Date Received: 03/04/2022 09:20

Received By:

Date Printed: 3/7/2022

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody form or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?		X	
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody form complete and accurate?	X		
7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples?		X	

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits? ¹	X		
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?	X		

NA indicates Not Applicable

Chain of Custody Related Remarks

The 'Relinquished By' field on the COC was not completed. The project manager is contacting the client.

Client Contact Remarks

Shipping Containers

Cooler Id	Temp (°C)	Temp Criteria (°C)	Rad (µR/Hr)	Custody Seal Intact?
3455	2.2	<=6.0	15	Yes

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L71800
Date Received: 03/04/2022 09:20
Received By:
Date Printed: 3/7/2022

¹ The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na₂S₂O₃ preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).



Laboratories, Inc.

L71800

CHAIN of CUSTODY

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Report to:

Name: Kathy Weinel
Company: Energy Fuels
E-mail: kweinel@energyfuels.com

Address: 225 Union Blvd. Suite 600
Lakewood, CO 80928
Telephone: 303-389-4134

Copy of Report to:

Name:
Company:

E-mail:
Telephone:

Invoice to:

Name: Kathy Weinel
Company: Energy Fuels
E-mail: kweinel@energyfuels.com

Address: 225 Union Blvd, Suite 600
Lakewood, CO 80928
Telephone: 303-389-4134

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses?

YES [X]
NO []

Are samples for SDWA Compliance Monitoring?

Yes [] No [X]

If yes, please include state forms. Results will be reported to PQL for Colorado.

Sampler's Name: Matt Germonster
Sampler's Site Information State AZ Zip code Time Zone

*Sampler's Signature: [Signature]

I attest to the authenticity and validity of this sample. I understand that intentionally mislabeling the time/date/location or tampering with the sample in anyway, is considered fraud and punishable by State Law.

PROJECT INFORMATION

ANALYSES REQUESTED (attach list or use quote number)

Quote #: PP-GW-INDAPP

PO#:

Reporting state for compliance testing:

Check box if samples include NRC licensed material?

SAMPLE IDENTIFICATION DATE:TIME Matrix

Table with columns: SAMPLE IDENTIFICATION, DATE:TIME, Matrix, # of Containers. Rows include MW01-03032022, MW02-02282022, etc.

Table for ANALYSES REQUESTED with handwritten entries: See Quote, No Rads, See Quote.

Matrix SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS

See Quote, No Rads, Normal TAT

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

Table for RELINQUISHED BY and RECEIVED BY with signature and date: 3/4/22 9:20

L71800 Chain of Custody

March 28, 2022

Report to:

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

Bill to:

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

Project ID:

ACZ Project ID: L71801

Kathy Weinel:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on March 04, 2022. This project has been assigned to ACZ's project number, L71801. Please reference this number in all future inquiries.

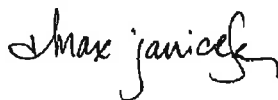
All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L71801. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after April 27, 2022. If the samples are determined to be hazardous, additional charges apply for disposal (typically \$11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.



Max Janicek has reviewed and approved this report.



Energy Fuels Resources (USA) Inc.
 Project ID:
 Sample ID: PREWTP 02282022

ACZ Sample ID: **L71801-01**
 Date Sampled: 02/28/22 13:10
 Date Received: 03/04/22
 Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Total Recoverable Digestion	M200.2 ICP-MS				*				03/17/22 13:46	kja
Total Recoverable Digestion	M200.2 ICP								03/15/22 16:48	aeh

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total recoverable	M200.8 ICP-MS	2	0.00439			mg/L	0.0008	0.004	03/18/22 12:41	kja
Arsenic, total recoverable	M200.8 ICP-MS	2	0.174			mg/L	0.0004	0.002	03/18/22 12:41	kja
Barium, total recoverable	M200.7 ICP	1	0.0350			mg/L	0.007	0.035	03/16/22 19:29	wtc
Beryllium, total recoverable	M200.8 ICP-MS	2	<0.00016	U		mg/L	0.00016	0.0005	03/18/22 12:41	kja
Cadmium, total recoverable	M200.8 ICP-MS	2	0.000322	B		mg/L	0.0001	0.0005	03/18/22 12:41	kja
Calcium, total recoverable	M200.7 ICP	1	62.1			mg/L	0.1	0.5	03/16/22 19:29	wtc
Chromium, total recoverable	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	03/16/22 19:29	wtc
Copper, total recoverable	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	03/16/22 19:29	wtc
Iron, total recoverable	M200.7 ICP	1	0.062	B		mg/L	0.06	0.15	03/16/22 19:29	wtc
Lead, total recoverable	M200.8 ICP-MS	2	0.00074	B		mg/L	0.0002	0.001	03/18/22 12:41	kja
Magnesium, total recoverable	M200.7 ICP	1	49.7			mg/L	0.2	1	03/16/22 19:29	wtc
Manganese, total recoverable	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	03/16/22 19:29	wtc
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	03/11/22 14:30	mlh
Nickel, total recoverable	M200.7 ICP	1	0.127			mg/L	0.008	0.04	03/16/22 19:29	wtc
Potassium, total recoverable	M200.7 ICP	1	2.66			mg/L	0.2	1	03/16/22 19:29	wtc
Selenium, total recoverable	M200.8 ICP-MS	2	0.00062			mg/L	0.0002	0.0005	03/18/22 12:41	kja
Sodium, total recoverable	M200.7 ICP	1	9.18			mg/L	0.2	1	03/16/22 19:29	wtc
Thallium, total recoverable	M200.8 ICP-MS	2	0.00163			mg/L	0.0002	0.001	03/18/22 12:41	kja
Uranium, total recoverable	M200.8 ICP-MS	2	0.0332			mg/L	0.0002	0.001	03/18/22 12:41	kja
Vanadium, total recoverable	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	03/19/22 12:16	jlw
Zinc, total recoverable	M200.7 ICP	1	0.084			mg/L	0.02	0.05	03/16/22 19:29	wtc

Energy Fuels Resources (USA) Inc.
 Project ID:
 Sample ID: PREWTP 02282022

ACZ Sample ID: **L71801-01**
 Date Sampled: 02/28/22 13:10
 Date Received: 03/04/22
 Sample Matrix: Groundwater

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	182			mg/L	2	20	03/09/22 0:00	jck
Carbonate as CaCO3		1	14.3	B		mg/L	2	20	03/09/22 0:00	jck
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	03/09/22 0:00	jck
Total Alkalinity		1	197			mg/L	2	20	03/09/22 0:00	jck
Conductivity @25C	SM2510B	1	673			umhos/cm	1	10	03/09/22 3:36	jck
Fluoride	SM4500F-C	1	0.19	B		mg/L	0.15	0.35	03/21/22 17:59	emk
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	<0.02	U	*	mg/L	0.02	0.1	03/27/22 0:51	pjb
pH (lab)	SM4500H+ B									
pH		1	8.5	H		units	0.1	0.1	03/09/22 0:00	jck
pH measured at		1	21.4			C	0.1	0.1	03/09/22 0:00	jck
Residue, Filterable (TDS) @180C	SM2540C	1	448			mg/L	20	40	03/04/22 18:51	jck
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	25	151		*	mg/L	25	125	03/24/22 9:16	mjj1

Arizona license number: AZ0102

Energy Fuels Resources (USA) Inc.
 Project ID:
 Sample ID: POSTWTP 02282022

ACZ Sample ID: **L71801-02**
 Date Sampled: 02/28/22 13:55
 Date Received: 03/04/22
 Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Total Recoverable Digestion	M200.2 ICP-MS								03/17/22 14:24	kja
Total Recoverable Digestion	M200.2 ICP								03/15/22 17:31	aeh

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total recoverable	M200.8 ICP-MS	1	0.00320			mg/L	0.0004	0.002	03/18/22 12:47	kja
Arsenic, total recoverable	M200.8 ICP-MS	1	0.0229			mg/L	0.0002	0.001	03/18/22 12:47	kja
Barium, total recoverable	M200.7 ICP	1	0.0306	B		mg/L	0.007	0.035	03/16/22 19:38	wtc
Beryllium, total recoverable	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	03/18/22 12:47	kja
Cadmium, total recoverable	M200.8 ICP-MS	1	0.000341			mg/L	0.00005	0.00025	03/18/22 12:47	kja
Calcium, total recoverable	M200.7 ICP	1	60.2			mg/L	0.1	0.5	03/16/22 19:38	wtc
Chromium, total recoverable	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	03/16/22 19:38	wtc
Copper, total recoverable	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	03/16/22 19:38	wtc
Iron, total recoverable	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	03/16/22 19:38	wtc
Lead, total recoverable	M200.8 ICP-MS	1	0.00011	B		mg/L	0.0001	0.0005	03/18/22 12:47	kja
Magnesium, total recoverable	M200.7 ICP	1	52.1			mg/L	0.2	1	03/16/22 19:38	wtc
Manganese, total recoverable	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	03/16/22 19:38	wtc
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	03/11/22 14:31	mlh
Nickel, total recoverable	M200.7 ICP	1	0.124			mg/L	0.008	0.04	03/16/22 19:38	wtc
Potassium, total recoverable	M200.7 ICP	1	2.92			mg/L	0.2	1	03/16/22 19:38	wtc
Selenium, total recoverable	M200.8 ICP-MS	1	0.00072			mg/L	0.0001	0.00025	03/18/22 12:47	kja
Sodium, total recoverable	M200.7 ICP	1	10.1			mg/L	0.2	1	03/16/22 19:38	wtc
Thallium, total recoverable	M200.8 ICP-MS	1	0.00158			mg/L	0.0001	0.0005	03/18/22 12:47	kja
Uranium, total recoverable	M200.8 ICP-MS	1	0.00121			mg/L	0.0001	0.0005	03/18/22 12:47	kja
Vanadium, total recoverable	M200.7 ICP	1	0.016	B		mg/L	0.01	0.025	03/19/22 12:25	jlw
Zinc, total recoverable	M200.7 ICP	1	0.112			mg/L	0.02	0.05	03/16/22 19:38	wtc

Energy Fuels Resources (USA) Inc.
 Project ID:
 Sample ID: POSTWTP 02282022

ACZ Sample ID: **L71801-02**
 Date Sampled: 02/28/22 13:55
 Date Received: 03/04/22
 Sample Matrix: Groundwater

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	58.5			mg/L	2	20	03/09/22 0:00	jck
Carbonate as CaCO3		1	<2	U		mg/L	2	20	03/09/22 0:00	jck
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	03/09/22 0:00	jck
Total Alkalinity		1	58.5			mg/L	2	20	03/09/22 0:00	jck
Conductivity @25C	SM2510B	1	719			umhos/cm	1	10	03/09/22 3:44	jck
Fluoride	SM4500F-C	1	0.21	B		mg/L	0.15	0.35	03/21/22 18:07	emk
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	<0.02	U	*	mg/L	0.02	0.1	03/27/22 0:52	pjb
pH (lab)	SM4500H+ B									
pH		1	7.4	H		units	0.1	0.1	03/09/22 0:00	jck
pH measured at		1	21.3			C	0.1	0.1	03/09/22 0:00	jck
Residue, Filterable (TDS) @180C	SM2540C	1	518			mg/L	20	40	03/04/22 18:53	jck
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	25	298		*	mg/L	25	125	03/24/22 9:25	mjj1

Arizona license number: AZ0102

EFRC

ACZ Project ID: **L71801**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Alkalinity as CaCO3 SM2320B - Titration

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG537908													
WG537908PBW1	PBW	03/08/22 20:06				18.2	mg/L		-20	20			
WG537908LCSW3	LCSW	03/08/22 20:23	WC220223-1	820.0001		782.8	mg/L	95	90	110			
WG537908LCSW6	LCSW	03/08/22 22:49	WC220223-1	820.0001		815.6	mg/L	99	90	110			
WG537908PBW2	PBW	03/08/22 22:56				4.3	mg/L		-20	20			
WG537908LCSW9	LCSW	03/09/22 2:13	WC220223-1	820.0001		829.8	mg/L	101	90	110			
WG537908PBW3	PBW	03/09/22 2:20				4.6	mg/L		-20	20			
L71802-01DUP	DUP	03/09/22 4:03			114	127.7	mg/L				11	20	
WG537908LCSW12	LCSW	03/09/22 5:56	WC220223-1	820.0001		836.1	mg/L	102	90	110			
WG537908PBW4	PBW	03/09/22 6:03				3.9	mg/L		-20	20			
WG537908LCSW15	LCSW	03/09/22 9:27	WC220223-1	820.0001		844.8	mg/L	103	90	110			

Antimony, total recoverable M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG538506													
WG538506ICV	ICV	03/18/22 12:10	MS220125-1	.0201		.01916	mg/L	95	90	110			
WG538506ICB	ICB	03/18/22 12:12				U	mg/L		-0.0012	0.0012			
WG538406LRB	LRB	03/18/22 12:14				U	mg/L		-0.00088	0.00088			
WG538406LFB	LFB	03/18/22 12:16	MS220228-9	.01		.01033	mg/L	103	85	115			
L71801-01LFM	LFM	03/18/22 12:43	MS2XW	.02002	.00439	.02533	mg/L	105	70	130			
L71801-01LFMD	LFMD	03/18/22 12:45	MS2XW	.02002	.00439	.02599	mg/L	108	70	130	3	20	
L71967-02LFM	LFM	03/18/22 13:05	MS220228-9	.01	U	.01084	mg/L	108	70	130			
L71967-02LFMD	LFMD	03/18/22 13:07	MS220228-9	.01	U	.01079	mg/L	108	70	130	0	20	

Arsenic, total recoverable M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG538506													
WG538506ICV	ICV	03/18/22 12:10	MS220125-1	.05		.05036	mg/L	101	90	110			
WG538506ICB	ICB	03/18/22 12:12				U	mg/L		-0.0006	0.0006			
WG538406LRB	LRB	03/18/22 12:14				U	mg/L		-0.00044	0.00044			
WG538406LFB	LFB	03/18/22 12:16	MS220228-9	.05005		.04737	mg/L	95	85	115			
L71801-01LFM	LFM	03/18/22 12:43	MS2XW	.1002	.174	.27262	mg/L	98	70	130			
L71801-01LFMD	LFMD	03/18/22 12:45	MS2XW	.1002	.174	.27921	mg/L	105	70	130	2	20	
L71967-02LFM	LFM	03/18/22 13:05	MS220228-9	.05005	.00024	.04997	mg/L	99	70	130			
L71967-02LFMD	LFMD	03/18/22 13:07	MS220228-9	.05005	.00024	.05048	mg/L	100	70	130	1	20	

Barium, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG538356													
WG538356ICV	ICV	03/16/22 17:56	II220311-1	2		1.9922	mg/L	100	95	105			
WG538356ICB	ICB	03/16/22 18:02				U	mg/L		-0.021	0.021			
WG538270LRB	LRB	03/16/22 18:15				U	mg/L		-0.0154	0.0154			
WG538270LFB	LFB	03/16/22 18:18	II220314-2	.5		.4929	mg/L	99	85	115			
L71801-01LFM	LFM	03/16/22 19:32	II220314-2	.5	.035	.5281	mg/L	99	70	130			
L71801-01LFMD	LFMD	03/16/22 19:35	II220314-2	.5	.035	.5268	mg/L	98	70	130	0	20	
L71801-02LFM	LFM	03/16/22 19:41	II220314-2	.5	.0306	.525	mg/L	99	70	130			
L71801-02LFMD	LFMD	03/16/22 19:44	II220314-2	.5	.0306	.5219	mg/L	98	70	130	1	20	

EFRC

ACZ Project ID: **L71801**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Beryllium, total recoverable

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG538506													
WG538506ICV	ICV	03/18/22 12:10	MS220125-1	.05		.050846	mg/L	102	90	110			
WG538506ICB	ICB	03/18/22 12:12				.000114	mg/L		-0.00024	0.00024			
WG538406LRB	LRB	03/18/22 12:14				U	mg/L		-0.000176	0.000176			
WG538406LFB	LFB	03/18/22 12:16	MS220228-9	.05005		.051687	mg/L	103	85	115			
L71801-01LFM	LFM	03/18/22 12:43	MS2XW	.1001	U	.097811	mg/L	98	70	130			
L71801-01LFMD	LFMD	03/18/22 12:45	MS2XW	.1001	U	.098384	mg/L	98	70	130	1	20	
L71967-02LFM	LFM	03/18/22 13:05	MS220228-9	.05005	U	.047853	mg/L	96	70	130			
L71967-02LFMD	LFMD	03/18/22 13:07	MS220228-9	.05005	U	.047419	mg/L	95	70	130	1	20	

Cadmium, total recoverable

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG538506													
WG538506ICV	ICV	03/18/22 12:10	MS220125-1	.05		.051971	mg/L	104	90	110			
WG538506ICB	ICB	03/18/22 12:12				U	mg/L		-0.00015	0.00015			
WG538406LRB	LRB	03/18/22 12:14				U	mg/L		-0.00011	0.00011			
WG538406LFB	LFB	03/18/22 12:16	MS220228-9	.05005		.050512	mg/L	101	85	115			
L71801-01LFM	LFM	03/18/22 12:43	MS2XW	.1001	.000322	.098405	mg/L	98	70	130			
L71801-01LFMD	LFMD	03/18/22 12:45	MS2XW	.1001	.000322	.100619	mg/L	100	70	130	2	20	
L71967-02LFM	LFM	03/18/22 13:05	MS220228-9	.05005	U	.049604	mg/L	99	70	130			
L71967-02LFMD	LFMD	03/18/22 13:07	MS220228-9	.05005	U	.050249	mg/L	100	70	130	1	20	

Calcium, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG538356													
WG538356ICV	ICV	03/16/22 17:56	I1220311-1	100		99.1	mg/L	99	95	105			
WG538356ICB	ICB	03/16/22 18:02				U	mg/L		-0.3	0.3			
WG538270LRB	LRB	03/16/22 18:15				U	mg/L		-0.22	0.22			
WG538270LFB	LFB	03/16/22 18:18	I1220314-2	67.99026		62.97	mg/L	93	85	115			
L71801-01LFM	LFM	03/16/22 19:32	I1220314-2	67.99026	62.1	124.9	mg/L	92	70	130			
L71801-01LFMD	LFMD	03/16/22 19:35	I1220314-2	67.99026	62.1	124.8	mg/L	92	70	130	0	20	
L71801-02LFM	LFM	03/16/22 19:41	I1220314-2	67.99026	60.2	122.8	mg/L	92	70	130			
L71801-02LFMD	LFMD	03/16/22 19:44	I1220314-2	67.99026	60.2	121.7	mg/L	90	70	130	1	20	

Chromium, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG538356													
WG538356ICV	ICV	03/16/22 17:56	I1220311-1	2		1.972	mg/L	99	95	105			
WG538356ICB	ICB	03/16/22 18:02				U	mg/L		-0.06	0.06			
WG538270LRB	LRB	03/16/22 18:15				U	mg/L		-0.044	0.044			
WG538270LFB	LFB	03/16/22 18:18	I1220314-2	.5005		.504	mg/L	101	85	115			
L71801-01LFM	LFM	03/16/22 19:32	I1220314-2	.5005	U	.494	mg/L	99	70	130			
L71801-01LFMD	LFMD	03/16/22 19:35	I1220314-2	.5005	U	.493	mg/L	99	70	130	0	20	
L71801-02LFM	LFM	03/16/22 19:41	I1220314-2	.5005	U	.498	mg/L	100	70	130			
L71801-02LFMD	LFMD	03/16/22 19:44	I1220314-2	.5005	U	.495	mg/L	99	70	130	1	20	

EFRC

ACZ Project ID: **L71801**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Conductivity @25C

SM2510B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG537908													
WG537908LCSW2	LCSW	03/08/22 20:12	PCN65017	1408		1379	umhos/cm	98	90	110			
WG537908LCSW5	LCSW	03/08/22 22:37	PCN65017	1408		1377	umhos/cm	98	90	110			
WG537908LCSW8	LCSW	03/09/22 2:00	PCN65017	1408		1365	umhos/cm	97	90	110			
L71802-01DUP	DUP	03/09/22 4:03			307	308	umhos/cm				0	20	
WG537908LCSW11	LCSW	03/09/22 5:43	PCN65017	1408		1361	umhos/cm	97	90	110			
WG537908LCSW14	LCSW	03/09/22 9:14	PCN65017	1408		1350	umhos/cm	96	90	110			

Copper, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG538356													
WG538356ICV	ICV	03/16/22 17:56	I1220311-1	2		2.005	mg/L	100	95	105			
WG538356ICB	ICB	03/16/22 18:02				U	mg/L		-0.03	0.03			
WG538270LRB	LRB	03/16/22 18:15				U	mg/L		-0.022	0.022			
WG538270LFB	LFB	03/16/22 18:18	I1220314-2	.5		.495	mg/L	99	85	115			
L71801-01LFM	LFM	03/16/22 19:32	I1220314-2	.5	U	.503	mg/L	101	70	130			
L71801-01LFMD	LFMD	03/16/22 19:35	I1220314-2	.5	U	.498	mg/L	100	70	130	1	20	
L71801-02LFM	LFM	03/16/22 19:41	I1220314-2	.5	U	.494	mg/L	99	70	130			
L71801-02LFMD	LFMD	03/16/22 19:44	I1220314-2	.5	U	.494	mg/L	99	70	130	0	20	

Fluoride

SM4500F-C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG538615													
WG538615ICV	ICV	03/21/22 11:12	WC220314-1	2.008		1.98	mg/L	99	90	110			
WG538615ICB	ICB	03/21/22 11:20				U	mg/L		-0.3	0.3			
WG538654													
WG538654ICV	ICV	03/21/22 15:43	WC220314-1	2.008		2.01	mg/L	100	90	110			
WG538654ICB	ICB	03/21/22 15:51				U	mg/L		-0.3	0.3			
WG538654LFB1	LFB	03/21/22 16:03	WC220104-2	5.02		5.32	mg/L	106	90	110			
L71750-06AS	AS	03/21/22 16:29	WC220104-2	5.02	.31	5.48	mg/L	103	90	110			
L71750-06ASD	ASD	03/21/22 16:37	WC220104-2	5.02	.31	5.58	mg/L	105	90	110	2	20	
L71801-02AS	AS	03/21/22 18:15	WC220104-2	5.02	.21	5.1	mg/L	97	90	110			
L71801-02ASD	ASD	03/21/22 18:23	WC220104-2	5.02	.21	5.12	mg/L	98	90	110	0	20	
WG538654LFB2	LFB	03/21/22 19:45	WC220104-2	5.02		5.25	mg/L	105	90	110			

Iron, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG538356													
WG538356ICV	ICV	03/16/22 17:56	I1220311-1	2		1.941	mg/L	97	95	105			
WG538356ICB	ICB	03/16/22 18:02				U	mg/L		-0.18	0.18			
WG538270LRB	LRB	03/16/22 18:15				U	mg/L		-0.132	0.132			
WG538270LFB	LFB	03/16/22 18:18	I1220314-2	1.0001		.999	mg/L	100	85	115			
L71801-01LFM	LFM	03/16/22 19:32	I1220314-2	1.0001	.062	1.062	mg/L	100	70	130			
L71801-01LFMD	LFMD	03/16/22 19:35	I1220314-2	1.0001	.062	1.062	mg/L	100	70	130	0	20	
L71801-02LFM	LFM	03/16/22 19:41	I1220314-2	1.0001	U	1.023	mg/L	102	70	130			
L71801-02LFMD	LFMD	03/16/22 19:44	I1220314-2	1.0001	U	1.035	mg/L	103	70	130	1	20	

EFRC

ACZ Project ID: **L71801**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Lead, total recoverable

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG538506													
WG538506ICV	ICV	03/18/22 12:10	MS220125-1	.05		.05167	mg/L	103	90	110			
WG538506ICB	ICB	03/18/22 12:12				U	mg/L		-0.0003	0.0003			
WG538406LRB	LRB	03/18/22 12:14				U	mg/L		-0.00022	0.00022			
WG538406LFB	LFB	03/18/22 12:16	MS220228-9	.0501		.04958	mg/L	99	85	115			
L71801-01LFM	LFM	03/18/22 12:43	MS2XW	.1001	.00074	.10018	mg/L	99	70	130			
L71801-01LFMD	LFMD	03/18/22 12:45	MS2XW	.1001	.00074	.101	mg/L	100	70	130	1	20	
L71967-02LFM	LFM	03/18/22 13:05	MS220228-9	.0501	.00028	.05041	mg/L	100	70	130			
L71967-02LFMD	LFMD	03/18/22 13:07	MS220228-9	.0501	.00028	.051	mg/L	101	70	130	1	20	

Magnesium, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG538356													
WG538356ICV	ICV	03/16/22 17:56	I1220311-1	100		94.64	mg/L	95	95	105			
WG538356ICB	ICB	03/16/22 18:02				U	mg/L		-0.6	0.6			
WG538270LRB	LRB	03/16/22 18:15				U	mg/L		-0.44	0.44			
WG538270LFB	LFB	03/16/22 18:18	I1220314-2	49.99828		47.5	mg/L	95	85	115			
L71801-01LFM	LFM	03/16/22 19:32	I1220314-2	49.99828	49.7	97.01	mg/L	95	70	130			
L71801-01LFMD	LFMD	03/16/22 19:35	I1220314-2	49.99828	49.7	96.79	mg/L	94	70	130	0	20	
L71801-02LFM	LFM	03/16/22 19:41	I1220314-2	49.99828	52.1	99.61	mg/L	95	70	130			
L71801-02LFMD	LFMD	03/16/22 19:44	I1220314-2	49.99828	52.1	98.38	mg/L	93	70	130	1	20	

Manganese, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG538356													
WG538356ICV	ICV	03/16/22 17:56	I1220311-1	2		1.943	mg/L	97	95	105			
WG538356ICB	ICB	03/16/22 18:02				U	mg/L		-0.03	0.03			
WG538270LRB	LRB	03/16/22 18:15				U	mg/L		-0.022	0.022			
WG538270LFB	LFB	03/16/22 18:18	I1220314-2	.499		.497	mg/L	100	85	115			
L71801-01LFM	LFM	03/16/22 19:32	I1220314-2	.499	U	.493	mg/L	99	70	130			
L71801-01LFMD	LFMD	03/16/22 19:35	I1220314-2	.499	U	.493	mg/L	99	70	130	0	20	
L71801-02LFM	LFM	03/16/22 19:41	I1220314-2	.499	U	.498	mg/L	100	70	130			
L71801-02LFMD	LFMD	03/16/22 19:44	I1220314-2	.499	U	.496	mg/L	99	70	130	0	20	

Mercury, total

M245.1 CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG538090													
WG538090ICV	ICV	03/11/22 12:33	HG220301-3	.00501		.00503	mg/L	100	90	110			
WG538090ICB	ICB	03/11/22 12:34				U	mg/L		-0.0006	0.0006			
WG538093													
WG538093LRB	LRB	03/11/22 14:17				U	mg/L		-0.00044	0.00044			
WG538093LFB	LFB	03/11/22 14:18	HG220301-6	.002002		.00197	mg/L	98	85	115			
L71799-01LFM	LFM	03/11/22 14:28	HG220301-6	.002002	U	.00197	mg/L	98	85	115			
L71799-01LFMD	LFMD	03/11/22 14:29	HG220301-6	.002002	U	.00193	mg/L	96	85	115	2	20	

EFRC

ACZ Project ID: **L71801**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Nickel, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG538356													
WG538356ICV	ICV	03/16/22 17:56	I1220311-1	2		1.9467	mg/L	97	95	105			
WG538356ICB	ICB	03/16/22 18:02				U	mg/L		-0.024	0.024			
WG538270LRB	LRB	03/16/22 18:15				U	mg/L		-0.0176	0.0176			
WG538270LFB	LFB	03/16/22 18:18	I1220314-2	.5005		.5023	mg/L	100	85	115			
L71801-01LFM	LFM	03/16/22 19:32	I1220314-2	.5005	.127	.6142	mg/L	97	70	130			
L71801-01LFMD	LFMD	03/16/22 19:35	I1220314-2	.5005	.127	.6114	mg/L	97	70	130	0	20	
L71801-02LFM	LFM	03/16/22 19:41	I1220314-2	.5005	.124	.6103	mg/L	97	70	130			
L71801-02LFMD	LFMD	03/16/22 19:44	I1220314-2	.5005	.124	.6055	mg/L	96	70	130	1	20	

Nitrate/Nitrite as N M353.2 - H2SO4 preserved

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG539062													
WG539062ICV	ICV	03/26/22 19:51	W1220301-7	2.4161		2.302	mg/L	95	90	110			
WG539062ICB	ICB	03/26/22 19:52				U	mg/L		-0.02	0.02			
WG539067													
WG539067LFB1	LFB	03/27/22 0:35	W1211001-5	2		2.052	mg/L	103	90	110			
L71799-01AS	AS	03/27/22 0:37	W1211001-5	2	.281	2.415	mg/L	107	90	110			
L71800-01DUP	DUP	03/27/22 0:40			U	U	mg/L				0	20	RA
WG539067LFB2	LFB	03/27/22 1:15	W1211001-5	2		2.07	mg/L	104	90	110			

pH (lab) SM4500H+ B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG537908													
WG537908LCSW1	LCSW	03/08/22 20:10	PCN64057	6		6.1	units	102	5.9	6.1			
WG537908LCSW4	LCSW	03/08/22 22:35	PCN64057	6		6.1	units	102	5.9	6.1			
WG537908LCSW7	LCSW	03/09/22 1:59	PCN64057	6		6.1	units	102	5.9	6.1			
L71802-01DUP	DUP	03/09/22 4:03			8.3	8.3	units				0	20	
WG537908LCSW10	LCSW	03/09/22 5:42	PCN64057	6		6.1	units	102	5.9	6.1			
WG537908LCSW13	LCSW	03/09/22 9:12	PCN64057	6		6.1	units	102	5.9	6.1			

Potassium, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG538356													
WG538356ICV	ICV	03/16/22 17:56	I1220311-1	20		19.66	mg/L	98	95	105			
WG538356ICB	ICB	03/16/22 18:02				U	mg/L		-0.6	0.6			
WG538270LRB	LRB	03/16/22 18:15				U	mg/L		-0.44	0.44			
WG538270LFB	LFB	03/16/22 18:18	I1220314-2	99.95169		97.97	mg/L	98	85	115			
L71801-01LFM	LFM	03/16/22 19:32	I1220314-2	99.95169	2.66	101.3	mg/L	99	70	130			
L71801-01LFMD	LFMD	03/16/22 19:35	I1220314-2	99.95169	2.66	101	mg/L	98	70	130	0	20	
L71801-02LFM	LFM	03/16/22 19:41	I1220314-2	99.95169	2.92	101.7	mg/L	99	70	130			
L71801-02LFMD	LFMD	03/16/22 19:44	I1220314-2	99.95169	2.92	101	mg/L	98	70	130	1	20	

EFRC

ACZ Project ID: **L71801**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Residue, Filterable (TDS) @180C SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG537752													
WG537752PBW	PBW	03/04/22 18:25				U	mg/L		-20	20			
WG537752LCSW	LCSW	03/04/22 18:27	PCN64711	1000		986	mg/L	99	80	120			
L71801-02DUP	DUP	03/04/22 18:56			518	518	mg/L				0	10	

Selenium, total recoverable M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG538506													
WG538506ICV	ICV	03/18/22 12:10	MS220125-1	.05		.05009	mg/L	100	90	110			
WG538506ICB	ICB	03/18/22 12:12				.00018	mg/L		-0.0003	0.0003			
WG538406LRB	LRB	03/18/22 12:14				U	mg/L		-0.00022	0.00022			
WG538406LFB	LFB	03/18/22 12:16	MS220228-9	.05		.04951	mg/L	99	85	115			
L71801-01LFM	LFM	03/18/22 12:43	MS2XW	.1003	.00062	.09682	mg/L	96	70	130			
L71801-01LFMD	LFMD	03/18/22 12:45	MS2XW	.1003	.00062	.09961	mg/L	99	70	130	3	20	
L71967-02LFM	LFM	03/18/22 13:05	MS220228-9	.05	.00026	.04809	mg/L	96	70	130			
L71967-02LFMD	LFMD	03/18/22 13:07	MS220228-9	.05	.00026	.04783	mg/L	95	70	130	1	20	

Sodium, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG538356													
WG538356ICV	ICV	03/16/22 17:56	II220311-1	100		98.82	mg/L	99	95	105			
WG538356ICB	ICB	03/16/22 18:02				U	mg/L		-0.6	0.6			
WG538270LRB	LRB	03/16/22 18:15				U	mg/L		-0.44	0.44			
WG538270LFB	LFB	03/16/22 18:18	II220314-2	100.0039		98.07	mg/L	98	85	115			
L71801-01LFM	LFM	03/16/22 19:32	II220314-2	100.0039	9.18	108.3	mg/L	99	70	130			
L71801-01LFMD	LFMD	03/16/22 19:35	II220314-2	100.0039	9.18	107.8	mg/L	99	70	130	0	20	
L71801-02LFM	LFM	03/16/22 19:41	II220314-2	100.0039	10.1	109	mg/L	99	70	130			
L71801-02LFMD	LFMD	03/16/22 19:44	II220314-2	100.0039	10.1	108.6	mg/L	98	70	130	0	20	

Sulfate D516-02/-07/-11 - TURBIDIMETRIC

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG538879													
WG538879ICB	ICB	03/24/22 8:36				U	mg/L		-3	3			
WG538879ICV	ICV	03/24/22 8:36	WI220316-7	20.46		20.3	mg/L	99	90	110			
WG538879LFB	LFB	03/24/22 9:01	WI211230-5	9.95		10	mg/L	101	90	110			
L71772-02AS	AS	03/24/22 9:20	SO4TURB25X	50	3750	3738.1	mg/L	-24	90	110			M3
L71771-02DUP	DUP	03/24/22 9:30			1570	1549.4	mg/L				1	20	

Thallium, total recoverable M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG538506													
WG538506ICV	ICV	03/18/22 12:10	MS220125-1	.05		.0517	mg/L	103	90	110			
WG538506ICB	ICB	03/18/22 12:12				U	mg/L		-0.0003	0.0003			
WG538406LRB	LRB	03/18/22 12:14				U	mg/L		-0.00022	0.00022			
WG538406LFB	LFB	03/18/22 12:16	MS220228-9	.05		.04917	mg/L	98	85	115			
L71801-01LFM	LFM	03/18/22 12:43	MS2XW	.1002	.00163	.1001	mg/L	98	70	130			
L71801-01LFMD	LFMD	03/18/22 12:45	MS2XW	.1002	.00163	.10115	mg/L	99	70	130	1	20	
L71967-02LFM	LFM	03/18/22 13:05	MS220228-9	.05	U	.04928	mg/L	99	70	130			
L71967-02LFMD	LFMD	03/18/22 13:07	MS220228-9	.05	U	.04969	mg/L	99	70	130	1	20	

EFRC

ACZ Project ID: **L71801**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Uranium, total recoverable M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG538506													
WG538506ICV	ICV	03/18/22 12:10	MS220125-1	.05		.05127	mg/L	103	90	110			
WG538506ICB	ICB	03/18/22 12:12				U	mg/L		-0.0003	0.0003			
WG538406LRB	LRB	03/18/22 12:14				U	mg/L		-0.00022	0.00022			
WG538406LFB	LFB	03/18/22 12:16	MS220228-9	.05		.04834	mg/L	97	85	115			
L71801-01LFM	LFM	03/18/22 12:43	MS2XW	.1	.0332	.13246	mg/L	99	70	130			
L71801-01LFMD	LFMD	03/18/22 12:45	MS2XW	.1	.0332	.13364	mg/L	100	70	130	1	20	
L71967-02LFM	LFM	03/18/22 13:05	MS220228-9	.05	.00018	.0506	mg/L	101	70	130			
L71967-02LFMD	LFMD	03/18/22 13:07	MS220228-9	.05	.00018	.05084	mg/L	101	70	130	0	20	

Vanadium, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG538426													
WG538426ICV	ICV	03/19/22 11:52	II220311-1	2		1.958	mg/L	98	95	105			
WG538426ICB	ICB	03/19/22 11:58				U	mg/L		-0.015	0.015			
WG538270LRB	LRB	03/19/22 12:10				U	mg/L		-0.022	0.022			
WG538270LFB	LFB	03/19/22 12:13	II220314-2	.5005		.4991	mg/L	100	85	115			
L71801-01LFM	LFM	03/19/22 12:19	II220314-2	.5005	U	.5033	mg/L	101	70	130			
L71801-01LFMD	LFMD	03/19/22 12:22	II220314-2	.5005	U	.492	mg/L	98	70	130	2	20	
L71801-02LFM	LFM	03/19/22 12:28	II220314-2	.5005	.016	.499	mg/L	97	70	130			
L71801-02LFMD	LFMD	03/19/22 12:31	II220314-2	.5005	.016	.494	mg/L	96	70	130	1	20	

Zinc, total recoverable M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG538356													
WG538356ICV	ICV	03/16/22 17:56	II220311-1	2		1.897	mg/L	95	95	105			
WG538356ICB	ICB	03/16/22 18:02				U	mg/L		-0.06	0.06			
WG538270LRB	LRB	03/16/22 18:15				U	mg/L		-0.044	0.044			
WG538270LFB	LFB	03/16/22 18:18	II220314-2	.50045		.503	mg/L	101	85	115			
L71801-01LFM	LFM	03/16/22 19:32	II220314-2	.50045	.084	.575	mg/L	98	70	130			
L71801-01LFMD	LFMD	03/16/22 19:35	II220314-2	.50045	.084	.58	mg/L	99	70	130	1	20	
L71801-02LFM	LFM	03/16/22 19:41	II220314-2	.50045	.112	.616	mg/L	101	70	130			
L71801-02LFMD	LFMD	03/16/22 19:44	II220314-2	.50045	.112	.621	mg/L	102	70	130	1	20	

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L71801

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L71801-01	WG539067	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG538879	Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG538406	Total Recoverable Digestion	M200.2 ICP-MS	DJ	Sample dilution required due to insufficient sample.
L71801-02	WG539067	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG538879	Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L71801**

No certification qualifiers associated with this analysis

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L71801

Date Received: 03/04/2022 09:20

Received By:

Date Printed: 3/7/2022

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2) Is the Chain of Custody form or other directive shipping papers present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3) Does this project require special handling procedures such as CLP protocol?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4) Are any samples NRC licensable material?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5) If samples are received past hold time, proceed with requested short hold time analyses?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6) Is the Chain of Custody form complete and accurate? The 'sampled by' field on the Chain of Custody was not completed.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9) Are all labels on containers and are they intact and legible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11) For preserved bottle types, was the pH checked and within limits? ¹	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12) Is there sufficient sample volume to perform all requested work?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13) Is the custody seal intact on all containers?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
14) Are samples that require zero headspace acceptable?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
15) Are all sample containers appropriate for analytical requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16) Is there an Hg-1631 trip blank present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
17) Is there a VOA trip blank present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
18) Were all samples received within hold time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

NA indicates Not Applicable

Chain of Custody Related Remarks

The 'Relinquished By' field on the COC was not completed. The project manager is contacting the client.

Client Contact Remarks

See Quote, No Rads

Shipping Containers

Cooler Id	Temp (°C)	Temp Criteria (°C)	Rad (µR/Hr)	Custody Seal Intact?
3455	2.2	<=6.0	15	Yes

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L71801

Date Received: 03/04/2022 09:20

Received By:

Date Printed: 3/7/2022

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

¹ The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na₂S₂O₃ preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).



Laboratories, Inc. L 71801

CHAIN of CUSTODY

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Report to:

Name: Kathy Weinel
Company: Energy Fuels
E-mail: kweinel@energyfuels.com

Address: 225 Union Blvd. Suite 600
Lakewood, CO 80928
Telephone: 303-389-4134

Copy of Report to:

Name:
Company:

E-mail:
Telephone:

Invoice to:

Name: Kathy Weinel
Company: Energy Fuels
E-mail: kweinel@energyfuels.com

Address: 225 Union Blvd, Suite 600
Lakewood, CO 80928
Telephone: 303-389-4134

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES [X] NO []

If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified

Are samples for SDWA Compliance Monitoring? Yes [] No [X]

If yes, please include state forms. Results will be reported to PQL for Colorado.

Sampler's Name: Matt Germanson Sampler's Site Information State AZ Zip code Time Zone

*Sampler's Signature: [Signature] I attest to the authenticity and validity of this sample. I understand that intentionally mislabeling the time/date/location or tampering with the sample in anyway, is considered fraud and punishable by State Law.

PROJECT INFORMATION

ANALYSES REQUESTED (attach list or use quote number)

Quote #: PP-Sump-INDAPP
PO#:
Reporting state for compliance testing:
Check box if samples include NRC licensed material?

Table with columns for # of Containers and a grid for analyses requested. Contains handwritten 'See Quote'.

Table with columns for SAMPLE IDENTIFICATION, DATE:TIME, and Matrix. Contains handwritten entries for Pre WTP and Post WTP.

Matrix SW (Surface Water) GW (Ground Water) WW (Waste Water) DW (Drinking Water) SL (Sludge) SO (Soil) OL (Oil) Other (Specify)

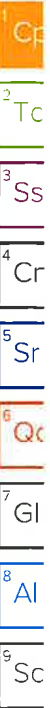
REMARKS

See Quote, No Raads

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

Table with columns for RELINQUISHED BY, DATE:TIME, RECEIVED BY, and DATE:TIME. Contains handwritten signature and date 3/19/22.





Energy Fuels Resources

Sample Delivery Group: L1469322
Samples Received: 03/09/2022
Project Number: PINYAN PLAIN GW
Description: Pinyon Plane RAD
Site: PINYAN PLAIN
Report To: Kathy Weinel
225 Union Blvd
Suite 600
Lakewood, CO 80228

Entire Report Reviewed By:



Donna Eidson
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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SAMPLE SUMMARY

SUMP-02282022 L1469322-01 Non-Potable Water

Collected by: Matt Germansen
 Collected date/time: 02/28/22 11:10
 Received date/time: 03/09/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 900	WG1832125	1	03/17/22 08:21	03/18/22 16:42	JMR	Mt. Juliet, TN
Radiochemistry by Method 903.0/9315	WG1831806	1	03/14/22 14:16	03/17/22 01:42	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG1831875	1	03/15/22 14:08	03/29/22 15:05	JMR	Mt. Juliet, TN
Radiochemistry by Method D3972 U-02	WG1830482	1	03/10/22 14:38	03/18/22 09:45	RGT	Mt. Juliet, TN

PREWTP-02282022 L1469322-02 Non-Potable Water

Collected by: Matt Germansen
 Collected date/time: 02/28/22 13:10
 Received date/time: 03/09/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 900	WG1832125	1	03/17/22 08:21	03/18/22 16:42	JMR	Mt. Juliet, TN
Radiochemistry by Method 903.0/9315	WG1831806	1	03/14/22 14:16	03/17/22 02:42	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG1831875	1	03/15/22 14:08	03/29/22 15:05	JMR	Mt. Juliet, TN
Radiochemistry by Method D3972 U-02	WG1830482	1	03/10/22 14:38	03/15/22 18:20	RGT	Mt. Juliet, TN

POSTWTP-02282022 L1469322-03 Non-Potable Water

Collected by: Matt Germansen
 Collected date/time: 02/28/22 13:55
 Received date/time: 03/09/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 900	WG1832125	1	03/17/22 08:21	03/18/22 16:42	JMR	Mt. Juliet, TN
Radiochemistry by Method 903.0/9315	WG1831806	1	03/14/22 14:16	03/17/22 02:42	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG1831875	1	03/15/22 14:08	03/29/22 15:05	JMR	Mt. Juliet, TN
Radiochemistry by Method D3972 U-02	WG1830482	1	03/10/22 14:38	03/15/22 18:20	RGT	Mt. Juliet, TN

MW01-03032022 L1469322-04 Non-Potable Water

Collected by: Matt Germansen
 Collected date/time: 03/03/22 11:37
 Received date/time: 03/09/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 900	WG1832125	1	03/17/22 08:21	03/21/22 11:44	JMR	Mt. Juliet, TN
Radiochemistry by Method 903.0/9315	WG1831806	1	03/14/22 14:16	03/17/22 02:42	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG1831875	1	03/15/22 14:08	03/29/22 15:05	JMR	Mt. Juliet, TN
Radiochemistry by Method D3972 U-02	WG1830482	1	03/10/22 14:38	03/15/22 18:20	RGT	Mt. Juliet, TN

MW01-03032022 DUP L1469322-05 Non-Potable Water

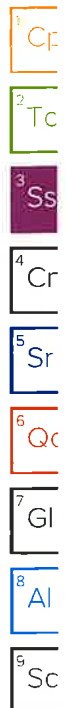
Collected by: Matt Germansen
 Collected date/time: 03/03/22 11:37
 Received date/time: 03/09/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 900	WG1832125	1	03/17/22 08:21	03/21/22 11:44	JMR	Mt. Juliet, TN
Radiochemistry by Method 903.0/9315	WG1831806	1	03/14/22 14:16	03/17/22 02:42	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG1831875	1	03/15/22 14:08	03/29/22 15:05	JMR	Mt. Juliet, TN
Radiochemistry by Method D3972 U-02	WG1830482	1	03/10/22 14:38	03/15/22 18:20	RGT	Mt. Juliet, TN

MW02-02282022 L1469322-06 Non-Potable Water

Collected by: Matt Germansen
 Collected date/time: 02/28/22 11:58
 Received date/time: 03/09/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 900	WG1832125	1	03/17/22 08:21	03/21/22 11:44	JMR	Mt. Juliet, TN
Radiochemistry by Method 903.0/9315	WG1831806	1	03/14/22 14:16	03/17/22 03:42	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG1831875	1	03/15/22 14:08	03/29/22 15:05	JMR	Mt. Juliet, TN
Radiochemistry by Method D3972 U-02	WG1830482	1	03/10/22 14:38	03/15/22 18:20	RGT	Mt. Juliet, TN



SAMPLE SUMMARY

MW03-03022022 L1469322-07 Non-Potable Water

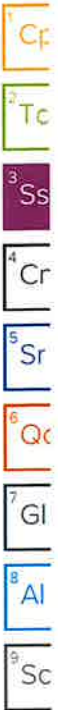
Collected by: Matt Germansen
 Collected date/time: 03/02/22 15:19
 Received date/time: 03/09/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 900	WG1835656	1	03/21/22 10:27	03/22/22 11:40	JMR	Mt. Juliet, TN
Radiochemistry by Method 903.0/9315	WG1831806	1	03/14/22 14:16	03/17/22 03:42	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG1831875	1	03/15/22 14:08	03/29/22 15:05	JMR	Mt. Juliet, TN
Radiochemistry by Method D3972 U-02	WG1830482	1	03/10/22 14:38	03/15/22 18:20	RGT	Mt. Juliet, TN

RW01-03012022 L1469322-08 Non-Potable Water

Collected by: Matt Germansen
 Collected date/time: 03/01/22 15:45
 Received date/time: 03/09/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 900	WG1835656	1	03/21/22 10:27	03/22/22 11:40	JMR	Mt. Juliet, TN
Radiochemistry by Method 903.0/9315	WG1831806	1	03/14/22 14:16	03/17/22 03:42	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG1831875	1	03/15/22 14:08	03/28/22 13:25	JMR	Mt. Juliet, TN
Radiochemistry by Method D3972 U-02	WG1830482	1	03/10/22 14:38	03/15/22 18:20	RGT	Mt. Juliet, TN



CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Donna Eidson
Project Manager



Radiochemistry by Method 900

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
GROSS ALPHA	32.1		3.97	1.75	03/21/2022 11:44	WG1832125

Radiochemistry by Method 903.0/9315

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Radium-226	2.26		0.627	0.252	03/17/2022 02:42	WG1831806
(T) Barium	99.8			30.0-143	03/17/2022 02:42	WG1831806

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.950		0.339	0.644	03/29/2022 15:05	WG1831875
(T) Barium	82.3			62.0-143	03/29/2022 15:05	WG1831875
(T) Yttrium	94.9			79.0-136	03/29/2022 15:05	WG1831875

Radiochemistry by Method D3972 U-02

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
URANIUM-234	10.0		0.953	0.367	03/15/2022 18:20	WG1830482
URANIUM-235	0.547		0.226	0.147	03/15/2022 18:20	WG1830482
URANIUM-238	4.14		0.619	0.293	03/15/2022 18:20	WG1830482
(T) URANIUM-232	82.2			30.0-110	03/15/2022 18:20	WG1830482



Radiochemistry by Method 900

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
GROSS ALPHA	33.4		3.92	1.58	03/21/2022 11:44	WG1832125

Radiochemistry by Method 903.0/9315

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Radium-226	1.29		0.504	0.363	03/17/2022 02:42	WG1831806
(T) Barium	110			30.0-143	03/17/2022 02:42	WG1831806

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.633		0.295	0.569	03/29/2022 15:05	WG1831875
(T) Barium	95.0			62.0-143	03/29/2022 15:05	WG1831875
(T) Yttrium	94.4			79.0-136	03/29/2022 15:05	WG1831875

Radiochemistry by Method D3972 U-02

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
URANIUM-234	10.7		0.936	0.366	03/15/2022 18:20	WG1830482
URANIUM-235	0.811		0.263	0.162	03/15/2022 18:20	WG1830482
URANIUM-238	4.60		0.620	0.288	03/15/2022 18:20	WG1830482
(T) URANIUM-232	79.7			30.0-110	03/15/2022 18:20	WG1830482



Radiochemistry by Method 900

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
GROSS ALPHA	13.7		2.18	1.20	03/21/2022 11:44	WG1832125

Radiochemistry by Method 903.0/9315

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Radium-226	1.85		0.571	0.300	03/17/2022 03:42	WG1831806
(T) Barium	110			30.0-143	03/17/2022 03:42	WG1831806

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	0.937		0.272	0.509	03/29/2022 15:05	WG1831875
(T) Barium	94.0			62.0-143	03/29/2022 15:05	WG1831875
(T) Yttrium	101			79.0-136	03/29/2022 15:05	WG1831875

Radiochemistry by Method D3972 U-02

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
URANIUM-234	4.08		0.624	0.341	03/15/2022 18:20	WG1830482
URANIUM-235	0.563		0.244	0.204	03/15/2022 18:20	WG1830482
URANIUM-238	2.14		0.451	0.261	03/15/2022 18:20	WG1830482
(T) URANIUM-232	76.0			30.0-110	03/15/2022 18:20	WG1830482



Radiochemistry by Method 900

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
GROSS ALPHA	8.69		2.82	2.26	03/22/2022 11:40	WG1835656

Radiochemistry by Method 903.0/9315

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Radium-226	1.04		0.434	0.236	03/17/2022 03:42	WG1831806
(T) Barium	109			30.0-143	03/17/2022 03:42	WG1831806

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	1.76		0.359	0.643	03/29/2022 15:05	WG1831875
(T) Barium	86.3			62.0-143	03/29/2022 15:05	WG1831875
(T) Yttrium	91.5			79.0-136	03/29/2022 15:05	WG1831875

Radiochemistry by Method D3972 U-02

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
URANIUM-234	2.65		0.434	0.121	03/15/2022 18:20	WG1830482
URANIUM-235	0.265		0.148	0.121	03/15/2022 18:20	WG1830482
URANIUM-238	1.54		0.336	0.148	03/15/2022 18:20	WG1830482
(T) URANIUM-232	82.8			30.0-110	03/15/2022 18:20	WG1830482



Radiochemistry by Method 900

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
GROSS ALPHA	12.8		1.53	0.541	03/22/2022 11:40	WG1835656

Radiochemistry by Method 903.0/9315

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Radium-226	1.46		0.506	0.234	03/17/2022 03:42	WG1831806
(T) Barium	109			30.0-143	03/17/2022 03:42	WG1831806

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	0.780		0.274	0.494	03/28/2022 13:25	WG1831875
(T) Barium	103			62.0-143	03/28/2022 13:25	WG1831875
(T) Yttrium	97.1			79.0-136	03/28/2022 13:25	WG1831875

Radiochemistry by Method D3972 U-02

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
URANIUM-234	8.33		0.782	0.264	03/15/2022 18:20	WG1830482
URANIUM-235	0.869		0.254	0.121	03/15/2022 18:20	WG1830482
URANIUM-238	5.04		0.604	0.187	03/15/2022 18:20	WG1830482
(T) URANIUM-232	83.2			30.0-110	03/15/2022 18:20	WG1830482



Method Blank (MB)

(MB) R377271-1 03/18/22 16:42

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty +/-	MB MDA pCi/l
GROSS ALPHA	0.0542	<u>U</u>	0.361	0.571

L1471168-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1471168-01 03/21/22 11:45 • (DUP) R377271-5 03/18/22 16:42

Analyte	Original Result pCi/l	Original Uncertainty +/-	DUP Result pCi/l	DUP Uncertainty +/-	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
GROSS ALPHA	1.95	0.878	0.911	0.872	0.911	1	20.4	0.292		20	3

Laboratory Control Sample (LCS)

(LCS) R377271-2 03/18/22 16:42

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
GROSS ALPHA	15.0	14.6	97.3	80.0-120	

L1467820-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1467820-01 03/18/22 16:42 • (MS) R377271-3 03/18/22 16:42 • (MSD) R377271-4 03/18/22 16:42

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
GROSS ALPHA	30.0	3.07	32.6	35.5	98.5	108	1	70.0-130			8.37		20

Method Blank (MB)

(MB) R3773046-1 03/22/22 11:39

Analyte	MB Result pCi/l	MB Uncertainty + / -	MB Qualifier	MB MDA pCi/l
GROSS ALPHA	-0.0943	0.312	<u>U</u>	0.552

L1470052-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1470052-02 03/22/22 11:40 • (DUP) R3773046-5 03/22/22 11:39

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
GROSS ALPHA	2.14	0.940	0.959	1.87	0.941	0.959	1	13.4	0.202		20	3

Laboratory Control Sample (LCS)

(LCS) R3773046-2 03/22/22 11:39

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
GROSS ALPHA	15.0	15.5	103	80.0-120	

L1470052-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1470052-01 03/22/22 11:40 • (MS) R3773046-3 03/22/22 11:39 • (MSD) R3773046-4 03/22/22 11:39

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
GROSS ALPHA	18.8	8.77	25.0	26.7	86.2	95.5	1	70.0-130			6.77		20

1 Cf

2 Tc

3 Ss

4 Cr

5 Sr

6 Qc

7 GI

8 Al

9 Sc

WG1831806

Radiochemistry by Method 903.0/9315

QUALITY CONTROL SUMMARY

L1469322-01,02,03,04,05,06,07,08

Method Blank (MB)

(MB) R3771273-1 03/17/22 00:41

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / -	MB MDA pCi/l
Radium-226 (f) Barium	-0.0235 92.9	<u>U</u>	0.103 92.9	0.239

L1470372-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1470372-01 03/17/22 03:42 • (DUP) R3771273-4 03/17/22 01:42

Analyte	Original Result pCi/l	Original Uncertainty + / -	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-226 (f) Barium	0.170 107	0.263	0.369	0.444 94.8	0.369	1	74.2	0.388	<u>J</u>	20	3

Laboratory Control Sample (LCS)

(LCS) R3771273-2 03/17/22 01:42

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226 (f) Barium	5.01	4.41	88.0 91.8	80.0-120	

L1469322-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1469322-01 03/17/22 01:42 • (MS) R3771273-3 03/17/22 01:42

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Radium-226 (f) Barium	20.0	14.6 93.4	35.6 94.3	105 94.3	1	75.0-125	

Method Blank (MB)

(MB) R3776700-1 03/29/22 15:05

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / -	MB MDA pCi/l
Radium-228	0.0957	U	0.227	0.450
(f) Barium	104		104	
(f) Yttrium	104		104	

L1469322-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1469322-01 03/29/22 15:05 • (DUP) R3776700-5 03/29/22 15:05

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	2.28	0.356	0.623	0.927	0.846	0.623	1	84.4	1.47	J	20	3
(f) Barium	94.5			104	104							
(f) Yttrium	104			98.2	98.2							

Laboratory Control Sample (LCS)

(LCS) R3776700-2 03/29/22 15:05

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	5.43	109	80.0-120	
(f) Barium			105		
(f) Yttrium			105		

L1468811-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1468811-01 03/29/22 15:05 • (MS) R3776700-3 03/29/22 15:05 • (MSD) R3776700-4 03/29/22 15:05

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	16.7	0.629	18.2	18.9	105	109	1	70.0-130			4.05		20
(f) Barium		99.1			104	111							
(f) Yttrium		92.6			99.9	96.8							

Method Blank (MB)

(MB) R3771401-1 03/15/22 18:20

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / -	MB MDA pCi/l
URANIUM-234	0.0871	J	0.109	0.150
URANIUM-235	-0.00471	U	0.0523	0.101
URANIUM-238	0.000	U	0.0604	0.111
(T) URANIUM-232	75.0		75.0	

L1469322-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1469322-08 03/15/22 18:20 • (DUP) R3771401-4 03/15/22 18:20

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
URANIUM-234	8.33	0.782	0.264	8.65	1.25	0.264	1	3.75	0.216		20	3
URANIUM-235	0.869	0.254	0.121	0.741	0.438	0.121	1	16.0	0.254		20	3
URANIUM-238	5.04	0.604	0.187	5.91	0.985	0.187	1	15.9	0.754		20	3
(T) URANIUM-232	83.2			70.9	70.9							

Laboratory Control Sample (LCS)

(LCS) R3771401-2 03/15/22 18:20

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
URANIUM-234	10.1	8.84	87.5	80.0-120	
URANIUM-238	9.80	9.10	92.8	80.0-120	
(T) URANIUM-232			80.6		

L1469322-07 Original Sample (OS) • Matrix Spike (MS)

(OS) L1469322-07 03/15/22 18:20 • (MS) R3771401-3 03/15/22 18:20

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
URANIUM-234	40.2	2.65	38.9	90.3	1	75.0-125	
URANIUM-238	39.2	1.54	40.7	99.8	1	75.0-125	
(T) URANIUM-232		82.8	80.2	80.2			

GLOSSARY OF TERMS

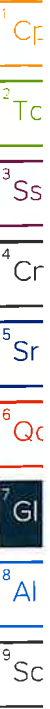
Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDA	Minimum Detectable Activity.
Rec.	Recovery.
RER	Replicate Error Ratio.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(T)	Tracer - A radioisotope of known concentration added to a solution of chemically equivalent radioisotopes at a known concentration to assist in monitoring the yield of the chemical separation.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.
Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Below Detectable Limits: Indicates that the analyte was not detected.



ACCREDITATIONS & LOCATIONS

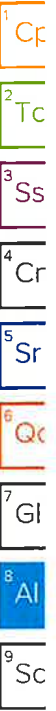
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

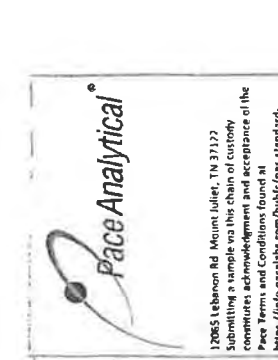
Alabama	40660	Nebraska	NE-05-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA -- ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.





Company Name/Address:
Energy Fuels Resources
 225 Union Blvd
 Suite 600
 Lakewood, CO 80228

Billing Information:
 Accounts Payable
 225 Union Blvd
 Suite 600
 Lakewood, CO 80228
 Email To: KWeinel@energyfuels.com

Report to:
Kathy Weinel

Project Description:
 Pinyon Plane RAD

City/State Collected: **Tusa, AZ**
 Please Circle: **PT MT CT ET**

Client Project #
Pinyon Plain GW

Site/Facility ID #
Pinyon Plain

Quote #
00102880

Date Results Needed
 Rush? (Lab MUST Be Notified)
 ___ Same Day ___ Five Day
 ___ Next Day ___ 5 Day (Rad Only)
 ___ Two Day ___ 10 Day (Rad Only)
 ___ Three Day

Sample ID
NO ICE

Immediately Packed on Ice **N X Y**



17851 Lebanon Rd, Mount Juliet, TN 37122
 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/public/pacs_standard_terms.pdf

SDG # **U409322**
A065

Table

Acctnum: **ENEFUELCO**
 Template: **T199351**
 Prelogin: **P894564**
 PM: **732 - Donna Eidson**
 PB: **12/16/22 VJ**

Shipped Via: **FedEX Ground**
 Remarks Sample # (lab only)

Pres Chk	Analysis / Container / Preservation	U-ISO 1L-HDPE-Add HNO3	RA-228 1L-HDPE-Add HNO3	GROSS ALPHA, RA-226 1L-HDPE-Add HNO3	No. of Cnts	Sample ID	Comp/Grab	Matrix *	Depth	Date	Time *
✓		X	X	X	3	Samp-02282022	NPW			2/28/22	1110
✓		X	X	X	3	PreWTP-02282022	NPW			2/28/22	1310
✓		X	X	X	3	Post WTP-02282022	NPW			2/28/22	1355
					3	MW01-03032022	NPW			03/3/22	1137
					3	MW01-03032022 Dup	NPW			3/3/22	1137
					3	MW02-02282022	NPW			2/28/22	1158
					3	MW03-03022022	NPW			3/2/22	15:19
					3	RW01-03012022	NPW			3/1/22	15:45

Remarks: No Ice Required

* Matrix: SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - Waste Water
 DW - Drinking Water
 OT - Other

Relinquished by: (Signature) *[Signature]* Date: **3/3/2022**
 Relinquished by: (Signature) *[Signature]* Date: **3/3/2022**
 Relinquished by: (Signature) *[Signature]* Date: **3/3/2022**

Samples returned via: UPS FedEx Courier

Tracking # _____
 Received by: (Signature) _____ Time: _____
 Received by: (Signature) _____ Time: _____
 Received by: (Signature) _____ Time: _____

Trip Blank Received: Yes / No _____
 HCL / MeqH _____
 TBR _____
 Bottles Received: **2**
 Temp: **8.0°C**
 Date: **3/9/22**

Sample Receipt Checklist
 COC Seal Present/Intact: **Y**
 COC Signed/Accurate: **Y**
 Bottles arrive intact: **Y**
 Correct bottles used: **Y**
 Sufficient volume sent: **Y**
 If Applicable
 VOA Zero Headspace: **Y**
 Preservation Correct/Checked: **Y**
 RAD Screen <0.5 mB/hr: **Y**

If preservation required by Login: Date/Time
 Hold: _____ Condition: **NCF / OK**

June 28, 2022

Report to:

Kathy Weinel

Energy Fuels Resources (USA) Inc.

225 Union Blvd. ,Suite 600

Lakewood, CO 80228

Bill to:

Accounts Payable

Energy Fuels Resources (USA) Inc.

225 Union Blvd. ,Suite 600

Lakewood, CO 80228

Project ID:

ACZ Project ID: L73532

Kathy Weinel:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on May 27, 2022. This project has been assigned to ACZ's project number, L73532. Please reference this number in all future inquiries.

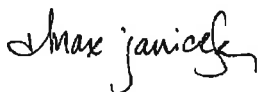
All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L73532. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after July 28, 2022. If the samples are determined to be hazardous, additional charges apply for disposal (typically \$11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.



Max Janicek has reviewed and approved this report.



Energy Fuels Resources (USA) Inc.

June 28, 2022

Project ID:

ACZ Project ID: L73532

Sample Receipt

ACZ Laboratories, Inc. (ACZ) received 5 groundwater samples from Energy Fuels Resources (USA) Inc. on May 27, 2022. The samples were received in good condition. Upon receipt, the sample custodian removed the samples from the cooler, inspected the contents, and logged the samples into ACZ's computerized Laboratory Information Management System (LIMS). The samples were assigned ACZ LIMS project number L73532. The custodian verified the sample information entered into the computer against the chain of custody (COC) forms and sample bottle labels.

Holding Times

Any analyses not performed within EPA recommended holding times have been qualified with an "H" flag.

Sample Analysis

These samples were analyzed for inorganic parameters. The individual methods are referenced on both the ACZ invoice and the analytical reports. The extended qualifier reports may contain footnotes qualifying specific elements due to QC failures. In addition, the following has been noted with this specific project:

The below is from WG544659

Qualifier: H1

Applies to:

L73532-01/SULFATE

L73532-02/SULFATE

L73532-03/SULFATE

L73532-04/SULFATE

L73532-05/SULFATE

Sample analysis performed past holding time. Due to instrument troubleshooting and maintenance, samples were analyzed as soon as possible.

Energy Fuels Resources (USA) Inc.
 Project ID:
 Sample ID: MW-01-05252022

ACZ Sample ID: **L73532-01**
 Date Sampled: 05/25/22 11:35
 Date Received: 05/27/22
 Sample Matrix: Groundwater

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, dissolved	M200.8 ICP-MS	1	0.00343			mg/L	0.0004	0.002	06/14/22 16:07	mfm
Arsenic, dissolved	M200.8 ICP-MS	1	0.0422			mg/L	0.0002	0.001	06/14/22 16:07	mfm
Barium, dissolved	M200.7 ICP	1	0.0261	B		mg/L	0.009	0.035	06/18/22 11:13	keh1
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	06/14/22 16:07	mfm
Cadmium, dissolved	M200.8 ICP-MS	1	<0.00005	U		mg/L	0.00005	0.00025	06/16/22 14:22	mfm
Calcium, dissolved	M200.7 ICP	1	115			mg/L	0.1	0.5	06/18/22 11:13	keh1
Chromium, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	06/18/22 11:13	keh1
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	06/14/22 16:07	mfm
Magnesium, dissolved	M200.7 ICP	1	56.3			mg/L	0.2	1	06/18/22 11:13	keh1
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	06/02/22 14:47	mlh
Nickel, dissolved	M200.7 ICP	1	0.0702			mg/L	0.008	0.04	06/18/22 11:13	keh1
Potassium, dissolved	M200.7 ICP	1	1.64			mg/L	0.2	1	06/18/22 11:13	keh1
Selenium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.00025	06/16/22 14:22	mfm
Sodium, dissolved	M200.7 ICP	1	3.09			mg/L	0.2	1	06/18/22 11:13	keh1
Thallium, dissolved	M200.8 ICP-MS	1	0.00119			mg/L	0.0001	0.0005	06/14/22 16:07	mfm
Uranium, dissolved	M200.8 ICP-MS	1	0.0108			mg/L	0.0001	0.0005	06/14/22 16:07	mfm

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	225			mg/L	2	20	06/01/22 0:00	jck
Carbonate as CaCO3		1	<2	U		mg/L	2	20	06/01/22 0:00	jck
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	06/01/22 0:00	jck
Total Alkalinity		1	225			mg/L	2	20	06/01/22 0:00	jck
Conductivity @25C	SM2510B	1	913			umhos/cm	1	10	06/01/22 4:48	jck
Fluoride	SM4500F-C	1	0.23	B		mg/L	0.15	0.35	06/13/22 16:03	emk
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	<0.02	U	*	mg/L	0.02	0.1	06/18/22 21:54	pjb
pH (lab)	SM4500H+ B									
pH		1	8.2	H		units	0.1	0.1	06/01/22 0:00	jck
pH measured at		1	21.8			C	0.1	0.1	06/01/22 0:00	jck
Residue, Filterable (TDS) @180C	SM2540C	1	634			mg/L	20	40	06/01/22 10:55	anc
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	25	270	H	*	mg/L	25	125	06/27/22 11:08	mjj1

Arizona license number: AZ0102

Energy Fuels Resources (USA) Inc.
 Project ID:
 Sample ID: MW-02-05262022

ACZ Sample ID: **L73532-02**
 Date Sampled: 05/25/22 10:41
 Date Received: 05/27/22
 Sample Matrix: Groundwater

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	06/14/22 16:09	mfm
Arsenic, dissolved	M200.8 ICP-MS	1	0.00328			mg/L	0.0002	0.001	06/14/22 16:09	mfm
Barium, dissolved	M200.7 ICP	1	0.0495			mg/L	0.009	0.035	06/18/22 11:16	keh1
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	06/14/22 16:09	mfm
Cadmium, dissolved	M200.8 ICP-MS	1	<0.00005	U		mg/L	0.00005	0.00025	06/16/22 14:23	mfm
Calcium, dissolved	M200.7 ICP	1	80.2			mg/L	0.1	0.5	06/18/22 11:16	keh1
Chromium, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	06/18/22 11:16	keh1
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	06/14/22 16:09	mfm
Magnesium, dissolved	M200.7 ICP	1	38.6			mg/L	0.2	1	06/18/22 11:16	keh1
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	06/02/22 14:48	mlh
Nickel, dissolved	M200.7 ICP	1	0.0168	B		mg/L	0.008	0.04	06/18/22 11:16	keh1
Potassium, dissolved	M200.7 ICP	1	2.33			mg/L	0.2	1	06/18/22 11:16	keh1
Selenium, dissolved	M200.8 ICP-MS	1	<0.0001	U	*	mg/L	0.0001	0.00025	06/14/22 16:09	mfm
Sodium, dissolved	M200.7 ICP	1	2.60			mg/L	0.2	1	06/18/22 11:16	keh1
Thallium, dissolved	M200.8 ICP-MS	1	0.00072			mg/L	0.0001	0.0005	06/14/22 16:09	mfm
Uranium, dissolved	M200.8 ICP-MS	1	0.00546			mg/L	0.0001	0.0005	06/14/22 16:09	mfm

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	217			mg/L	2	20	06/01/22 0:00	jck
Carbonate as CaCO3		1	9.5	B		mg/L	2	20	06/01/22 0:00	jck
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	06/01/22 0:00	jck
Total Alkalinity		1	226			mg/L	2	20	06/01/22 0:00	jck
Conductivity @25C	SM2510B	1	663			umhos/cm	1	10	06/01/22 4:57	jck
Fluoride	SM4500F-C	1	0.17	B		mg/L	0.15	0.35	06/13/22 16:10	emk
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	<0.02	U	*	mg/L	0.02	0.1	06/18/22 21:55	pjb
pH (lab)	SM4500H+ B									
pH		1	8.3	H		units	0.1	0.1	06/01/22 0:00	jck
pH measured at		1	21.1			C	0.1	0.1	06/01/22 0:00	jck
Residue, Filterable (TDS) @180C	SM2540C	1	410			mg/L	20	40	06/01/22 10:57	anc
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	5	124	H	*	mg/L	5	25	06/27/22 11:10	mjj1

Arizona license number: AZ0102

Energy Fuels Resources (USA) Inc.
 Project ID:
 Sample ID: MW-02-05262022 DUP

ACZ Sample ID: **L73532-03**
 Date Sampled: 05/25/22 10:41
 Date Received: 05/27/22
 Sample Matrix: Groundwater

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, dissolved	M200.8 ICP-MS	1	0.00041	B		mg/L	0.0004	0.002	06/14/22 16:16	mfm
Arsenic, dissolved	M200.8 ICP-MS	1	0.00321			mg/L	0.0002	0.001	06/14/22 16:16	mfm
Barium, dissolved	M200.7 ICP	1	0.0498			mg/L	0.009	0.035	06/18/22 11:19	keh1
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	06/14/22 16:16	mfm
Cadmium, dissolved	M200.8 ICP-MS	1	<0.00005	U		mg/L	0.00005	0.00025	06/16/22 14:25	mfm
Calcium, dissolved	M200.7 ICP	1	81.0			mg/L	0.1	0.5	06/18/22 11:19	keh1
Chromium, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	06/18/22 11:19	keh1
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	06/14/22 16:16	mfm
Magnesium, dissolved	M200.7 ICP	1	39.0			mg/L	0.2	1	06/18/22 11:19	keh1
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	06/08/22 13:03	mlh
Nickel, dissolved	M200.7 ICP	1	0.0165	B		mg/L	0.008	0.04	06/18/22 11:19	keh1
Potassium, dissolved	M200.7 ICP	1	2.34			mg/L	0.2	1	06/18/22 11:19	keh1
Selenium, dissolved	M200.8 ICP-MS	1	<0.0001	U	*	mg/L	0.0001	0.00025	06/14/22 16:16	mfm
Sodium, dissolved	M200.7 ICP	1	2.62			mg/L	0.2	1	06/18/22 11:19	keh1
Thallium, dissolved	M200.8 ICP-MS	1	0.00074			mg/L	0.0001	0.0005	06/14/22 16:16	mfm
Uranium, dissolved	M200.8 ICP-MS	1	0.00554			mg/L	0.0001	0.0005	06/14/22 16:16	mfm

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	217			mg/L	2	20	06/01/22 0:00	jck
Carbonate as CaCO3		1	10.1	B		mg/L	2	20	06/01/22 0:00	jck
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	06/01/22 0:00	jck
Total Alkalinity		1	227			mg/L	2	20	06/01/22 0:00	jck
Conductivity @25C	SM2510B	1	664			umhos/cm	1	10	06/01/22 5:06	jck
Fluoride	SM4500F-C	1	0.16	B		mg/L	0.15	0.35	06/13/22 16:15	emk
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	<0.02	U	*	mg/L	0.02	0.1	06/18/22 21:56	pjb
pH (lab)	SM4500H+ B									
pH		1	8.3	H		units	0.1	0.1	06/01/22 0:00	jck
pH measured at		1	21.6			C	0.1	0.1	06/01/22 0:00	jck
Residue, Filterable (TDS) @180C	SM2540C	1	404			mg/L	20	40	06/01/22 11:00	anc
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	5	124	H	*	mg/L	5	25	06/27/22 11:10	mjj1

Arizona license number: AZ0102

Energy Fuels Resources (USA) Inc.
 Project ID:
 Sample ID: MW-03-05242022

ACZ Sample ID: **L73532-04**
 Date Sampled: 05/25/22 15:01
 Date Received: 05/27/22
 Sample Matrix: Groundwater

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	06/14/22 16:19	mfm
Arsenic, dissolved	M200.8 ICP-MS	1	0.0182			mg/L	0.0002	0.001	06/14/22 16:19	mfm
Barium, dissolved	M200.7 ICP	1	0.0094	B		mg/L	0.009	0.035	06/18/22 11:29	keh1
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	06/14/22 16:19	mfm
Cadmium, dissolved	M200.8 ICP-MS	1	<0.00005	U		mg/L	0.00005	0.00025	06/16/22 14:31	mfm
Calcium, dissolved	M200.7 ICP	1	191			mg/L	0.1	0.5	06/18/22 11:29	keh1
Chromium, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	06/18/22 11:29	keh1
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	06/14/22 16:19	mfm
Magnesium, dissolved	M200.7 ICP	1	89.7			mg/L	0.2	1	06/18/22 11:29	keh1
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	06/08/22 13:04	mlh
Nickel, dissolved	M200.7 ICP	1	0.169			mg/L	0.008	0.04	06/18/22 11:29	keh1
Potassium, dissolved	M200.7 ICP	1	2.23			mg/L	0.2	1	06/18/22 11:29	keh1
Selenium, dissolved	M200.8 ICP-MS	1	<0.0001	U	*	mg/L	0.0001	0.00025	06/14/22 16:19	mfm
Sodium, dissolved	M200.7 ICP	1	3.75			mg/L	0.2	1	06/18/22 11:29	keh1
Thallium, dissolved	M200.8 ICP-MS	1	0.00026	B		mg/L	0.0001	0.0005	06/14/22 16:19	mfm
Uranium, dissolved	M200.8 ICP-MS	1	0.00490			mg/L	0.0001	0.0005	06/14/22 16:19	mfm

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	165			mg/L	2	20	06/01/22 0:00	jck
Carbonate as CaCO3		1	<2	U		mg/L	2	20	06/01/22 0:00	jck
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	06/01/22 0:00	jck
Total Alkalinity		1	165		*	mg/L	2	20	06/01/22 0:00	jck
Conductivity @25C	SM2510B	1	1400		*	umhos/cm	1	10	06/01/22 5:15	jck
Fluoride	SM4500F-C	5	<0.75	U	*	mg/L	0.75	1.75	06/14/22 20:00	eep
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	<0.02	U	*	mg/L	0.02	0.1	06/18/22 21:58	pjb
pH (lab)	SM4500H+ B									
pH		1	8.0	H	*	units	0.1	0.1	06/01/22 0:00	jck
pH measured at		1	21.2			C	0.1	0.1	06/01/22 0:00	jck
Residue, Filterable (TDS) @180C	SM2540C	1	1100			mg/L	20	40	06/01/22 11:02	anc
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	25	694	H	*	mg/L	25	125	06/27/22 11:10	mjj1

Arizona license number: AZ0102

Energy Fuels Resources (USA) Inc.

Project ID:

Sample ID: RW-01-05252022

ACZ Sample ID: **L73532-05**

Date Sampled: 05/25/22 15:39

Date Received: 05/27/22

Sample Matrix: Groundwater

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	06/14/22 16:21	mfm
Arsenic, dissolved	M200.8 ICP-MS	1	0.00032	B		mg/L	0.0002	0.001	06/14/22 16:21	mfm
Barium, dissolved	M200.7 ICP	1	0.0855			mg/L	0.009	0.035	06/18/22 11:32	keh1
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	06/14/22 16:21	mfm
Cadmium, dissolved	M200.8 ICP-MS	1	<0.00005	U		mg/L	0.00005	0.00025	06/16/22 14:33	mfm
Calcium, dissolved	M200.7 ICP	1	43.2			mg/L	0.1	0.5	06/18/22 11:32	keh1
Chromium, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	06/18/22 11:32	keh1
Lead, dissolved	M200.8 ICP-MS	1	0.00021	B		mg/L	0.0001	0.0005	06/14/22 16:21	mfm
Magnesium, dissolved	M200.7 ICP	1	29.5			mg/L	0.2	1	06/18/22 11:32	keh1
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	06/08/22 13:05	mlh
Nickel, dissolved	M200.7 ICP	1	0.0100	B		mg/L	0.008	0.04	06/18/22 11:32	keh1
Potassium, dissolved	M200.7 ICP	1	2.32			mg/L	0.2	1	06/18/22 11:32	keh1
Selenium, dissolved	M200.8 ICP-MS	1	0.00514		*	mg/L	0.0001	0.00025	06/14/22 16:21	mfm
Sodium, dissolved	M200.7 ICP	1	6.12			mg/L	0.2	1	06/18/22 11:32	keh1
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	06/14/22 16:21	mfm
Uranium, dissolved	M200.8 ICP-MS	1	0.0141			mg/L	0.0001	0.0005	06/14/22 16:21	mfm

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	199			mg/L	2	20	06/01/22 0:00	jck
Carbonate as CaCO3		1	11.7	B		mg/L	2	20	06/01/22 0:00	jck
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	06/01/22 0:00	jck
Total Alkalinity		1	210			mg/L	2	20	06/01/22 0:00	jck
Conductivity @25C	SM2510B	1	447			umhos/cm	1	10	06/01/22 5:25	jck
Fluoride	SM4500F-C	1	0.34	B		mg/L	0.15	0.35	06/14/22 20:07	eep
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	0.103		*	mg/L	0.02	0.1	06/18/22 21:59	pjb
pH (lab)	SM4500H+ B									
pH		1	8.4	H		units	0.1	0.1	06/01/22 0:00	jck
pH measured at		1	21.8			C	0.1	0.1	06/01/22 0:00	jck
Residue, Filterable (TDS) @180C	SM2540C	1	244			mg/L	20	40	06/01/22 11:05	anc
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	1	21.2	H	*	mg/L	1	5	06/27/22 15:51	mjj1

Arizona license number: **AZ0102**

EFRC

ACZ Project ID: **L73532**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Alkalinity as CaCO3

SM2320B - Titration

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG543272													
WG543272PBW1	PBW	05/31/22 18:40				6.4	mg/L		-20	20			
WG543272LCSW3	LCSW	05/31/22 18:56	WC220513-7	820.0001		777	mg/L	95	90	110			
WG543272LCSW6	LCSW	05/31/22 22:14	WC220513-7	820.0001		780.6	mg/L	95	90	110			
WG543272PBW2	PBW	05/31/22 22:20				6.5	mg/L		-20	20			
WG543272LCSW9	LCSW	06/01/22 1:14	WC220513-7	820.0001		801.9	mg/L	98	90	110			
WG543272PBW3	PBW	06/01/22 1:19				5.4	mg/L		-20	20			
WG543272LCSW12	LCSW	06/01/22 4:29	WC220513-7	820.0001		801.7	mg/L	98	90	110			
WG543272PBW4	PBW	06/01/22 4:35				4.9	mg/L		-20	20			
L73532-02DUP	DUP	06/01/22 6:09			66.6	64.4	mg/L				3	20	
WG543272LCSW15	LCSW	06/01/22 7:46	WC220513-7	820.0001		806.6	mg/L	98	90	110			

Antimony, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG544330													
WG544330ICV	ICV	06/14/22 16:00	MS220502-1	.0201		.01984	mg/L	99	90	110			
WG544330ICB	ICB	06/14/22 16:02				U	mg/L		-0.00088	0.00088			
WG544330LFB	LFB	06/14/22 16:05	MS220601-10	.01		.00932	mg/L	93	85	115			
L73532-02AS	AS	06/14/22 16:12	MS220601-10	.01	U	.00914	mg/L	91	70	130			
L73532-02ASD	ASD	06/14/22 16:14	MS220601-10	.01	U	.00916	mg/L	92	70	130	0	20	

Arsenic, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG544330													
WG544330ICV	ICV	06/14/22 16:00	MS220502-1	.05		.05246	mg/L	105	90	110			
WG544330ICB	ICB	06/14/22 16:02				U	mg/L		-0.00044	0.00044			
WG544330LFB	LFB	06/14/22 16:05	MS220601-10	.05005		.05046	mg/L	101	85	115			
L73532-02AS	AS	06/14/22 16:12	MS220601-10	.05005	.00328	.05544	mg/L	104	70	130			
L73532-02ASD	ASD	06/14/22 16:14	MS220601-10	.05005	.00328	.05472	mg/L	103	70	130	1	20	

Barium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG544643													
WG544643ICV	ICV	06/18/22 10:34	11220609-1	2		2.0085	mg/L	100	95	105			
WG544643ICB	ICB	06/18/22 10:40				U	mg/L		-0.027	0.027			
WG544643LFB	LFB	06/18/22 10:52	11220602-7	.5		.5174	mg/L	103	85	115			
L73522-03AS	AS	06/18/22 11:01	11220602-7	.5	.0577	.5833	mg/L	105	85	115			
L73522-03ASD	ASD	06/18/22 11:04	11220602-7	.5	.0577	.5911	mg/L	107	85	115	1	20	

Beryllium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG544330													
WG544330ICV	ICV	06/14/22 16:00	MS220502-1	.05		.055169	mg/L	110	90	110			
WG544330ICB	ICB	06/14/22 16:02				U	mg/L		-0.000176	0.000176			
WG544330LFB	LFB	06/14/22 16:05	MS220601-10	.05005		.051383	mg/L	103	85	115			
L73532-02AS	AS	06/14/22 16:12	MS220601-10	.05005	U	.052409	mg/L	105	70	130			
L73532-02ASD	ASD	06/14/22 16:14	MS220601-10	.05005	U	.0522	mg/L	104	70	130	0	20	

EFRC

ACZ Project ID: **L73532**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Cadmium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG544532													
WG544532ICV	ICV	06/16/22 14:13	MS220502-1	.05		.053149	mg/L	106	90	110			
WG544532ICB	ICB	06/16/22 14:15				U	mg/L		-0.00011	0.00011			
WG544532LFB	LFB	06/16/22 14:20	MS220601-10	.05005		.052032	mg/L	104	85	115			
L73532-03AS	AS	06/16/22 14:27	MS220601-10	.05005	U	.052712	mg/L	105	70	130			
L73532-03ASD	ASD	06/16/22 14:29	MS220601-10	.05005	U	.053322	mg/L	107	70	130	1	20	

Calcium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG544643													
WG544643ICV	ICV	06/18/22 10:34	II220609-1	100		99.84	mg/L	100	95	105			
WG544643ICB	ICB	06/18/22 10:40				.1	mg/L		-0.3	0.3			
WG544643LFB	LFB	06/18/22 10:52	II220602-7	67.9908		70.1	mg/L	103	85	115			
L73522-03AS	AS	06/18/22 11:01	II220602-7	67.9908	37.4	107.5	mg/L	103	85	115			
L73522-03ASD	ASD	06/18/22 11:04	II220602-7	67.9908	37.4	107.1	mg/L	103	85	115	0	20	

Chromium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG544643													
WG544643ICV	ICV	06/18/22 10:34	II220609-1	2		2.005	mg/L	100	95	105			
WG544643ICB	ICB	06/18/22 10:40				U	mg/L		-0.06	0.06			
WG544643LFB	LFB	06/18/22 10:52	II220602-7	.501		.527	mg/L	105	85	115			
L73522-03AS	AS	06/18/22 11:01	II220602-7	.501	U	.532	mg/L	106	85	115			
L73522-03ASD	ASD	06/18/22 11:04	II220602-7	.501	U	.539	mg/L	108	85	115	1	20	

Conductivity @25C SM2510B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG543272													
WG543272LCSW2	LCSW	05/31/22 18:46	PCN65454	1409		1458	umhos/cm	103	90	110			
WG543272LCSW5	LCSW	05/31/22 22:03	PCN65454	1409		1448	umhos/cm	103	90	110			
WG543272LCSW8	LCSW	06/01/22 1:01	PCN65454	1409		1448	umhos/cm	103	90	110			
WG543272LCSW11	LCSW	06/01/22 4:16	PCN65454	1409		1439	umhos/cm	102	90	110			
L73534-02DUP	DUP	06/01/22 6:09			958	955	umhos/cm				0	20	
WG543272LCSW14	LCSW	06/01/22 7:35	PCN65454	1409		1431	umhos/cm	102	90	110			

EFRC

ACZ Project ID: **L73532**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Fluoride SM4500F-C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG544184													
WG544184ICV	ICV	06/13/22 10:30	WC220608-1	2.008		2.08	mg/L	104	90	110			
WG544184ICB	ICB	06/13/22 10:36				U	mg/L		-0.3	0.3			
WG544201													
WG544201ICV	ICV	06/13/22 14:10	WC220608-1	2.008		2.1	mg/L	105	90	110			
WG544201ICB	ICB	06/13/22 14:17				U	mg/L		-0.3	0.3			
WG544201LFB1	LFB	06/13/22 14:26	WC220606-1	5.02		5	mg/L	100	90	110			
L73522-04AS	AS	06/13/22 15:53	WC220606-1	5.02	.24	4.98	mg/L	94	90	110			
L73522-04ASD	ASD	06/13/22 15:57	WC220606-1	5.02	.24	4.93	mg/L	93	90	110	1	20	
WG544201LFB2	LFB	06/13/22 17:01	WC220606-1	5.02		4.8	mg/L	96	90	110			
WG544304													
WG544304ICV	ICV	06/14/22 12:37	WC220608-1	2.008		2.06	mg/L	103	90	110			
WG544304ICB	ICB	06/14/22 12:44				U	mg/L		-0.3	0.3			
WG544332													
WG544332ICV	ICV	06/14/22 18:24	WC220608-1	2.008		1.95	mg/L	97	90	110			
WG544332ICB	ICB	06/14/22 18:30				U	mg/L		-0.3	0.3			
WG544332LFB	LFB	06/14/22 18:40	WC220606-1	5.02		5.15	mg/L	103	90	110			
L63925-72AS	AS	06/14/22 18:51	WC220606-1	5.02	.56	5.4	mg/L	96	90	110			
L63925-72ASD	ASD	06/14/22 18:56	WC220606-1	5.02	.56	5.45	mg/L	97	90	110	1	20	

Lead, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG544330													
WG544330ICV	ICV	06/14/22 16:00	MS220502-1	.05		.05377	mg/L	108	90	110			
WG544330ICB	ICB	06/14/22 16:02				U	mg/L		-0.00022	0.00022			
WG544330LFB	LFB	06/14/22 16:05	MS220601-10	.0501		.04932	mg/L	98	85	115			
L73532-02AS	AS	06/14/22 16:12	MS220601-10	.0501	U	.05087	mg/L	102	70	130			
L73532-02ASD	ASD	06/14/22 16:14	MS220601-10	.0501	U	.04893	mg/L	98	70	130	4	20	

Magnesium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG544643													
WG544643ICV	ICV	06/18/22 10:34	II220609-1	100		95.95	mg/L	96	95	105			
WG544643ICB	ICB	06/18/22 10:40				U	mg/L		-0.6	0.6			
WG544643LFB	LFB	06/18/22 10:52	II220602-7	49.99922		49.21	mg/L	98	85	115			
L73522-03AS	AS	06/18/22 11:01	II220602-7	49.99922	10.8	60.85	mg/L	100	85	115			
L73522-03ASD	ASD	06/18/22 11:04	II220602-7	49.99922	10.8	60.44	mg/L	99	85	115	1	20	

EFRC

ACZ Project ID: **L73532**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Mercury, dissolved M245.1 CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG543398													
WG543398ICV	ICV	06/02/22 12:42	HG220523-3	.005005		.00516	mg/L	103	90	110			
WG543398ICB	ICB	06/02/22 12:43				U	mg/L		-0.0006	0.0006			
WG543426													
WG543426LRB	LRB	06/02/22 14:33				U	mg/L		-0.00044	0.00044			
WG543426LFB	LFB	06/02/22 14:34	HG220523-6	.002002		.0018	mg/L	90	85	115			
L73522-03LFM	LFM	06/02/22 14:43	HG220523-6	.002002	U	.00186	mg/L	93	85	115			
L73522-03LFMD	LFMD	06/02/22 14:44	HG220523-6	.002002	U	.00194	mg/L	97	85	115	4	20	
L73550-01LFM	LFM	06/02/22 14:56	HG220523-6	.002002	U	.0019	mg/L	95	85	115			
L73550-01LFMD	LFMD	06/02/22 14:57	HG220523-6	.002002	U	.0019	mg/L	95	85	115	0	20	
WG543753													
WG543753ICV	ICV	06/08/22 12:07	HG220606-3	.005005		.0051	mg/L	102	90	110			
WG543753ICB	ICB	06/08/22 12:08				U	mg/L		-0.0006	0.0006			
WG543754													
WG543754LRB	LRB	06/08/22 13:01				U	mg/L		-0.00044	0.00044			
WG543754LFB	LFB	06/08/22 13:02	HG220606-6	.002002		.00192	mg/L	96	85	115			
L73532-05LFM	LFM	06/08/22 13:06	HG220606-6	.002002	U	.00199	mg/L	99	85	115			
L73532-05LFMD	LFMD	06/08/22 13:07	HG220606-6	.002002	U	.00185	mg/L	92	85	115	7	20	

Nickel, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG544643													
WG544643ICV	ICV	06/18/22 10:34	II220609-1	2		1.9388	mg/L	97	95	105			
WG544643ICB	ICB	06/18/22 10:40				U	mg/L		-0.024	0.024			
WG544643LFB	LFB	06/18/22 10:52	II220602-7	.5005		.518	mg/L	103	85	115			
L73522-03AS	AS	06/18/22 11:01	II220602-7	.5005	U	.5211	mg/L	104	85	115			
L73522-03ASD	ASD	06/18/22 11:04	II220602-7	.5005	U	.5303	mg/L	106	85	115	2	20	

Nitrate/Nitrite as N M353.2 - H2SO4 preserved

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG544669													
WG544669ICV	ICV	06/18/22 21:34	WI220602-3	2.4161		2.348	mg/L	97	90	110			
WG544669ICB	ICB	06/18/22 21:36				U	mg/L		-0.02	0.02			
WG544669LFB	LFB	06/18/22 21:39	WI220401-10	2		1.946	mg/L	97	90	110			
L58827-109AS	AS	06/18/22 21:42	WI220401-10	2	U	2.005	mg/L	100	90	110			
L58827-110DUP	DUP	06/18/22 21:45			U	U	mg/L				0	20	RA

pH (lab) SM4500H+ B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG543272													
WG543272LCSW1	LCSW	05/31/22 18:44	PCN64057	6		6.1	units	102	5.9	6.1			
WG543272LCSW4	LCSW	05/31/22 22:01	PCN64057	6		6.1	units	102	5.9	6.1			
WG543272LCSW7	LCSW	06/01/22 1:00	PCN64057	6		6.1	units	102	5.9	6.1			
WG543272LCSW10	LCSW	06/01/22 4:14	PCN64057	6		6.1	units	102	5.9	6.1			
L73534-02DUP	DUP	06/01/22 6:09			7.4	7.4	units				0	20	
WG543272LCSW13	LCSW	06/01/22 7:33	PCN64057	6		6.1	units	102	5.9	6.1			

EFRC

ACZ Project ID: **L73532**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Potassium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG544643													
WG544643ICV	ICV	06/18/22 10:34	II220609-1	20		19.79	mg/L	99	95	105			
WG544643ICB	ICB	06/18/22 10:40				U	mg/L		-0.6	0.6			
WG544643LFB	LFB	06/18/22 10:52	II220602-7	99.96218		100.9	mg/L	101	85	115			
L73522-03AS	AS	06/18/22 11:01	II220602-7	99.96218	1.75	106.2	mg/L	104	85	115			
L73522-03ASD	ASD	06/18/22 11:04	II220602-7	99.96218	1.75	105.8	mg/L	104	85	115	0	20	

Residue, Filterable (TDS) @180C

SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG543306													
WG543306PBW	PBW	06/01/22 10:08				U	mg/L		-20	20			
WG543306LCSW	LCSW	06/01/22 10:10	PCN63843	1000		984	mg/L	98	80	120			
L73532-05DUP	DUP	06/01/22 11:08			244	246	mg/L				1	10	

Selenium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG544330													
WG544330ICV	ICV	06/14/22 16:00	MS220502-1	.05		.05304	mg/L	106	90	110			
WG544330ICB	ICB	06/14/22 16:02				.00012	mg/L		-0.00022	0.00022			
WG544330LFB	LFB	06/14/22 16:05	MS220601-10	.05		.04886	mg/L	98	85	115			
L73532-02AS	AS	06/14/22 16:12	MS220601-10	.05	U	.05433	mg/L	109	70	130			
L73532-02ASD	ASD	06/14/22 16:14	MS220601-10	.05	U	.0537	mg/L	107	70	130	1	20	
WG544532													
WG544532ICV	ICV	06/16/22 14:13	MS220502-1	.05		.05351	mg/L	107	90	110			
WG544532ICB	ICB	06/16/22 14:15				.00011	mg/L		-0.00022	0.00022			
WG544532LFB	LFB	06/16/22 14:20	MS220601-10	.05		.05185	mg/L	104	85	115			
L73532-03AS	AS	06/16/22 14:27	MS220601-10	.05	U	.0562	mg/L	112	70	130			
L73532-03ASD	ASD	06/16/22 14:29	MS220601-10	.05	U	.05655	mg/L	113	70	130	1	20	

Sodium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG544643													
WG544643ICV	ICV	06/18/22 10:34	II220609-1	100		99.24	mg/L	99	95	105			
WG544643ICB	ICB	06/18/22 10:40				U	mg/L		-0.6	0.6			
WG544643LFB	LFB	06/18/22 10:52	II220602-7	100.0282		100.3	mg/L	100	85	115			
L73522-03AS	AS	06/18/22 11:01	II220602-7	100.0282	17.1	119.6	mg/L	102	85	115			
L73522-03ASD	ASD	06/18/22 11:04	II220602-7	100.0282	17.1	119.5	mg/L	102	85	115	0	20	

Sulfate

D516-02/-07-11 - TURBIDIMETRIC

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG544659													
WG544659ICB	ICB	06/27/22 8:41				U	mg/L		-3	3			
WG544659ICV	ICV	06/27/22 8:41	WI220618-1	19.54		19.7	mg/L	101	90	110			
WG544659LFB1	LFB	06/27/22 10:19	WI220415-3	9.95		10.1	mg/L	102	90	110			
L73522-04DUP	DUP	06/27/22 11:08			284	280.5	mg/L				1	20	
L73532-01AS	AS	06/27/22 11:08	SO4TURB25X	10	270	284.3	mg/L	143	90	110			M3
WG544659LFB2	LFB	06/27/22 15:51	WI220415-3	9.95		10.8	mg/L	109	90	110			

EFRC

ACZ Project ID: **L73532**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Thallium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG544330													
WG544330ICV	ICV	06/14/22 16:00	MS220502-1	.05		.05521	mg/L	110	90	110			
WG544330ICB	ICB	06/14/22 16:02				U	mg/L		-0.00022	0.00022			
WG544330LFB	LFB	06/14/22 16:05	MS220601-10	.05		.04976	mg/L	100	85	115			
L73532-02AS	AS	06/14/22 16:12	MS220601-10	.05	.00072	.05061	mg/L	100	70	130			
L73532-02ASD	ASD	06/14/22 16:14	MS220601-10	.05	.00072	.05111	mg/L	101	70	130	1	20	

Uranium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG544330													
WG544330ICV	ICV	06/14/22 16:00	MS220502-1	.05		.05409	mg/L	108	90	110			
WG544330ICB	ICB	06/14/22 16:02				U	mg/L		-0.00022	0.00022			
WG544330LFB	LFB	06/14/22 16:05	MS220601-10	.05		.04914	mg/L	98	85	115			
L73532-02AS	AS	06/14/22 16:12	MS220601-10	.05	.00546	.05689	mg/L	103	70	130			
L73532-02ASD	ASD	06/14/22 16:14	MS220601-10	.05	.00546	.05689	mg/L	103	70	130	0	20	

Energy Fuels Resources (USA) Inc.

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L73532-01	WG544669	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG544659	Sulfate	D516-02/07/11 - TURBIDIMETRIC D516-02/07/11 - TURBIDIMETRIC	H1	Sample prep or analysis performed past holding time. See case narrative.
				M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
L73532-02	WG544669	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG544330	Selenium, dissolved	M200.8 ICP-MS	BE	Target analyte in continuing calibration blank (CCB) at or above the acceptance criteria. Target analyte was not detected in the sample [< MDL].
	WG544659	Sulfate	D516-02/07/11 - TURBIDIMETRIC D516-02/07/11 - TURBIDIMETRIC	H1	Sample prep or analysis performed past holding time. See case narrative.
L73532-03	WG544669	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG544330	Selenium, dissolved	M200.8 ICP-MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG544659	Sulfate	D516-02/07/11 - TURBIDIMETRIC D516-02/07/11 - TURBIDIMETRIC	BE	Target analyte in continuing calibration blank (CCB) at or above the acceptance criteria. Target analyte was not detected in the sample [< MDL].
L73532-04	WG543272	Conductivity @25C	SM2510B	H1	Sample prep or analysis performed past holding time. See case narrative.
	WG544332	Fluoride	SM4500F-C	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG544669	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	ZW	Method deviation. The sample was centrifuged prior to analysis due to high solid content.
	WG543272	pH	SM4500H+ B	DD	Sample required dilution due to matrix color or odor.
	WG544330	Selenium, dissolved	M200.8 ICP-MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG544659	Sulfate	D516-02/07/11 - TURBIDIMETRIC D516-02/07/11 - TURBIDIMETRIC	ZW	Method deviation. The sample was centrifuged prior to analysis due to high solid content.
	WG543272	Total Alkalinity	SM2320B - Titration	BE	Target analyte in continuing calibration blank (CCB) at or above the acceptance criteria. Target analyte was not detected in the sample [< MDL].

ACZ Project ID: **L73532**

Energy Fuels Resources (USA) Inc.

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L73532-05	WG544669	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG544330	Selenium, dissolved	M200.8 ICP-MS	BB	Target analyte detected in calibration blank at or above acceptance limit. Sample value was > 10X the concentration in the calibration blank.
	WG544659	Sulfate	D516-02/-07/-11 - TURBIDIMETRIC D516-02/-07/-11 - TURBIDIMETRIC	H1	Sample prep or analysis performed past holding time. See case narrative.
				M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.

Energy Fuels Resources (USA) Inc.

ACZ Project ID: **L73532**

No certification qualifiers associated with this analysis

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L73532

Date Received: 05/27/2022 12:02

Received By:

Date Printed: 5/31/2022

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody form or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?		X	
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody form complete and accurate?	X		
7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples?	X		
A change was made in the Report to: Name and Sample ID: Line 3 section prior to ACZ custody.			
A change was made in the Report to: Name and Sample ID: Line 3 section prior to ACZ custody.			
A change was made in the Report to: Name and Sample ID: Line 3 section prior to ACZ custody.			
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A change was made in the Report to: Name and Sample ID: Line 3 section prior to ACZ custody.			

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits? ¹	X		
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?	X		

NA indicates Not Applicable

Chain of Custody Related Remarks

Energy Fuels Resources (USA) Inc.

ACZ Project ID: L73532
 Date Received: 05/27/2022 12:02
 Received By:
 Date Printed: 5/31/2022

Client Contact Remarks

Shipping Containers

Cooler Id	Temp (°C)	Temp Criteria (°C)	Rad (µR/Hr)	Custody Seal Intact?
5188	1.1	<=6.0	15	Yes

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

¹ The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na2S2O3 preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).



Laboratories, Inc.

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

L73532

CHAIN of CUSTODY

Report to:

Name: Kathy Weinel
Company: Energy Fuels
E-mail: kweinel@energyfuels.com

Address: 225 Union Blvd. Suite 600
Lakewood, CO 80928
Telephone: 303-389-4134

Copy of Report to:

Name:
Company:

E-mail:
Telephone:

Invoice to:

Name: Kathy Weinel
Company: Energy Fuels
E-mail: kweinel@energyfuels.com

Address: 225 Union Blvd, Suite 600
Lakewood, CO 80928
Telephone: 303-389-4134

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES [X] NO []

If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified

Are samples for SDWA Compliance Monitoring? Yes [] No [X]

If yes, please include state forms. Results will be reported to PQL for Colorado.

Sampler's Name: Matt Germansen Sampler's Site Information State AZ Zip code Time Zone

*Sampler's Signature: [Signature] I attest to the authenticity and validity of this sample. I understand that intentionally mislabeling the time/date/location or tampering with the sample in anyway, is considered fraud and punishable by State Law.

PROJECT INFORMATION

ANALYSES REQUESTED (attach list or use quote number)

Table with columns: Quote #, PO#, Reporting state, Check box, SAMPLE IDENTIFICATION, DATE:TIME, Matrix, # of Containers, and analysis results. Includes handwritten entries for MW 01-05252022, MW 02-05262022, MW 02 Dup-05262022, MW 03-05242022, and RW 01-05252022.

Matrix SW (Surface Water) - GW (Ground Water) - WW (Waste Water) - DW (Drinking Water) - SL (Sludge) - SO (Soil) - OL (Oil) - Other (Specify)

REMARKS

See Quote, No Rads, Normal TAT

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

Table with columns: RELINQUISHED BY, DATE:TIME, RECEIVED BY, DATE:TIME. Includes handwritten signatures and dates.

L73532 Chain of Custody



ANALYTICAL REPORT

July 29, 2022

Revised Report



Energy Fuels Resources

Sample Delivery Group: L1500464
 Samples Received: 06/02/2022
 Project Number: PINYON PLAIN GW
 Description: Pinyon Plane RAD
 Site: PINYON PLAIN
 Report To: Kathy Weinel
 3549 South Cheryl Drive
 Flagstaff, AZ 86005

Entire Report Reviewed By:

Donna Eidson
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

ACCOUNT:

PROJECT:

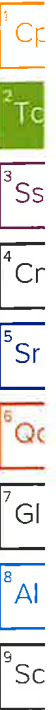
SDG:

DATE/TIME:

PAGE:

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SAMPLE SUMMARY

SUMP-05242022 L1500464-01 Non-Potable Water

Collected by: Matt Germansen
 Collected date/time: 05/24/22 13:15
 Received date/time: 06/02/22 10:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 900	WG1877491	1	06/10/22 11:02	06/30/22 17:31	SWM	Mt. Juliet, TN
Radiochemistry by Method 903.0/9315	WG1876117	1	06/10/22 12:52	06/19/22 14:39	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG1884067	1	06/28/22 09:26	07/06/22 15:08	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG1877491	1	06/10/22 11:02	07/01/22 10:35	RRE	Mt. Juliet, TN
Radiochemistry by Method D3972 U-02	WG1886219	1	06/28/22 11:13	07/01/22 10:35	RGT	Mt. Juliet, TN

SUMP DUP-05242022 L1500464-02 Non-Potable Water

Collected by: Matt Germansen
 Collected date/time: 05/24/22 13:15
 Received date/time: 06/02/22 10:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 900	WG1877491	1	06/10/22 11:02	06/30/22 17:31	SWM	Mt. Juliet, TN
Radiochemistry by Method 903.0/9315	WG1876117	1	06/10/22 12:52	06/19/22 14:39	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG1884067	1	06/28/22 09:26	07/06/22 15:08	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG1877491	1	06/10/22 11:02	07/01/22 10:35	RRE	Mt. Juliet, TN
Radiochemistry by Method D3972 U-02	WG1886219	1	06/28/22 11:13	07/01/22 10:35	RGT	Mt. Juliet, TN

PRE WTP-05252022 L1500464-03 Non-Potable Water

Collected by: Matt Germansen
 Collected date/time: 05/24/22 14:32
 Received date/time: 06/02/22 10:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 900	WG1877491	1	06/10/22 11:02	06/30/22 17:31	SWM	Mt. Juliet, TN
Radiochemistry by Method 903.0/9315	WG1876117	1	06/10/22 12:52	06/19/22 14:39	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG1884067	1	06/28/22 09:26	07/06/22 15:08	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG1877491	1	06/10/22 11:02	07/01/22 10:35	RRE	Mt. Juliet, TN
Radiochemistry by Method D3972 U-02	WG1886219	1	06/28/22 11:13	07/01/22 10:35	RGT	Mt. Juliet, TN

POST WTP-05252022 L1500464-04 Non-Potable Water

Collected by: Matt Germansen
 Collected date/time: 05/24/22 14:28
 Received date/time: 06/02/22 10:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 900	WG1877491	1	06/10/22 11:02	06/30/22 17:31	SWM	Mt. Juliet, TN
Radiochemistry by Method 903.0/9315	WG1876117	1	06/10/22 12:52	06/19/22 14:39	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG1884067	1	06/28/22 09:26	07/06/22 15:08	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG1877491	1	06/10/22 11:02	07/01/22 10:35	RRE	Mt. Juliet, TN
Radiochemistry by Method D3972 U-02	WG1886219	1	06/28/22 11:13	07/01/22 10:35	RGT	Mt. Juliet, TN

MW01-05252022 L1500464-05 Non-Potable Water

Collected by: Matt Germansen
 Collected date/time: 05/24/22 11:35
 Received date/time: 06/02/22 10:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 900	WG1877491	1	06/10/22 11:02	06/30/22 17:31	SWM	Mt. Juliet, TN
Radiochemistry by Method 903.0/9315	WG1876117	1	06/10/22 12:52	06/19/22 15:40	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG1884067	1	06/28/22 09:26	07/06/22 15:08	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG1877491	1	06/10/22 11:02	07/01/22 10:35	RRE	Mt. Juliet, TN
Radiochemistry by Method D3972 U-02	WG1886219	1	06/28/22 11:13	07/01/22 10:35	RGT	Mt. Juliet, TN



SAMPLE SUMMARY

MW02-05252022 L1500464-06 Non-Potable Water

Collected by: Matt Germansen
 Collected date/time: 05/24/22 10:41
 Received date/time: 06/02/22 10:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 900	WG1877491	1	06/10/22 11:02	06/30/22 17:31	SWM	Mt. Juliet, TN
Radiochemistry by Method 903.0/9315	WG1876117	1	06/10/22 12:52	06/19/22 15:40	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG1884067	1	06/28/22 09:26	07/06/22 15:08	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG1877491	1	06/10/22 11:02	07/21/22 10:12	RRE	Mt. Juliet, TN
Radiochemistry by Method D3972 U-02	WG1895037	1	07/19/22 17:34	07/21/22 10:12	RGT	Mt. Juliet, TN

MW02-05252022 DUP L1500464-07 Non-Potable Water

Collected by: Matt Germansen
 Collected date/time: 05/24/22 10:41
 Received date/time: 06/02/22 10:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 900	WG1877491	1	06/10/22 11:02	06/30/22 17:31	SWM	Mt. Juliet, TN
Radiochemistry by Method 903.0/9315	WG1876117	1	06/10/22 12:52	06/19/22 15:40	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG1884067	1	06/28/22 09:26	07/08/22 13:19	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG1877491	1	06/10/22 11:02	07/21/22 10:12	RRE	Mt. Juliet, TN
Radiochemistry by Method D3972 U-02	WG1895037	1	07/19/22 17:34	07/21/22 10:12	RGT	Mt. Juliet, TN

MW03-05242022 L1500464-08 Non-Potable Water

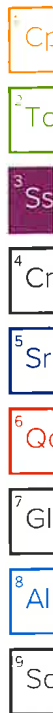
Collected by: Matt Germansen
 Collected date/time: 05/24/22 15:01
 Received date/time: 06/02/22 10:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 900	WG1877491	1	06/10/22 11:02	06/30/22 17:31	SWM	Mt. Juliet, TN
Radiochemistry by Method 903.0/9315	WG1876117	1	06/10/22 12:52	06/19/22 15:40	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG1884834	1	06/28/22 14:03	07/11/22 10:36	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG1877491	1	06/10/22 11:02	07/21/22 10:12	RRE	Mt. Juliet, TN
Radiochemistry by Method D3972 U-02	WG1895037	1	07/19/22 17:34	07/21/22 10:12	RGT	Mt. Juliet, TN

RW01-05252022 L1500464-09 Non-Potable Water

Collected by: Matt Germansen
 Collected date/time: 05/24/22 15:39
 Received date/time: 06/02/22 10:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 900	WG1877491	1	06/10/22 11:02	07/01/22 10:04	SWM	Mt. Juliet, TN
Radiochemistry by Method 903.0/9315	WG1876117	1	06/10/22 12:52	06/19/22 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG1884834	1	06/28/22 14:03	07/11/22 10:36	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG1877491	1	06/10/22 11:02	07/21/22 10:12	RRE	Mt. Juliet, TN
Radiochemistry by Method D3972 U-02	WG1895037	1	07/19/22 17:34	07/21/22 10:12	RGT	Mt. Juliet, TN



CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



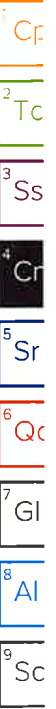
Donna Eidson
Project Manager

Report Revision History

Level II Report - Version 1: 07/22/22 16:16

Project Narrative

Added Adjusted GA per customer request



Radiochemistry by Method 900

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
GROSS ALPHA	33.4		5.53	2.46	06/30/2022 17:31	WG1877491

Radiochemistry by Method 903.0/9315

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Radium-226	2.32		0.588	0.210	06/19/2022 15:40	WG1876117
(T) Barium	109			30.0-143	06/19/2022 15:40	WG1876117

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.529		0.227	0.404	07/06/2022 15:08	WG1884067
(T) Barium	85.7			62.0-143	07/06/2022 15:08	WG1884067
(T) Yttrium	90.8			79.0-136	07/06/2022 15:08	WG1884067

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Adjusted Gross Alpha	20.7				07/01/2022 10:35	WG1877491

Radiochemistry by Method D3972 U-02

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
URANIUM-234	9.13		1.34	0.904	07/01/2022 10:35	WG1886219
URANIUM-235	0.227	<u>J</u>	0.300	0.418	07/01/2022 10:35	WG1886219
URANIUM-238	3.60		0.803	0.484	07/01/2022 10:35	WG1886219
(T) URANIUM-232	73.6			30.0-110	07/01/2022 10:35	WG1886219



Radiochemistry by Method 900

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
GROSS ALPHA	13.0		2.99	1.81	06/30/2022 17:31	WG1877491

Radiochemistry by Method 903.0/9315

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Radium-226	1.24		0.480	0.376	06/19/2022 15:40	WG1876117
(T) Barium	110			30.0-143	06/19/2022 15:40	WG1876117

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	0.132	<u>U</u>	0.197	0.363	07/06/2022 15:08	WG1884067
(T) Barium	91.6			62.0-143	07/06/2022 15:08	WG1884067
(T) Yttrium	101			79.0-136	07/06/2022 15:08	WG1884067

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Adjusted Gross Alpha	6.30				07/21/2022 10:12	WG1877491

Radiochemistry by Method D3972 U-02

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
URANIUM-234	4.63		0.935	0.628	07/21/2022 10:12	WG1895037
URANIUM-235	0.184	<u>J</u>	0.239	0.329	07/21/2022 10:12	WG1895037
URANIUM-238	2.07		0.651	0.535	07/21/2022 10:12	WG1895037
(T) URANIUM-232	78.4			30.0-110	07/21/2022 10:12	WG1895037



Radiochemistry by Method 900

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
GROSS ALPHA	14.0		2.99	1.61	06/30/2022 17:31	WG1877491

Radiochemistry by Method 903.0/9315

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Radium-226	2.00		0.553	0.226	06/19/2022 15:40	WG1876117
(T) Barium	101			30.0-143	06/19/2022 15:40	WG1876117

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	0.444	J	0.193	0.543	07/08/2022 13:19	WG1884067
(T) Barium	88.0			62.0-143	07/08/2022 13:19	WG1884067
(T) Yttrium	97.4			79.0-136	07/08/2022 13:19	WG1884067

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Adjusted Gross Alpha	7.03				07/21/2022 10:12	WG1877491

Radiochemistry by Method D3972 U-02

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
URANIUM-234	4.44		0.945	0.684	07/21/2022 10:12	WG1895037
URANIUM-235	-1.93	U	0.699	1.28	07/21/2022 10:12	WG1895037
URANIUM-238	2.53		0.750	0.642	07/21/2022 10:12	WG1895037
(T) URANIUM-232	77.1			30.0-110	07/21/2022 10:12	WG1895037



Radiochemistry by Method 900

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
GROSS ALPHA	12.4		4.56	3.60	06/30/2022 17:31	WG1877491

Radiochemistry by Method 903.0/9315

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Radium-226	1.33		0.498	0.439	06/19/2022 15:40	WG1876117
(T) Barium	101			30.0-143	06/19/2022 15:40	WG1876117

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	0.314	<u>U</u>	0.178	0.510	07/11/2022 10:36	WG1884834
(T) Barium	89.7			62.0-143	07/11/2022 10:36	WG1884834
(T) Yttrium	99.7			79.0-136	07/11/2022 10:36	WG1884834

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Adjusted Gross Alpha	8.03				07/21/2022 10:12	WG1877491

Radiochemistry by Method D3972 U-02

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
URANIUM-234	2.42		0.757	0.669	07/21/2022 10:12	WG1895037
URANIUM-235	0.197	<u>J</u>	0.254	0.350	07/21/2022 10:12	WG1895037
URANIUM-238	1.94		0.593	0.350	07/21/2022 10:12	WG1895037
(T) URANIUM-232	84.9			30.0-110	07/21/2022 10:12	WG1895037



Radiochemistry by Method 900

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
GROSS ALPHA	19.8		3.12	1.23	07/01/2022 10:04	WG1877491

Radiochemistry by Method 903.0/9315

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Radium-226	1.60		0.489	0.209	06/19/2022 16:40	WG1876117
(T) Barium	109			30.0-143	06/19/2022 16:40	WG1876117

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.188	<u>U</u>	0.169	0.492	07/11/2022 10:36	WG1884834
(T) Barium	98.9			62.0-143	07/11/2022 10:36	WG1884834
(T) Yttrium	99.1			79.0-136	07/11/2022 10:36	WG1884834

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Adjusted Gross Alpha	4.19				07/21/2022 10:12	WG1877491

Radiochemistry by Method D3972 U-02

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
URANIUM-234	10.7		1.37	0.450	07/21/2022 10:12	WG1895037
URANIUM-235	1.04		0.458	0.357	07/21/2022 10:12	WG1895037
URANIUM-238	4.90		0.927	0.357	07/21/2022 10:12	WG1895037
(T) URANIUM-232	72.9			30.0-110	07/21/2022 10:12	WG1895037

1 Cp

2 Tc

3 Ss

4 Cr

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3810171-2 06/30/22 15:20

Analyte	MB Result pCi/l	MB Uncertainty + / -	MB Qualifier	MB Uncertainty + / -	MB MDA pCi/l
GROSS ALPHA	-0.0375	0.477	<u>U</u>	0.477	0.832

L1500306-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1500306-01 06/30/22 17:30 • (DUP) R3810171-5 06/30/22 15:20

Analyte	Original Result pCi/l	Original Uncertainty + / -	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
GROSS ALPHA	-0.138	0.604	1.16	0.665	1.16	1	0.000	0.0886	<u>U</u>	20	3

Laboratory Control Sample (LCS)

(LCS) R3810171-1 06/29/22 17:10

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
GROSS ALPHA	15.0	13.9	92.6	80.0-120	

L1500330-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1500330-01 06/30/22 17:30 • (MS) R3810171-3 06/30/22 15:20 • (MSD) R3810171-4 06/30/22 15:20

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
GROSS ALPHA	15.0	10.4	26.6	26.5	108	108	1	70.0-130			0.339		20

1 Cf

2 Tc

3 Ss

4 Cr

5 Sr

6 Qc

7 Gf

8 Al

9 Sc

Method Blank (MB)

(MB) R3805076-1 06/19/22 12:39

Analyte	MB Result pCi/l	MB Uncertainty + / -	MB Qualifier	MB MDA pCi/l
Radium-226	0.0593	0.0866	J	0.142
(f) Barium	97.0	97.0		

L1502986-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1502986-01 06/19/22 17:40 • (DUP) R3805076-5 06/19/22 13:39

Analyte	Original Result pCi/l	Original Uncertainty + / -	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-226	0.573	0.359	0.364	0.533	0.364	1	7.24	0.0698		20	3
(f) Barium	113	113	113	113	113						

Laboratory Control Sample (LCS)

(LCS) R3805076-2 06/19/22 12:39

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.01	4.90	97.8	80.0-120	
(f) Barium		97.6	97.6		

L1498833-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1498833-01 06/19/22 13:39 • (MS) R3805076-3 06/19/22 12:39 • (MSD) R3805076-4 06/19/22 12:39

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	RPD %	MS RER	RPD Limits %
Radium-226	20.0	12.5	34.3	29.5	109	85.1	1	75.0-125		15.0		20
(f) Barium		103	103	102	102	102						

Method Blank (MB)

(MB) R3812707-1 07/06/22 15:08

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty +/-	MB MDA pCi/l
Radium-228	-0.0362	<u>U</u>	0.173	0.325
(f) Borium	104		104	
(f) Yttrium	90.9		90.9	

L1499212-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1499212-02 07/06/22 15:08 • (DUP) R3812707-5 07/06/22 15:08

Analyte	Original Result pCi/l	Original Uncertainty +/-	DUP Result pCi/l	DUP Uncertainty +/-	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	0.878	0.227	0.391	0.342	0.391	1	96.9	1.40	<u>J</u>	20	3
(f) Borium	85.3		87.3	87.3							
(f) Yttrium	96.1		100	100							

Laboratory Control Sample (LCS)

(LCS) R3812707-2 07/06/22 15:08

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	4.47	89.3	80.0-120	
(f) Borium			112		
(f) Yttrium			95.7		

L1499212-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1499212-01 07/06/22 15:08 • (MS) R3812707-3 07/06/22 15:08 • (MSD) R3812707-4 07/06/22 15:08

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	10.0	0.154	10.6	9.51	105	93.6	1	70.0-130		11.2		20
(f) Borium		84.2			92.4	93.2						
(f) Yttrium		93.8			98.2	101						

WG1884834

Radiochemistry by Method 904/9320

QUALITY CONTROL SUMMARY

L1500464-08.09

Method Blank (MB)

(MB) R3813855-1 07/08/22 13:19

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / -	MB MDA pCi/l
Radium-228	0.210	<u>U</u>	0.117	0.333
(f) Barium	112		112	
(f) Yttrium	102		102	

L1506370-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1506370-06 07/11/22 10:36 • (DUP) R3813855-5 07/08/22 13:19

Analyte	Original Result Bq/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	0.0161	0.00830	0.0236	0.792	0.326	0.0236	1	192	2.38	<u>J</u>	20	3
(f) Barium	87.8			102	102							
(f) Yttrium	100			93.3	93.3							

Laboratory Control Sample (LCS)

(LCS) R3813855-2 07/08/22 13:19

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	4.34	86.8	80.0-120	
(f) Barium			113		
(f) Yttrium			101		

L1501712-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1501712-01 07/11/22 10:36 • (MS) R3813855-3 07/08/22 13:19 • (MSD) R3813855-4 07/08/22 13:19

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	10.0	0.0423	10.2	10.6	102	106	1	70.0-130			4.13		20
(f) Barium		100			103	103							
(f) Yttrium		89.8			105	97.6							

WG1886219

Radiochemistry by Method D3972 U-02

QUALITY CONTROL SUMMARY

L1500464-01.02.03.04.05

Method Blank (MB)

(MB) R3810230-1 07/01/22 10:35

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / -	MB MDA pCi/l
URANIUM-234	0.272	J	0.266	0.346
URANIUM-235	0.117	J	0.188	0.275
URANIUM-238	0.170	J	0.200	0.275
(T) URANIUM-232	96.2		96.2	

L1506370-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1506370-01 07/01/22 10:51 • (DUP) R3810230-5 07/01/22 10:35

Analyte	Original Result Bq/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
URANIUM-234	0.00475	0.0103	0.0162	0.120	0.304	0.0162	1	185	0.380	U	20	3
URANIUM-235	0.000889	0.00694	0.0128	0.102	0.208	0.0128	1	197	0.483	U	20	3
URANIUM-238	0.00951	0.00982	0.0128	0.0401	0.176	0.0128	1	123	0.174	U	20	3
(T) URANIUM-232	83.4			79.1	79.1							

Laboratory Control Sample (LCS)

(LCS) R3810230-2 07/01/22 10:35

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
URANIUM-234	25.2	22.5	89.2	80.0-120	
URANIUM-238	24.5	22.7	92.6	80.0-120	
(T) URANIUM-232			86.9		

L1500464-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1500464-01 07/01/22 10:35 • (MS) R3810230-3 07/01/22 10:35 • (MSD) R3810230-4 07/01/22 10:35

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
URANIUM-234	25.2	80.4	103	110	1	75.0-125			6.19		20
URANIUM-238	24.5	38.6	63.5	58.7	1	75.0-125			7.79		20
(T) URANIUM-232		74.9		74.6							

WG1895037

Radiochemistry by Method D3972 U-02

QUALITY CONTROL SUMMARY

L1500464-06,07,08,09

Method Blank (MB)

(MB) R3818158-1 07/21/22 10:12

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / -	MB MDA pCi/l
URANIUM-234	0.0538	U	0.183	0.278
URANIUM-235	-0.00470	U	0.0703	0.145
URANIUM-238	0.0359	U	0.111	0.183
(T) URANIUM-232	45.7		45.7	

L1501073-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1501073-07 07/21/22 10:24 • (DUP) R3818158-6 07/21/22 18:38

Analyte	Original Result pCi/l	Original Uncertainty + / -	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
URANIUM-234	1.25	0.698	0.833	0.606	2.75	1	75.5	1.63		20	3
URANIUM-235	0.359	0.277	0.306	0.258	0.297	1	18.9	0.163	J	20	3
URANIUM-238	1.70	0.558	0.446	0.453	1.29	1	27.2	0.566		20	3
(T) URANIUM-232	73.5		50.2	50.2							

Laboratory Control Sample (LCS)

(LCS) R3818158-2 07/21/22 10:12

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
URANIUM-234	10.1	9.77	96.7	80.0-120	
URANIUM-238	9.80	10.6	108	80.0-120	
(T) URANIUM-232			85.4		

L1500464-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1500464-06 07/21/22 10:12 • (MS) R3818158-3 07/21/22 10:12 • (MSD) R3818158-4 07/21/22 10:12

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
URANIUM-234	40.2	4.63	42.2	43.3	93.3	1	75.0-125			2.78		20
URANIUM-238	39.2	2.07	41.1	43.1	99.5	1	75.0-125			4.87		20
(T) URANIUM-232		78.4			77.1							

ACCOUNT:

PROJECT:

SDG:

DATE/TIME:

PAGE:

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

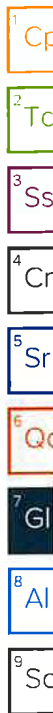
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDA	Minimum Detectable Activity.
Rec.	Recovery.
RER	Replicate Error Ratio.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(T)	Tracer - A radioisotope of known concentration added to a solution of chemically equivalent radioisotopes at a known concentration to assist in monitoring the yield of the chemical separation.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Below Detectable Limits: Indicates that the analyte was not detected.



ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-05-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



Energy Fuels Resources
 225 Union Blvd
 Suite 600
 Lakewood, CO 80228

Billing Information:
 Accounts Payable
 225 Union Blvd
 Suite 600
 Lakewood, CO 80228

Report to: **Kathy Weinel**
 Email To: **KWeinel@energyfuels.com**

Project Description:
Pinyon Plane RAD

City/State Collected: **Usayon, AZ**

Client Project # **Pinyon Plain Gw**

Site/Facility ID # **Pinyon Plain**

Phone: **303-389-4134**

Collected by (print): **Matt Germansen**

Collected by (signature): *[Signature]*

Immediately Packed on Ice N Y

City/State Collected: **Usayon, AZ**

Lab Project # **001028802**

P.O. # **001028802**

Quote #

Date Results Needed

Please Circle: PT MT CT ET

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs
① Sump - 05242022		NPW		5/24/22	1315	3
Sump Dup - 05242022		NPW		5/24/22	1315	3
② Pre WTP - 05252022		NPW		5/25/22	1432	3
Post WTP - 05252022		NPW		5/25/22	1428	3
MW01 - 05252022		NPW		5/25/22	1135	3
MW02 - 05262022		NPW		5/26/22	1041	3
MW02 Dup - 05262022 Dup		NPW		5/26/22	1041	3
MW03 Dup - 05242022		NPW		5/24/22	1501	3
RW01 - 05252022		NPW		5/25/22	1539	3

Analysis / Container / Preservative	Pres Chk	Remarks	Sample # (lab only)
GROSS ALPHA, RA-226 1L-HDPE-Add HNO3	X		-01
RA-228 1L-HDPE-Add HNO3	X		-02
U-ISO 1L-HDPE-Add HNO3	X		-03
	X		-04
	X		-05
	X		-06
	X		-07
	X		-08
	X		-09

Remarks: No Ice Required

* Matrix: SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - Waste Water
 DW - Drinking Water
 OT - Other

Samples returned via: **UPS** FedEx Courier

Relinquished by: (Signature) *[Signature]* Date: 5/26/22 Time: 1210

Relinquished by: (Signature) **Matt Germansen**

Relinquished by: (Signature)

Temp: **29.2 to 29.2** °C
 Date: **6/2/22**
 Time: **1015**

Received by: (Signature) *[Signature]*

Received for lab by: (Signature) *[Signature]*

Condition: **NCF / OK**

Chain of Custody Page of

Energy Fuels Resources

12065 Lebanon Rd Mount Juliet, TN 37122
 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at <http://info.paceanalytical.com/terms/pace-standard-terms.pdf>

SDG # **U500464**
A056

Accntnum: **ENEFUELCO**
 Template: **T199351**
 Prelogin: **P894564**
 PM: **732 - Donna Eldson**
 PB: **121622100**

Shipped Via: **FedEX Ground**

Sample Receipt Checklist

COC Seal Present/Intact: N N
 COC Signed/Accurate: N N
 Bottles airtight: N N
 Correct bottles used: N N
 Sufficient volume sent: N N
 If Applicable

VOA Zero Headspace: Y N
 Preservation Correct/Checked: Y N
 RAD Screen <0.5 mR/hr: Y N

If preservation required by Login: Date/Time



ANALYTICAL REPORT

January 27, 2023

Revised Report

Energy Fuels Resources

Sample Delivery Group: L1538188

Samples Received: 09/21/2022

Project Number:

Description:

Report To: Kathy Weinel
 225 Union Blvd
 Suite 600
 Lakewood, CO 80228



Entire Report Reviewed By:

Donna Eidson
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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SAMPLE SUMMARY

MW01_09182022 L1538188-01 GW

Collected by: Matt Germansen
 Collected date/time: 09/18/22 16:51
 Received date/time: 09/21/22 09:50

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1931404	1	09/23/22 13:37	09/23/22 17:53	MMF	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1934923	1	09/30/22 13:02	09/30/22 13:02	ARD	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1937261	1	10/05/22 16:42	10/05/22 16:42	CAT	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG1933529	1	09/29/22 05:00	09/29/22 05:00	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1930442	1	09/23/22 08:15	09/23/22 08:15	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1931595	10	09/26/22 23:44	09/26/22 23:44	LBR	Mt. Juliet, TN
Mercury by Method 7470A	WG1942187	1	10/20/22 14:45	10/23/22 13:35	SRT	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1947739	1	10/25/22 10:22	10/28/22 00:16	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1993788	1	01/24/23 17:26	01/24/23 19:04	LD	Mt. Juliet, TN

MW02_09182022 L1538188-02 GW

Collected by: Matt Germansen
 Collected date/time: 09/18/22 16:35
 Received date/time: 09/21/22 09:50

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1931404	1	09/23/22 13:37	09/23/22 17:53	MMF	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1934923	1	09/30/22 13:08	09/30/22 13:08	ARD	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1937261	1	10/05/22 16:43	10/05/22 16:43	CAT	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG1933529	1	09/29/22 05:00	09/29/22 05:00	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1930442	1	09/23/22 08:32	09/23/22 08:32	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG1942187	1	10/20/22 14:45	10/23/22 13:37	SRT	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1947739	1	10/25/22 10:22	10/28/22 00:27	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1993788	1	01/24/23 17:26	01/24/23 19:18	LD	Mt. Juliet, TN

MW03_09182022 L1538188-03 GW

Collected by: Matt Germansen
 Collected date/time: 09/18/22 16:27
 Received date/time: 09/21/22 09:50

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1931404	1	09/23/22 13:37	09/23/22 17:53	MMF	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1934923	1	09/30/22 13:13	09/30/22 13:13	ARD	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1937261	1	10/05/22 16:48	10/05/22 16:48	CAT	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG1933529	1	09/29/22 05:00	09/29/22 05:00	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1930442	1	09/23/22 08:49	09/23/22 08:49	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1930442	5	09/23/22 09:06	09/23/22 09:06	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG1942187	1	10/20/22 14:45	10/23/22 13:25	SRT	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1947739	1	10/25/22 10:22	10/28/22 00:29	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1993788	1	01/24/23 17:26	01/24/23 19:21	LD	Mt. Juliet, TN

MW65_09182022 L1538188-04 GW

Collected by: Matt Germansen
 Collected date/time: 09/18/22 16:27
 Received date/time: 09/21/22 09:50

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1931404	1	09/23/22 13:37	09/23/22 17:53	MMF	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1934923	1	09/30/22 13:17	09/30/22 13:17	ARD	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1937261	1	10/05/22 16:49	10/05/22 16:49	CAT	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG1933529	1	09/29/22 05:00	09/29/22 05:00	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1930442	1	09/23/22 09:23	09/23/22 09:23	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1930442	5	09/23/22 09:40	09/23/22 09:40	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG1942187	1	10/20/22 14:45	10/23/22 13:39	SRT	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1947739	1	10/25/22 10:22	10/28/22 00:32	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1993788	1	01/24/23 17:26	01/24/23 19:24	LD	Mt. Juliet, TN



CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Donna Eidson
Project Manager

Report Revision History

Level II Report - Version 1: 10/28/22 13:38

Project Narrative

Added 6020 U



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	618		10.0	1	09/23/2022 17:53	WG1931404

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Alkalinity, Carbonate	U		8.45	20.0	1	09/30/2022 13:02	WG1934923

Sample Narrative:

L1538188-01 WG1934923: Endpoint pH 4.5

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.0500	0.100	1	10/05/2022 16:42	WG1937261

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	su			date / time	
pH	7.72	<u>T8</u>	1	09/29/2022 05:00	WG1933529

Sample Narrative:

L1538188-01 WG1933529: 7.72 at 20.6C

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Fluoride	0.148	<u>J</u>	0.0640	0.150	1	09/23/2022 08:15	WG1930442
Sulfate	252		5.94	50.0	10	09/26/2022 23:44	WG1931595

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury, Dissolved	U		0.000100	0.000200	1	10/23/2022 13:35	WG1942187

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Antimony, Dissolved	U		0.00430	0.0100	1	10/28/2022 00:16	WG1947739
Arsenic, Dissolved	0.0435		0.00440	0.0100	1	10/28/2022 00:16	WG1947739
Barium, Dissolved	0.0252		0.000736	0.00500	1	10/28/2022 00:16	WG1947739
Beryllium, Dissolved	U		0.000330	0.00200	1	10/28/2022 00:16	WG1947739
Cadmium, Dissolved	U		0.000479	0.00200	1	10/28/2022 00:16	WG1947739
Calcium, Dissolved	107		0.0793	1.00	1	10/28/2022 00:16	WG1947739
Chromium, Dissolved	U		0.00140	0.0100	1	10/28/2022 00:16	WG1947739
Copper, Dissolved	U		0.00368	0.0100	1	10/28/2022 00:16	WG1947739
Iron, Dissolved	0.128		0.0180	0.100	1	10/28/2022 00:16	WG1947739
Lead, Dissolved	U		0.00299	0.00600	1	10/28/2022 00:16	WG1947739
Magnesium, Dissolved	58.3		0.0853	1.00	1	10/28/2022 00:16	WG1947739
Manganese, Dissolved	0.0438		0.000934	0.0100	1	10/28/2022 00:16	WG1947739
Nickel, Dissolved	0.0534		0.00161	0.0100	1	10/28/2022 00:16	WG1947739
Potassium, Dissolved	1.60	<u>J</u>	0.261	2.00	1	10/28/2022 00:16	WG1947739
Selenium, Dissolved	U		0.00735	0.0100	1	10/28/2022 00:16	WG1947739
Sodium, Dissolved	3.06		0.504	3.00	1	10/28/2022 00:16	WG1947739



Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Thallium,Dissolved	0.00433	J	0.00431	0.0100	1	10/28/2022 00:16	WG1947739
Vanadium,Dissolved	U		0.00499	0.0200	1	10/28/2022 00:16	WG1947739
Zinc,Dissolved	1.22		0.00652	0.0500	1	10/28/2022 00:16	WG1947739

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Uranium	0.0103		0.0000789	0.00100	1	01/24/2023 19:04	WG1993788



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	410		10.0	1	09/23/2022 17:53	WG1931404

Wet Chemistry by Method 2320 B-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Alkalinity,Carbonate	U		8.45	20.0	1	09/30/2022 13:08	WG1934923

Sample Narrative:

L1538188-02 WG1934923: Endpoint pH 4.5

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0500	0.100	1	10/05/2022 16:43	WG1937261

Wet Chemistry by Method 9040C

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.77	<u>T8</u>	1	09/29/2022 05:00	WG1933529

Sample Narrative:

L1538188-02 WG1933529: 7.77 at 20.7C

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Fluoride	0.132	<u>J</u>	0.0640	0.150	1	09/23/2022 08:32	WG1930442
Sulfate	122		0.594	5.00	1	09/23/2022 08:32	WG1930442

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury,Dissolved	U		0.000100	0.000200	1	10/23/2022 13:37	WG1942187

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Antimony,Dissolved	U		0.00430	0.0100	1	10/28/2022 00:27	WG1947739
Arsenic,Dissolved	0.00584	<u>J</u>	0.00440	0.0100	1	10/28/2022 00:27	WG1947739
Barium,Dissolved	0.0496		0.000736	0.00500	1	10/28/2022 00:27	WG1947739
Beryllium,Dissolved	U		0.000330	0.00200	1	10/28/2022 00:27	WG1947739
Cadmium,Dissolved	U		0.000479	0.00200	1	10/28/2022 00:27	WG1947739
Calcium,Dissolved	76.9		0.0793	1.00	1	10/28/2022 00:27	WG1947739
Chromium,Dissolved	U		0.00140	0.0100	1	10/28/2022 00:27	WG1947739
Copper,Dissolved	U		0.00368	0.0100	1	10/28/2022 00:27	WG1947739
Iron,Dissolved	U		0.0180	0.100	1	10/28/2022 00:27	WG1947739
Lead,Dissolved	U		0.00299	0.00600	1	10/28/2022 00:27	WG1947739
Magnesium,Dissolved	40.8		0.0853	1.00	1	10/28/2022 00:27	WG1947739
Manganese,Dissolved	0.0190		0.000934	0.0100	1	10/28/2022 00:27	WG1947739
Nickel,Dissolved	0.0156		0.00161	0.0100	1	10/28/2022 00:27	WG1947739
Potassium,Dissolved	2.09		0.261	2.00	1	10/28/2022 00:27	WG1947739
Selenium,Dissolved	U		0.00735	0.0100	1	10/28/2022 00:27	WG1947739
Sodium,Dissolved	2.61	<u>J</u>	0.504	3.00	1	10/28/2022 00:27	WG1947739



Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Thallium,Dissolved	0.00522	J	0.00431	0.0100	1	10/28/2022 00:27	WG1947739
Vanadium,Dissolved	U		0.00499	0.0200	1	10/28/2022 00:27	WG1947739
Zinc,Dissolved	0.726		0.00652	0.0500	1	10/28/2022 00:27	WG1947739

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Uranium	0.00504		0.0000789	0.00100	1	01/24/2023 19:18	WG1993788



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	1140		20.0	1	09/23/2022 17:53	WG1931404

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity,Carbonate	U		8.45	20.0	1	09/30/2022 13:13	WG1934923

Sample Narrative:

L1538188-03 WG1934923: Endpoint pH 4.5

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0500	0.100	1	10/05/2022 16:48	WG1937261

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	7.12	T8	1	09/29/2022 05:00	WG1933529

Sample Narrative:

L1538188-03 WG1933529: 7.12 at 20.8C

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Fluoride	0.0694	J	0.0640	0.150	1	09/23/2022 08:49	WG1930442
Sulfate	684		2.97	25.0	5	09/23/2022 09:06	WG1930442

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Mercury,Dissolved	U		0.000100	0.000200	1	10/23/2022 13:25	WG1942187

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Antimony,Dissolved	U		0.00430	0.0100	1	10/28/2022 00:29	WG1947739
Arsenic,Dissolved	0.0221		0.00440	0.0100	1	10/28/2022 00:29	WG1947739
Barium,Dissolved	0.00821		0.000736	0.00500	1	10/28/2022 00:29	WG1947739
Beryllium,Dissolved	U		0.000330	0.00200	1	10/28/2022 00:29	WG1947739
Cadmium,Dissolved	U		0.000479	0.00200	1	10/28/2022 00:29	WG1947739
Calcium,Dissolved	185		0.0793	1.00	1	10/28/2022 00:29	WG1947739
Chromium,Dissolved	U		0.00140	0.0100	1	10/28/2022 00:29	WG1947739
Copper,Dissolved	U		0.00368	0.0100	1	10/28/2022 00:29	WG1947739
Iron,Dissolved	14.4		0.0180	0.100	1	10/28/2022 00:29	WG1947739
Lead,Dissolved	U		0.00299	0.00600	1	10/28/2022 00:29	WG1947739
Magnesium,Dissolved	97.4		0.0853	1.00	1	10/28/2022 00:29	WG1947739
Manganese,Dissolved	0.295		0.000934	0.0100	1	10/28/2022 00:29	WG1947739
Nickel,Dissolved	0.154		0.00161	0.0100	1	10/28/2022 00:29	WG1947739
Potassium,Dissolved	2.19		0.261	2.00	1	10/28/2022 00:29	WG1947739
Selenium,Dissolved	U		0.00735	0.0100	1	10/28/2022 00:29	WG1947739
Sodium,Dissolved	3.82		0.504	3.00	1	10/28/2022 00:29	WG1947739



Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Thallium,Dissolved	0.00684	J	0.00431	0.0100	1	10/28/2022 00:29	WG1947739
Vanadium,Dissolved	U		0.00499	0.0200	1	10/28/2022 00:29	WG1947739
Zinc,Dissolved	2.99		0.00652	0.0500	1	10/28/2022 00:29	WG1947739

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Uranium	0.00538		0.0000789	0.00100	1	01/24/2023 19:21	WG1993788

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cr
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	1110		20.0	1	09/23/2022 17:53	WG1931404

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Alkalinity,Carbonate	U		8.45	20.0	1	09/30/2022 13:17	WG1934923

Sample Narrative:

L1538188-04 WG1934923: Endpoint pH 4.5

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.0500	0.100	1	10/05/2022 16:49	WG1937261

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	su			date / time	
pH	7.11	T8	1	09/29/2022 05:00	WG1933529

Sample Narrative:

L1538188-04 WG1933529: 7.11 at 20.9C

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Fluoride	0.0698	J	0.0640	0.150	1	09/23/2022 09:23	WG1930442
Sulfate	687		2.97	25.0	5	09/23/2022 09:40	WG1930442

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury,Dissolved	U		0.000100	0.000200	1	10/23/2022 13:39	WG1942187

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Antimony,Dissolved	U		0.00430	0.0100	1	10/28/2022 00:32	WG1947739
Arsenic,Dissolved	0.0251		0.00440	0.0100	1	10/28/2022 00:32	WG1947739
Barium,Dissolved	0.00874		0.000736	0.00500	1	10/28/2022 00:32	WG1947739
Beryllium,Dissolved	U		0.000330	0.00200	1	10/28/2022 00:32	WG1947739
Cadmium,Dissolved	U		0.000479	0.00200	1	10/28/2022 00:32	WG1947739
Calcium,Dissolved	185		0.0793	1.00	1	10/28/2022 00:32	WG1947739
Chromium,Dissolved	U		0.00140	0.0100	1	10/28/2022 00:32	WG1947739
Copper,Dissolved	U		0.00368	0.0100	1	10/28/2022 00:32	WG1947739
Iron,Dissolved	14.5		0.0180	0.100	1	10/28/2022 00:32	WG1947739
Lead,Dissolved	U		0.00299	0.00600	1	10/28/2022 00:32	WG1947739
Magnesium,Dissolved	96.9		0.0853	1.00	1	10/28/2022 00:32	WG1947739
Manganese,Dissolved	0.295		0.000934	0.0100	1	10/28/2022 00:32	WG1947739
Nickel,Dissolved	0.154		0.00161	0.0100	1	10/28/2022 00:32	WG1947739
Potassium,Dissolved	2.19		0.261	2.00	1	10/28/2022 00:32	WG1947739
Selenium,Dissolved	0.00797	B J	0.00735	0.0100	1	10/28/2022 00:32	WG1947739
Sodium,Dissolved	3.81		0.504	3.00	1	10/28/2022 00:32	WG1947739



Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Thallium,Dissolved	U		0.00431	0.0100	1	10/28/2022 00:32	WG1947739
Vanadium,Dissolved	U		0.00499	0.0200	1	10/28/2022 00:32	WG1947739
Zinc,Dissolved	3.01		0.00652	0.0500	1	10/28/2022 00:32	WG1947739

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Uranium	0.00542		0.0000789	0.00100	1	01/24/2023 19:24	WG1993788

- 1 Cf
- 2 Tc
- 3 Ss
- 4 Cr
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Method Blank (MB)

(MB) R3841530-1 09/23/22 17:53

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U	10.0	10.0	10.0

L1538188-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1538188-03 09/23/22 17:53 • (DUP) R3841530-3 09/23/22 17:53

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	1140	1140	1	0.351		5

L1538188-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1538188-04 09/23/22 17:53 • (DUP) R3841530-4 09/23/22 17:53

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	1110	1170	1	4.74		5

Laboratory Control Sample (LCS)

(LCS) R3841530-2 09/23/22 17:53

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8350	94.9	77.3-123	

Method Blank (MB)

(MB) R3843395-2 09/30/22 12:41

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Alkalinity, Carbonate	U	8.45	20.0	20.0

Sample Narrative:

BLANK: Endpoint pH 4.5

L1538122-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1538122-01 09/30/22 12:50 • (DUP) R3843395-3 09/30/22 12:54

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity, Carbonate	U	U	1	0.000		20

Sample Narrative:

OS: Endpoint pH 4.5
DUP: Endpoint pH 4.5

L1538590-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1538590-04 09/30/22 14:27 • (DUP) R3843395-4 09/30/22 14:31

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity, Carbonate	U	U	1	0.000		20

Sample Narrative:

OS: Endpoint pH 4.5
DUP: Endpoint pH 4.5

1	Cf
2	Tc
3	Ss
4	Cr
5	Sr
6	OC
7	Gl
8	Al
9	Sc

Method Blank (MB)

(MB) R3845157-1 10/05/22 16:39					
Analyte	MB Result mg/l	<u>MB Qualifier</u> mg/l	MB MDL mg/l	MB RDL mg/l	
Nitrate-Nitrite	U	0.0500	0.100		

L1538188-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1538188-02 10/05/22 16:43 • (DUP) R3845157-3 10/05/22 16:44

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u> %	DUP RPD Limits %
Nitrate-Nitrite	U	U	1	0.000		20

L1538189-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1538189-02 10/05/22 16:56 • (DUP) R3845157-6 10/05/22 16:57

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u> %	DUP RPD Limits %
Nitrate-Nitrite	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3845157-2 10/05/22 16:40

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u> %
Nitrate-Nitrite	2.50	2.64	106	90.0-110	

L1538188-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1538188-02 10/05/22 16:43 • (MS) R3845157-4 10/05/22 16:45 • (MSD) R3845157-5 10/05/22 16:47

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u> %	<u>MSD Qualifier</u> %	RPD %	RPD Limits %
Nitrate-Nitrite	2.50	U	2.62	2.62	105	105	1	90.0-110		0.000		20

L1538189-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1538189-02 10/05/22 16:56 • (MS) R3845157-7 10/05/22 16:58

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u> %
Nitrate-Nitrite	2.50	U	2.56	102	1	90.0-110	

L1536882-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1536882-01 09/29/22 05:00 • (DUP) R3842577-2 09/29/22 05:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	SU	SU	%	%		%
pH	7.79	7.82	1	0.384		1

Sample Narrative:

OS: 7.79 at 21.1C
DUP: 7.82 at 21.1C

Laboratory Control Sample (LCS)

(LCS) R3842577-1 09/29/22 05:00

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	SU	SU	%	%	
pH	10.0	9.91	99.1	99.0-101	

Sample Narrative:

LCS: 9.91 at 21.3C



WG1930442

Wet Chemistry by Method 9056A

QUALITY CONTROL SUMMARY

L1538188-01.02.03.04

Method Blank (MB)

(MB) R3840737-1 09/22/22 23:07

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Fluoride	U	0.0640	0.150	
Sulfate	U	0.594	5.00	

L1537941-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1537941-09 09/23/22 01:12 • (DUP) R3840737-3 09/23/22 01:28

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Fluoride	U	U	1	0.000		15
Sulfate	U	U	1	0.000		15

L1538136-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1538136-01 09/23/22 02:19 • (DUP) R3840737-6 09/23/22 02:36

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Fluoride	0.0721	0.0724	1	0.415	J	15
Sulfate	91.1	91.2	1	0.0615		15

Laboratory Control Sample (LCS)

(LCS) R3840737-2 09/22/22 23:24

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluoride	8.00	8.06	101	80.0-120	
Sulfate	40.0	39.2	97.9	80.0-120	

L1537941-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1537941-09 09/23/22 01:12 • (MS) R3840737-4 09/23/22 01:45 • (MSD) R3840737-5 09/23/22 02:02

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Fluoride	5.00	U	4.95	4.99	1	80.0-120	99.0	99.8	0.815	15
Sulfate	50.0	U	48.2	48.6	1	80.0-120	96.4	97.2	0.872	15

ACCOUNT:

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SDG:

DATE/TIME:

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WG1930442

Wet Chemistry by Method 9056A

QUALITY CONTROL SUMMARY

[L1538188-01,02,03,04](#)

L1538136-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1538136-01 09/23/22 02:19 • (MS) R3840737-7 09/23/22 02:53

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Fluoride	5.00	0.0721	5.06	99.7	1	80.0-120	
Sulfate	50.0	91.1	136	90.8	1	80.0-120	

1 Cf

2 Tc

3 Ss

4 Cr

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3841951-1 09/26/22 23:08

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Sulfate	U	0.594	5.00	5.00

L1538951-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1538951-04 09/27/22 04:12 • (DUP) R3841951-3 09/27/22 04:30

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Sulfate	12.0	12.0	1	0.0242		15

L1538951-16 Original Sample (OS) • Duplicate (DUP)

(OS) L1538951-16 09/27/22 10:10 • (DUP) R3841951-6 09/27/22 10:28

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Sulfate	12.5	12.0	1	4.13		15

Laboratory Control Sample (LCS)

(LCS) R3841951-2 09/26/22 23:26

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Sulfate	40.0	38.8	97.1	80.0-120	

L1538951-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1538951-05 09/27/22 04:48 • (MS) R3841951-4 09/27/22 05:06 • (MSD) R3841951-5 09/27/22 05:24

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Sulfate	50.0	U	45.6	45.6	91.1	91.2	1	80.0-120		0.0658	15	

L1538951-16 Original Sample (OS) • Matrix Spike (MS)

(OS) L1538951-16 09/27/22 10:10 • (MS) R3841951-7 09/27/22 10:46

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Sulfate	50.0	12.5	63.0	101	1	80.0-120	



Method Blank (MB)

(MB) R3851892-1 10/23/22 13:21

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury, Dissolved	U	0.000100	0.000200	0.000200

Laboratory Control Sample (LCS)

(LCS) R3851892-2 10/23/22 13:23

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury, Dissolved	0.00300	0.00326	109	80.0-120	

L1538188-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1538188-03 10/23/22 13:25 • (MS) R3851892-3 10/23/22 13:27 • (MSD) R3851892-4 10/23/22 13:33

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury, Dissolved	0.00300	U	0.00325	0.00336	1	75.0-125	108	112	3.26	20

1	Cf
2	Tc
3	Ss
4	Cr
5	Sr
6	Co
7	Gl
8	Al
9	Sc

WG1947739

Metals (ICP) by Method 6010B

QUALITY CONTROL SUMMARY

L1538188-01.02.03.04

Method Blank (MB)

(MB) R3854049-1 10/28/22 00:10

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Antimony, Dissolved	U		0.00430	0.0100
Arsenic, Dissolved	U		0.00440	0.0100
Barium, Dissolved	U		0.000736	0.00500
Beryllium, Dissolved	U		0.000330	0.00200
Cadmium, Dissolved	U		0.000479	0.00200
Calcium, Dissolved	U		0.0793	1.00
Chromium, Dissolved	U		0.00140	0.0100
Copper, Dissolved	U		0.00368	0.0100
Iron, Dissolved	U		0.0180	0.100
Lead, Dissolved	U		0.00299	0.00600
Magnesium, Dissolved	U		0.0853	1.00
Manganese, Dissolved	U		0.000934	0.0100
Nickel, Dissolved	U		0.00161	0.0100
Potassium, Dissolved	U		0.261	2.00
Selenium, Dissolved	0.00985	J	0.00735	0.0100
Sodium, Dissolved	U		0.504	3.00
Thallium, Dissolved	U		0.00431	0.0100
Vanadium, Dissolved	U		0.00499	0.0200
Zinc, Dissolved	U		0.00652	0.0500

Laboratory Control Sample (LCS)

(LCS) R3854049-2 10/28/22 00:13

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Antimony, Dissolved	1.00	0.944	94.4	80.0-120	
Arsenic, Dissolved	1.00	0.919	91.9	80.0-120	
Barium, Dissolved	1.00	0.984	98.4	80.0-120	
Beryllium, Dissolved	1.00	0.947	94.7	80.0-120	
Cadmium, Dissolved	1.00	0.953	95.3	80.0-120	
Calcium, Dissolved	10.0	9.75	97.5	80.0-120	
Chromium, Dissolved	1.00	0.953	95.3	80.0-120	
Copper, Dissolved	1.00	0.964	96.4	80.0-120	
Iron, Dissolved	10.0	9.66	96.6	80.0-120	
Lead, Dissolved	1.00	0.950	95.0	80.0-120	
Magnesium, Dissolved	10.0	9.96	99.6	80.0-120	
Manganese, Dissolved	1.00	0.909	90.9	80.0-120	
Nickel, Dissolved	1.00	0.953	95.3	80.0-120	
Potassium, Dissolved	10.0	9.25	92.5	80.0-120	

ACCOUNT:

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WG1947739

Metals (ICP) by Method 6010B

QUALITY CONTROL SUMMARY

L1538188-01.02.03.04

Laboratory Control Sample (LCS)

(LCS) R3854049-2 10/28/22 00:13

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Selenium, Dissolved	1.00	0.957	95.7	80.0-120	
Sodium, Dissolved	10.0	9.66	96.6	80.0-120	
Thallium, Dissolved	1.00	0.949	94.9	80.0-120	
Vanadium, Dissolved	1.00	0.962	96.2	80.0-120	
Zinc, Dissolved	1.00	0.950	95.0	80.0-120	

L1538188-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1538188-01 10/28/22 00:16 • (MS) R3854049-4 10/28/22 00:21 • (MSD) R3854049-5 10/28/22 00:24

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Antimony, Dissolved	1.00	U	0.964	0.971	96.4	97.1	1	75.0-125			0.695	20
Arsenic, Dissolved	1.00	0.0435	0.990	0.978	94.6	93.4	1	75.0-125			1.25	20
Barium, Dissolved	1.00	0.0252	0.988	0.991	96.3	96.6	1	75.0-125			0.343	20
Beryllium, Dissolved	1.00	U	0.919	0.925	91.9	92.5	1	75.0-125			0.688	20
Cadmium, Dissolved	1.00	U	0.960	0.963	96.0	96.3	1	75.0-125			0.376	20
Calcium, Dissolved	10.0	107	116	115	85.4	78.0	1	75.0-125			0.642	20
Chromium, Dissolved	1.00	U	0.936	0.938	93.6	93.8	1	75.0-125			0.200	20
Copper, Dissolved	1.00	U	0.988	0.975	98.8	97.5	1	75.0-125			1.30	20
Iron, Dissolved	10.0	0.128	9.57	9.63	94.4	95.0	1	75.0-125			0.579	20
Lead, Dissolved	1.00	U	0.937	0.945	93.7	94.5	1	75.0-125			0.796	20
Magnesium, Dissolved	10.0	58.3	67.1	67.0	87.3	86.5	1	75.0-125			0.127	20
Manganese, Dissolved	1.00	0.0438	0.926	0.931	88.2	88.7	1	75.0-125			0.509	20
Nickel, Dissolved	1.00	0.0534	0.976	0.985	92.2	93.2	1	75.0-125			0.968	20
Potassium, Dissolved	10.0	1.60	10.9	10.8	93.0	92.0	1	75.0-125			0.943	20
Selenium, Dissolved	1.00	U	0.961	0.962	96.1	96.2	1	75.0-125			0.0782	20
Sodium, Dissolved	10.0	3.06	12.6	12.6	95.6	95.9	1	75.0-125			0.252	20
Thallium, Dissolved	1.00	0.00433	0.946	0.948	94.1	94.3	1	75.0-125			0.199	20
Vanadium, Dissolved	1.00	U	0.957	0.959	95.7	95.9	1	75.0-125			0.244	20
Zinc, Dissolved	1.00	1.22	2.14	2.11	92.1	89.3	1	75.0-125			1.33	20

ACCOUNT:

PROJECT:

SDG:

DATE/TIME:

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WG1993788

Metals (ICPMS) by Method 6020

QUALITY CONTROL SUMMARY

[L1538188-01.02.03.04](#)

Method Blank (MB)

(MB) R3884013-1 01/24/23 18:58

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Uranium	U	0.0000789	0.00100	0.00100

Laboratory Control Sample (LCS)

(LCS) R3884013-2 01/24/23 19:01

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits mg/l	LCS Qualifier
Uranium	0.0500	0.0470	94.0	80.0-120	

L1538188-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1538188-01 01/24/23 19:04 • (MS) R3884013-4 01/24/23 19:11 • (MSD) R3884013-5 01/24/23 19:14

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD	RPD Limits %
Uranium	0.0500	0.0103	0.0599	0.0584	1	75.0-125	99.2	96.1	2.59	20



GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

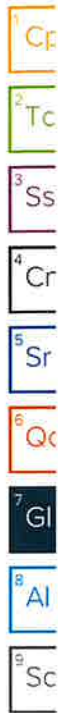
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
T8	Sample(s) received past/too close to holding time expiration.



ACCREDITATIONS & LOCATIONS

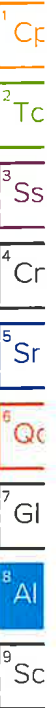
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-05-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



Company Name/Address: **Energy Fuels Resources**
 3549 South Cheryl Drive
 Flagstaff, AZ 86005

Report to: **Kathy Weinel**
 Email To: **KWeinel@energyfuels.com**

Billing Information:
 Accounts Payable
 3549 South Cheryl Drive
 Suite 600
 Lakewood, CO 80228

Chain of Custody Page *1* of *1*

Project Description: **ENEFUELCO**

City/State Collected: **MT**

Lab Project # **ENEFUELCO**

Site/Facility ID # **P.O. #**

Quote # **00122018**

Date Results Needed **09/22/2018**

Rush? (Lab MUST Be Notified)
 Same Day Five Day
 Next Day 5 Day (Rad Only)
 Two Day 10 Day (Rad Only)
 Three Day

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs
MW01-09182022		GW		9/18/22	1651	6
MW02-09172022		GW		9/17/22	1635	6
MW03-09192022		GW		9/19/22	1627	6
MW04		GW				6
MW65-09192022		GW		9/19/22	1627	6
Some As Above		NPW				4
		NPW				4
		NPW				4
		NPW				4
		NPW				4

Analysts / Container / Preservation	Pres Chk
ALKA 125mHDP-E-NOPres	
FLUORIDE/SULFATE 125mHDP-E-NOPres	
GROSS ALPHA 500mHDP-E-Add HNO3	
Metals (field filter) 250mHDP-E-HNO3	
NO2NO3 250mHDP-E-H2SO4	
PH 125mHDP-E-NOPres	
RA-226 TL-HDP-E-Add HNO3	
RA-228 TL-HDP-E-Add HNO3	
TDS 1L-HDP-E-NOPres	

Remarks: Dissolved Metals are field-filtered. **Rads Not on ICS**

Temp _____ Flow _____ Other _____

Sample Receipt Checklist:
 COC Seal Present/Intact: Y
 COC Signed/Accurate: Y
 Bottles arrive intact: Y
 Correct bottles used: Y
 Sufficient volume sent: Y
 If Applicable
 VOA Zero Headspace: Y
 Preservation Correct/Checked: Y
 RAD Screen <0.5 mB/h: Y

Relinquished by: (Signature) *[Signature]* Date: **9/29/22** Time: **1430**

Relinquished by: (Signature) *[Signature]* Date: _____ Time: _____

Relinquished by: (Signature) *[Signature]* Date: _____ Time: _____

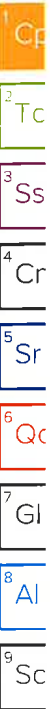
Tracking # _____
 Received by: (Signature) _____ Date: _____ Time: _____
 Received by: (Signature) _____ Date: _____ Time: _____
 Received for lab by: (Signature) *[Signature]* Date: **9-21-22** Time: **0950**

Condition: **NCE/OK**



ANALYTICAL REPORT

November 15, 2022



Energy Fuels Resources

Sample Delivery Group: L1539720
Samples Received: 09/26/2022
Project Number:
Description: GW SAMPLING

Report To: Kathy Weinel
225 Union Blvd
Suite 600
Lakewood, CO 80228

Entire Report Reviewed By:

Donna Eidson
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

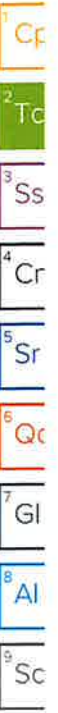


Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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MW03_09192022 L1539720-03	7
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SAMPLE SUMMARY

	Collected by	Collected date/time	Received date/time
MW01_09182022 L1539720-01 Non-Potable Water	Matt Germansen	09/18/22 16:51	09/26/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 900	WG1946715	1	10/25/22 10:50	11/02/22 14:25	SWM	Mt. Juliet, TN
Radiochemistry by Method 903.0/9315	WG1941453	1	10/12/22 15:44	10/20/22 15:00	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG1945570	1	10/20/22 14:55	10/26/22 15:30	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG1946715	1	10/25/22 10:50	11/02/22 14:25	SWM	Mt. Juliet, TN
Radiochemistry by Method D3972 U-02	WG1944021	1	10/19/22 18:09	10/22/22 00:51	RGT	Mt. Juliet, TN

	Collected by	Collected date/time	Received date/time
MW02_09172022 L1539720-02 Non-Potable Water	Matt Germansen	09/17/22 16:35	09/26/22 10:00

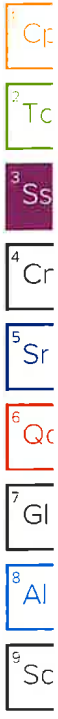
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 900	WG1946715	1	10/25/22 10:50	11/02/22 14:25	SWM	Mt. Juliet, TN
Radiochemistry by Method 903.0/9315	WG1941453	1	10/12/22 15:44	10/21/22 16:00	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG1945570	1	10/20/22 14:55	10/26/22 15:30	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG1946715	1	10/25/22 10:50	11/02/22 14:25	SWM	Mt. Juliet, TN
Radiochemistry by Method D3972 U-02	WG1944021	1	10/19/22 18:09	10/22/22 00:51	RGT	Mt. Juliet, TN

	Collected by	Collected date/time	Received date/time
MW03_09192022 L1539720-03 Non-Potable Water	Matt Germansen	09/19/22 16:27	09/26/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 900	WG1946715	1	10/25/22 10:50	11/02/22 14:25	SWM	Mt. Juliet, TN
Radiochemistry by Method 903.0/9315	WG1941453	1	10/12/22 15:44	10/21/22 16:00	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG1945570	1	10/20/22 14:55	10/26/22 15:30	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG1946715	1	10/25/22 10:50	11/02/22 14:25	SWM	Mt. Juliet, TN
Radiochemistry by Method D3972 U-02	WG1944021	1	10/19/22 18:09	10/22/22 00:51	RGT	Mt. Juliet, TN

	Collected by	Collected date/time	Received date/time
MW65_09192022 L1539720-04 Non-Potable Water	Matt Germansen	09/19/22 16:27	09/26/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 900	WG1946715	1	10/25/22 10:50	11/02/22 14:25	SWM	Mt. Juliet, TN
Radiochemistry by Method 903.0/9315	WG1941453	1	10/12/22 15:44	10/21/22 17:00	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG1945570	1	10/20/22 14:55	10/26/22 15:30	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG1946715	1	10/25/22 10:50	11/02/22 14:25	SWM	Mt. Juliet, TN
Radiochemistry by Method D3972 U-02	WG1944021	1	10/19/22 18:09	10/22/22 00:51	RGT	Mt. Juliet, TN



CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Donna Eidson
Project Manager



Radiochemistry by Method 900

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
GROSS ALPHA	26.2		4.17	2.38	11/02/2022 14:25	WG1946715

Radiochemistry by Method 903.0/9315

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Radium-226	2.81		0.560	0.271	10/20/2022 15:00	WG1941453
(T) Barium	99.0			30.0-143	10/20/2022 15:00	WG1941453

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.0118	<u>U</u>	0.245	0.451	10/26/2022 15:30	WG1945570
(T) Barium	94.8			30.0-143	10/26/2022 15:30	WG1945570
(T) Yttrium	89.9			30.0-136	10/26/2022 15:30	WG1945570

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Adjusted Gross Alpha	12.8				11/02/2022 14:25	WG1946715

Radiochemistry by Method D3972 U-02

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
URANIUM-234	9.31		0.829	0.358	10/22/2022 00:51	WG1944021
URANIUM-235	0.495		0.218	0.216	10/22/2022 00:51	WG1944021
URANIUM-238	4.05		0.558	0.311	10/22/2022 00:51	WG1944021
(T) URANIUM-232	71.8			30.0-110	10/22/2022 00:51	WG1944021



Radiochemistry by Method 900

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
GROSS ALPHA	13.2		2.40	1.59	11/02/2022 14:25	WG1946715

Radiochemistry by Method 903.0/9315

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Radium-226	2.07		0.491	0.239	10/21/2022 16:00	WG1941453
(T) Barium	89.2			30.0-143	10/21/2022 16:00	WG1941453

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	0.000	<u>U</u>	0.221	0.409	10/26/2022 15:30	WG1945570
(T) Barium	91.3			30.0-143	10/26/2022 15:30	WG1945570
(T) Yttrium	105			30.0-136	10/26/2022 15:30	WG1945570

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Adjusted Gross Alpha	7.53				11/02/2022 14:25	WG1946715

Radiochemistry by Method D3972 U-02

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
URANIUM-234	4.14		0.568	0.378	10/22/2022 00:51	WG1944021
URANIUM-235	0.622		0.229	0.205	10/22/2022 00:51	WG1944021
URANIUM-238	1.51		0.324	0.160	10/22/2022 00:51	WG1944021
(T) URANIUM-232	77.9			30.0-110	10/22/2022 00:51	WG1944021



Radiochemistry by Method 900

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
GROSS ALPHA	7.47		3.55	3.88	11/02/2022 14:25	WG1946715

Radiochemistry by Method 903.0/9315

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Radium-226	1.66		0.422	0.256	10/21/2022 16:00	WG1941453
(T) Barium	98.3			30.0-143	10/21/2022 16:00	WG1941453

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.531		0.201	0.353	10/26/2022 15:30	WG1945570
(T) Barium	88.9			30.0-143	10/26/2022 15:30	WG1945570
(T) Yttrium	101			30.0-136	10/26/2022 15:30	WG1945570

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Adjusted Gross Alpha	2.08				11/02/2022 14:25	WG1946715

Radiochemistry by Method D3972 U-02

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
URANIUM-234	2.96		0.504	0.364	10/22/2022 00:51	WG1944021
URANIUM-235	0.128	J	0.127	0.172	10/22/2022 00:51	WG1944021
URANIUM-238	2.43		0.422	0.172	10/22/2022 00:51	WG1944021
(T) URANIUM-232	73.0			30.0-110	10/22/2022 00:51	WG1944021



Radiochemistry by Method 900

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
GROSS ALPHA	6.66		3.48	3.97	11/02/2022 14:25	WG1946715

Radiochemistry by Method 903.0/9315

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Radium-226	1.46		0.392	0.235	10/21/2022 17:00	WG1941453
(T) Barium	108			30.0-143	10/21/2022 17:00	WG1941453

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	-0.0699	<u>U</u>	0.221	0.413	10/26/2022 15:30	WG1945570
(T) Barium	92.6			30.0-143	10/26/2022 15:30	WG1945570
(T) Yttrium	90.9			30.0-136	10/26/2022 15:30	WG1945570

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Adjusted Gross Alpha	2.47				11/02/2022 14:25	WG1946715

Radiochemistry by Method D3972 U-02

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
URANIUM-234	2.43		0.448	0.382	10/22/2022 00:51	WG1944021
URANIUM-235	0.275		0.164	0.190	10/22/2022 00:51	WG1944021
URANIUM-238	1.77		0.335	0.148	10/22/2022 00:51	WG1944021
(T) URANIUM-232	69.5			30.0-110	10/22/2022 00:51	WG1944021

1 Cp

2 Tc

3 Ss

4 Cr

5 Sr

6 Qc

7 Gf

8 Al

9 Sc

Method Blank (MB)

(MB) R3856359-1 11/01/22 21:09

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty +/-	MB MDA pCi/l
GROSS ALPHA	0.154	J	0.271	0.414

L1539458-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1539458-05 11/02/22 10:55 • (DUP) R3856359-5 11/02/22 10:54

Analyte	Original Result pCi/l	Original Uncertainty +/-	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty +/-	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
GROSS ALPHA	3.87	1.63	1.71	2.31	1.43	1.71	1	50.5	0.719		20	3

Laboratory Control Sample (LCS)

(LCS) R3856359-2 11/01/22 21:09

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
GROSS ALPHA	15.0	13.4	89.5	80.0-120	

L1538854-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1538854-05 11/02/22 10:55 • (MS) R3856359-3 11/02/22 10:54 • (MSD) R3856359-4 11/02/22 10:54

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	RPD %	MS RER	RPD Limits %
GROSS ALPHA	15.0	1.31	15.2	15.1	92.7	92.2	1	70.0-130		0.461		20

Method Blank (MB)

(MB) R3851082-1 10/20/22 14:00

Analyte	MB Result pCi/l	MB Qualifier +/-	MB Uncertainty pCi/l	MB MDA pCi/l
Radium-226	0.0414	0.0811	0.161	
(f) Barium	95.3	95.3		

L1540499-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1540499-01 10/20/22 15:00 • (DUP) R3851082-5 10/20/22 15:00

Analyte	Original Result pCi/l	Original Uncertainty +/-	DUP Result pCi/l	DUP Uncertainty +/-	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-226	12.7	1.19	0.240	14.0	0.240	1	10.1	0.638		20	3
(f) Barium	93.9		94.7	94.7							

Laboratory Control Sample (LCS)

(LCS) R3851082-2 10/20/22 14:00

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.01	5.59	112	80.0-120	
(f) Barium		93.3			

L1539720-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1539720-01 10/20/22 15:00 • (MS) R3851082-3 10/20/22 14:00 • (MSD) R3851082-4 10/20/22 14:00

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	RPD %	MS RER	RPD Limits %
Radium-226	20.0	2.81	23.6	24.0	104	106	1	75.0-125		1.60		20
(f) Barium		99.0	97.4	99.2	97.4	99.2						

Method Blank (MB)

(MB) R3853968-1 10/26/22 15:30

Analyte	MB Result pCi/l	MB Qualifier + / -	MB Uncertainty pCi/l	MB MDA pCi/l
Radium-228	-0.172	<u>U</u>	0.177	0.332
(T) Barium	91.6			
(T) Yttrium	92.7			

L1539720-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1539720-04 10/26/22 15:30 • (DUP) R3853968-5 10/26/22 15:30

Analyte	Original Result pCi/l	Original Uncertainty + / -	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	-0.0699	0.221	0.413	0.301	0.413	1	200	0.947	<u>J</u>	20	3
(T) Barium	92.6		107	107							
(T) Yttrium	90.9		100	100							

Laboratory Control Sample (LCS)

(LCS) R3853968-2 10/26/22 15:30

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	4.12	82.3	80.0-120	
(T) Barium			90.5		
(T) Yttrium			100		

L1539720-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1539720-02 10/26/22 15:30 • (MS) R3853968-3 10/26/22 15:30 • (MSD) R3853968-4 10/26/22 15:30

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	10.0	0.000	8.18	8.92	81.8	89.2	1	70.0-130		8.67		20
(T) Barium		91.3			100	95.0						
(T) Yttrium		105			109	97.5						

Method Blank (MB)

(MB) R3853190-1 10/22/22 00:51

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / -	MB MDA pCi/l
URANIUM-234	0.0753		0.0434	0.0502
URANIUM-235	0.0122	<u>U</u>	0.0239	0.0392
URANIUM-238	0.0355	<u>J</u>	0.0301	0.0392
(T) URANIUM-232	78.1		78.1	

L1544750-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1544750-02 10/22/22 00:52 • (DUP) R3853190-5 10/22/22 00:51

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
URANIUM-234	1050	20.3	1.30	980	19.2	1.30	1	7.02	2.55		20	3
URANIUM-235	32.9	3.60	0.659	37.1	3.74	0.659	1	12.1	0.813		20	3
URANIUM-238	261	10.1	0.738	224	9.20	0.738	1	15.2	2.71		20	3
(T) URANIUM-232	53.6			59.3	59.3							

Laboratory Control Sample (LCS)

(LCS) R3853190-2 10/22/22 00:51

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
URANIUM-234	10.1	9.85	97.5	80.0-120	
URANIUM-238	9.80	10.7	109	80.0-120	
(T) URANIUM-232			82.5		

L1538854-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1538854-07 10/22/22 00:51 • (MS) R3853190-3 10/22/22 00:51 • (MSD) R3853190-4 10/22/22 00:51

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
URANIUM-234	40.2	1.87	38.5	45.1	91.0	108	1	75.0-125			15.9	20	20
URANIUM-238	39.2	1.97	42.7	46.2	104	113	1	75.0-125			7.92	20	20
(T) URANIUM-232		71.4			76.6	66.7							

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDA	Minimum Detectable Activity.
Rec.	Recovery.
RER	Replicate Error Ratio.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(T)	Tracer - A radioisotope of known concentration added to a solution of chemically equivalent radioisotopes at a known concentration to assist in monitoring the yield of the chemical separation.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.
Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Below Detectable Limits: Indicates that the analyte was not detected.



ACCREDITATIONS & LOCATIONS

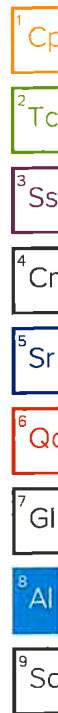
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



Energy Fuels Resources
 3549 South Cheryl Drive
 Flagstaff, AZ 86005

Report to:
Kathy Weinel

Project Description:

City/State Collected:

Client Project #

Site/Facility ID #

Comp/Grab Matrix * Depth

Sample ID

Matrix * Depth

Date

Time

No. of Cntrs

Pres Chk

Analysis / Container / Preservation

Chain of Custody

Page ___ of ___

Energy Fuels Resources
 PEOPLE ADVANCING SCIENCE

MT JULIET, TN

17065 Leppner Rd Mount Juliet, TN 37122
 Submitting a sample via this chain of custody
 constitutes acknowledgment and acceptance of the
 Pace Terms and Conditions found at
 https://info.pacelabs.com/hibb/pps-standard
 Terms.pdf

SDG # **61535720**

F166

Acctnum: ENEFUELCO

Template: T215494

Prelogin: P948252

PM: 732 - Donna Eidson

PB: 3022 MW

Shipped Via: FedEx Ground

Remarks

Sample # (lab only)

Sample ID	Matrix *	Depth	Date	Time	No. of Cntrs	Pres Chk	Analysis / Container / Preservation	Chain of Custody
MW01-09182022	GW		9/18/22	1651	6		FLUORIDE,SULFATE 125mHDPE-NOPres	RA-228 1L-HDPE-Add-HNO3
MW02-09172022	GW		9/17/22	1635	6		Metals(field filter) 250mHDPE-HNO3	RA-226 1L-HDPE-Add HNO3
MW03-09192022	GW		9/19/22	1627	6		PH 125mHDPE-NOPres	PH 125mHDPE-NOPres
RA01	GW				6		GROSS ALPHA 500mHDPE-Add HNO3	
MW65-09192022	GW		9/19/22	1627	6		NO2NO3 250mHDPE-H2SO4	
Some As Above	NPW				4			
	NPW				4			
	NPW				4			
	NPW				4			
	NPW				4			
	NPW				4			

Billing Information:
Accounts Payable
 3549 South Cheryl Drive
 Suite 600
 Lakewood, CO 80228
 Email To: KWeinel@energyfuels.com

City/State Collected: Please Circle: PT MT CT ET

Client Project # ENEFUELCO

Site/Facility ID # P.O. #

Quote # 00122018
 Date Results Needed

Rush? (Lab MUST Be Notified)
 ___ Same Day ___ Five Day
 ___ Next Day ___ 5 Day (Rad Only)
 ___ Two Day ___ 10 Day (Rad Only)
 ___ Three Day

Immediately Packed on Ice N ___ Y ___

Sample ID

Comp/Grab Matrix * Depth

Date

Time

No. of Cntrs

Pres Chk

Analysis / Container / Preservation

Chain of Custody

Page ___ of ___

Matrix: SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - Waste/Water
 DW - Drinking Water
 OT - Other

Relinquished by: (Signature)

Relinquished by: (Signature)

Relinquished by: (Signature)

Temp _____ Flow _____ Other _____

TempMSAZC 5.91059
 Date: 9/20/22
 Time: 1439

TempMSAZC 14
 Date: 9/20/22
 Time: 1000

Received by: (Signature)

Received by: (Signature)

Received for lab by: (Signature)

Tracking #

Received by: (Signature)

Received by: (Signature)

Received for lab by: (Signature)

Temp _____ Flow _____ Other _____

TempMSAZC 5.91059
 Date: 9/20/22
 Time: 1439

TempMSAZC 14
 Date: 9/20/22
 Time: 1000

Received by: (Signature)

Received by: (Signature)

Received for lab by: (Signature)

Remarks: Dissolved Metals are field-filtered.
 GW ~~Sampling~~ Sampling
 Rads Not on ICSH

Sample returned via: UPS FedEx Courier

Date: 9/20/22 Time: 1439

Date: Time:

Date: Time:

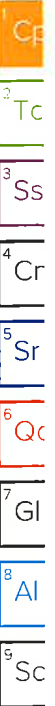
Date: Time:

Sample Receipt Checklist
 COC Seal Present/Intact: NP
 COC Signed/Accurate: NP
 Bottles arrive intact: NP
 Correct bottles used: NP
 Sufficient volume sent: NP
 ILL Applicable: NP
 VOA Zero Headspace: NP
 Preservation Correct/Checked: NP
 RAD Screen <0.5 mB/hr: NP

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK



Energy Fuels Resources

Sample Delivery Group: L1540494
Samples Received: 09/28/2022
Project Number:
Description: GW SAMPLING

Report To: Kathy Weinel
225 Union Blvd
Suite 600
Lakewood, CO 80228

Entire Report Reviewed By:



Donna Eidson
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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1	Cp
2	Tc
3	Ss
4	Cn
5	Sr
6	Qc
7	Gl
8	Al
9	Sc

SAMPLE SUMMARY

RW01_09272022 L1540494-01 GW

Collected by: _____ Collected date/time: 09/27/22 12:18 Received date/time: 09/28/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1936483	1	10/04/22 12:01	10/04/22 13:45	AEC	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1935879	1	10/03/22 07:18	10/03/22 07:18	ARD	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1933899	1	10/01/22 20:27	10/01/22 20:27	CAT	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG1937293	1	10/05/22 16:00	10/05/22 16:00	SGB	Mt. Juliet, TN
Wet Chemistry by Method 9050A	WG1934959	1	10/05/22 08:30	10/05/22 08:30	NTG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1934083	1	09/29/22 06:41	09/29/22 06:41	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG1936410	1	10/04/22 11:03	10/05/22 09:04	SRT	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1936085	1	10/04/22 19:23	10/05/22 09:44	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1944063	1	10/18/22 02:17	10/18/22 23:20	LD	Mt. Juliet, TN

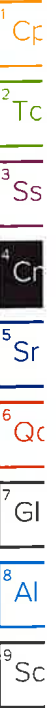


CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Donna Eidson
Project Manager



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	253		10.0	1	10/04/2022 13:45	WG1936483

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Alkalinity,Carbonate	U		8.45	20.0	1	10/03/2022 07:18	WG1935879

Sample Narrative:

L1540494-01 WG1935879: Endpoint pH 4.5

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.0923	J	0.0500	0.100	1	10/01/2022 20:27	WG1933899

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	su			date / time	
pH	8.09	T8	1	10/05/2022 16:00	WG1937293

Sample Narrative:

L1540494-01 WG1937293: 8.09 at 18.6C

Wet Chemistry by Method 9050A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	umhos/cm		umhos/cm		date / time	
Specific Conductance	471		10.0	1	10/05/2022 08:30	WG1934959

Sample Narrative:

L1540494-01 WG1934959: at 25C

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Fluoride	0.290		0.0640	0.150	1	09/29/2022 06:41	WG1934083
Sulfate	20.0		0.594	5.00	1	09/29/2022 06:41	WG1934083

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury,Dissolved	U		0.000100	0.000200	1	10/05/2022 09:04	WG1936410

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Antimony,Dissolved	U		0.00430	0.0100	1	10/05/2022 09:44	WG1936085
Arsenic,Dissolved	U		0.00440	0.0100	1	10/05/2022 09:44	WG1936085
Barium,Dissolved	0.0818		0.000736	0.00500	1	10/05/2022 09:44	WG1936085
Beryllium,Dissolved	U		0.000330	0.00200	1	10/05/2022 09:44	WG1936085
Cadmium,Dissolved	U		0.000479	0.00200	1	10/05/2022 09:44	WG1936085
Calcium,Dissolved	39.8		0.0793	1.00	1	10/05/2022 09:44	WG1936085
Chromium,Dissolved	U		0.00140	0.0100	1	10/05/2022 09:44	WG1936085



Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Lead,Dissolved	U		0.00299	0.00600	1	10/05/2022 09:44	WG1936085
Magnesium,Dissolved	28.5		0.0853	1.00	1	10/05/2022 09:44	WG1936085
Nickel,Dissolved	0.00796	J	0.00161	0.0100	1	10/05/2022 09:44	WG1936085
Potassium,Dissolved	2.35		0.261	2.00	1	10/05/2022 09:44	WG1936085
Selenium,Dissolved	U		0.00735	0.0100	1	10/05/2022 09:44	WG1936085
Sodium,Dissolved	7.12		0.504	3.00	1	10/05/2022 09:44	WG1936085
Thallium,Dissolved	0.00823	B J	0.00431	0.0100	1	10/05/2022 09:44	WG1936085

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Uranium,Dissolved	0.0147		0.0000789	0.00100	1	10/18/2022 23:20	WG1944063

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cr
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Method Blank (MB)

(MB) R3846247-1 10/04/22 13:45

Analyte	MB Result mg/l	<u>MB Qualifier</u> mg/l	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U	10.0	10.0	10.0

L1540758-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1540758-05 10/04/22 13:45 • (DUP) R3846247-3 10/04/22 13:45

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u> %	DUP RPD Limits %
Dissolved Solids	3470	4780	1	31.8	J3	5

L1540765-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1540765-01 10/04/22 13:45 • (DUP) R3846247-4 10/04/22 13:45

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u> %	DUP RPD Limits %
Dissolved Solids	814	882	1	8.02	J3	5

Laboratory Control Sample (LCS)

(LCS) R3846247-2 10/04/22 13:45

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u> %
Dissolved Solids	8800	8520	96.8	77.3-123	



Method Blank (MB)

(MB) R3843856-2 10/03/22 06:12

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Alkalinity,Carbonate	U	8.45	20.0	20.0

Sample Narrative:

BLANK: Endpoint pH 4.5

L1540428-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1540428-02 10/03/22 06:28 • (DUP) R3843856-4 10/03/22 06:34

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity,Carbonate	U	U	1	0.000		20

Sample Narrative:

OS: Endpoint pH 4.5 headspace
DUP: Endpoint pH 4.5

L1540793-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1540793-01 10/03/22 08:13 • (DUP) R3843856-6 10/03/22 08:17

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity,Carbonate	U	U	1	0.000		20

Sample Narrative:

OS: Endpoint pH 4.5
DUP: Endpoint pH 4.5



WG19333899

Wet Chemistry by Method 353.2

QUALITY CONTROL SUMMARY

L1540494-01

Method Blank (MB)

(MB) R3843723-1 10/01/22 20:01

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Nitrate-Nitrite	U	0.0500	0.100	

L1539666-16 Original Sample (OS) • Duplicate (DUP)

(OS) L1539666-16 10/01/22 20:09 • (DUP) R3843723-3 10/01/22 20:10

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate-Nitrite	0.152	0.146	1	4.03		20

L1540494-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1540494-01 10/01/22 20:27 • (DUP) R3843723-6 10/01/22 20:28

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate-Nitrite	0.0923	0.0975	1	5.48	J	20

Laboratory Control Sample (LCS)

(LCS) R3843723-2 10/01/22 20:03

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Nitrate-Nitrite	2.50	2.52	101	90.0-110	

L1539666-16 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1539666-16 10/01/22 20:09 • (MS) R3843723-4 10/01/22 20:12 • (MSD) R3843723-5 10/01/22 20:17

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Nitrate-Nitrite	2.50	0.152	2.57	2.60	96.7	97.9	1	90.0-110			1.16	20

L1540494-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1540494-01 10/01/22 20:27 • (MS) R3843723-8 10/01/22 21:05

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Nitrate-Nitrite	2.50	0.0923	2.49	95.9	1	90.0-110	

L1540149-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1540149-03 10/05/22 16:00 • (DUP) R3845111-3 10/05/22 16:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
pH	8.84	8.85	1	0.113		1

Sample Narrative:

OS: 8.84 at 18.7C
DUP: 8.85 at 18.4C

L1540682-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1540682-03 10/05/22 16:00 • (DUP) R3845111-4 10/05/22 16:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
pH	7.92	7.95	1	0.378		1

Sample Narrative:

OS: 7.92 at 18.4C
DUP: 7.95 at 18.3C

Laboratory Control Sample (LCS)

(LCS) R3845111-1 10/05/22 16:00

Analyte	Spike Amount	LCS Result	LCS Rec. %	Rec. Limits %	LCS Qualifier
pH	10.0	9.91	99.1	99.0-101	

Sample Narrative:

LCS: 9.91 at 18.7C



WG1934959

Wet Chemistry by Method 9050A

QUALITY CONTROL SUMMARY

L1540494-01

Method Blank (MB)

(MB) R3844746-1 10/05/22 08:30

Analyte	MB Result umhos/cm	<u>MB Qualifier</u>	MB MDL umhos/cm	MB RDL umhos/cm
Specific Conductance	U	10.0	10.0	10.0

Sample Narrative:

BLANK: at 25C

L1540668-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1540668-01 10/05/22 08:30 • (DUP) R3844746-3 10/05/22 08:30

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits %
Specific Conductance	31000	30800	1	0.647		20

Sample Narrative:

OS: at 25C

DUP: at 25C

L1541150-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1541150-01 10/05/22 08:30 • (DUP) R3844746-4 10/05/22 08:30

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits %
Specific Conductance	ND	ND	1	0.000		20

Sample Narrative:

OS: at 25C

DUP: at 25C

Laboratory Control Sample (LCS)

(LCS) R3844746-2 10/05/22 08:30

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Specific Conductance	1120	1100	98.5	85.0-115	

Sample Narrative:

LCS: at 25C

ACCOUNT:

PROJECT:

SDG:

DATE/TIME:

PAGE:

WG1934083

Wet Chemistry by Method 9056A

QUALITY CONTROL SUMMARY

L1540494-01

Method Blank (MB)

(MB) R3842815-1 09/28/22 22:10

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Fluoride	U	0.0640	0.150	
Sulfate	U	0.594	5.00	

L1540428-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1540428-07 09/29/22 02:27 • (DUP) R3842815-3 09/29/22 02:43

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Fluoride	0.908	0.906	1	0.232		15
Sulfate	136	135	1	0.165		15

L1540613-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1540613-04 09/29/22 08:49 • (DUP) R3842815-5 09/29/22 09:05

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Fluoride	1.98	1.97	1	0.567		15
Sulfate	29.1	29.1	1	0.0960		15

Laboratory Control Sample (LCS)

(LCS) R3842815-2 09/28/22 22:25

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluoride	8.00	8.41	105	80.0-120	
Sulfate	40.0	41.8	105	80.0-120	

L1540428-07 Original Sample (OS) • Matrix Spike (MS)

(OS) L1540428-07 09/29/22 02:27 • (MS) R3842815-4 09/29/22 02:58

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Fluoride	5.00	0.908	6.36	109	1	80.0-120	
Sulfate	50.0	136	181	90.3	1	80.0-120	

WG1934083

Wet Chemistry by Method 9056A

QUALITY CONTROL SUMMARY

L1540494-01

L1540613-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1540613-04 09/29/22 08:49 • (MS) R3842815-6 09/29/22 09:20 • (MSD) R3842815-7 09/29/22 09:36

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Fluoride	5.00	1.98	7.32	7.23	107	105	1	80.0-120			1.29	15
Sulfate	50.0	29.1	82.5	82.3	107	107	1	80.0-120			0.240	15

1 Cf

2 Tc

3 Ss

4 Cr

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

WG1936410

Mercury by Method 7470A

QUALITY CONTROL SUMMARY

L1540494-01

Method Blank (MB)

(MB) R3844839-1 10/05/22 09:00

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury, Dissolved	U	0.000100	0.000200	0.000200

Laboratory Control Sample (LCS)

(LCS) R3844839-2 10/05/22 09:02

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury, Dissolved	0.00300	0.00351	117	80.0-120	

L1540494-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1540494-01 10/05/22 09:04 • (MS) R3844839-3 10/05/22 09:06 • (MSD) R3844839-4 10/05/22 09:08

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	MSD Result mg/l	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury, Dissolved	0.00300	U	0.00374	125	0.00366	122	1	75.0-125			2.12	20

WG1936085

Metals (ICP) by Method 6010B

QUALITY CONTROL SUMMARY

L15.40.494-01

Method Blank (MB)

(MB) R3845027-1 10/05/22 08:50

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Antimony, Dissolved	U	0.00430	0.0100	0.0100
Arsenic, Dissolved	U	0.00440	0.0100	0.0100
Barium, Dissolved	U	0.000736	0.00500	0.00500
Beryllium, Dissolved	U	0.000330	0.00200	0.00200
Cadmium, Dissolved	U	0.000479	0.00200	0.00200
Calcium, Dissolved	U	0.0793	1.00	1.00
Chromium, Dissolved	U	0.00140	0.0100	0.0100
Lead, Dissolved	U	0.00299	0.00600	0.00600
Magnesium, Dissolved	U	0.0853	1.00	1.00
Nickel, Dissolved	U	0.00161	0.0100	0.0100
Potassium, Dissolved	U	0.261	2.00	2.00
Selenium, Dissolved	U	0.00735	0.0100	0.0100
Sodium, Dissolved	U	0.504	3.00	3.00
Thallium, Dissolved	0.00686	J	0.00431	0.0100

Laboratory Control Sample (LCS)

(LCS) R3845027-2 10/05/22 08:53

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Antimony, Dissolved	1.00	0.937	93.7	80.0-120	
Arsenic, Dissolved	1.00	0.935	93.5	80.0-120	
Barium, Dissolved	1.00	1.00	100	80.0-120	
Beryllium, Dissolved	1.00	0.990	99.0	80.0-120	
Cadmium, Dissolved	1.00	0.953	95.3	80.0-120	
Calcium, Dissolved	10.0	10.2	102	80.0-120	
Chromium, Dissolved	1.00	0.958	95.8	80.0-120	
Lead, Dissolved	1.00	0.947	94.7	80.0-120	
Magnesium, Dissolved	10.0	10.4	104	80.0-120	
Nickel, Dissolved	1.00	0.957	95.7	80.0-120	
Potassium, Dissolved	10.0	9.24	92.4	80.0-120	
Selenium, Dissolved	1.00	0.932	93.2	80.0-120	
Sodium, Dissolved	10.0	9.91	99.1	80.0-120	
Thallium, Dissolved	1.00	0.913	91.3	80.0-120	

WG1936085

Metals (ICP) by Method 6010B

QUALITY CONTROL SUMMARY

L1540494-01

L1540387-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1540387-01 10/05/22 08:56 • (MS) R3845027-4 10/05/22 09:01 • (MSD) R3845027-5 10/05/22 09:04

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Antimony, Dissolved	1.00	U	0.926	0.920	92.6	92.0	1	75.0-125			0.662	20
Arsenic, Dissolved	1.00	0.00474	0.934	0.923	93.4	92.3	1	75.0-125			1.15	20
Barium, Dissolved	1.00	0.0141	0.996	0.983	98.2	96.9	1	75.0-125			1.27	20
Beryllium, Dissolved	1.00	U	0.987	0.968	98.7	96.8	1	75.0-125			1.91	20
Cadmium, Dissolved	1.00	U	0.947	0.934	94.7	93.4	1	75.0-125			1.37	20
Calcium, Dissolved	10.0	27.6	36.9	36.7	93.4	91.1	1	75.0-125			0.632	20
Chromium, Dissolved	1.00	0.00226	0.950	0.931	94.7	92.9	1	75.0-125			1.99	20
Lead, Dissolved	1.00	U	0.937	0.928	93.7	92.8	1	75.0-125			0.946	20
Magnesium, Dissolved	10.0	11.4	21.7	21.3	103	98.9	1	75.0-125			1.66	20
Nickel, Dissolved	1.00	U	0.942	0.932	94.2	93.2	1	75.0-125			1.10	20
Potassium, Dissolved	10.0	3.23	12.5	12.4	92.2	91.2	1	75.0-125			0.798	20
Selenium, Dissolved	1.00	U	0.942	0.927	94.2	92.7	1	75.0-125			1.56	20
Sodium, Dissolved	10.0	25.5	34.1	34.3	85.9	88.0	1	75.0-125			0.630	20
Thallium, Dissolved	1.00	U	0.897	0.901	89.7	90.1	1	75.0-125			0.415	20

1 Cf

2 Tc

3 Ss

4 Cr

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

ACCOUNT:

PROJECT:

SDG:

DATE/TIME:

PAGE:

Method Blank (MB)

(MB) R385017-1 10/18/22 21:56

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Uranium, Dissolved	U	0.0000789	0.0000789	0.00100

Laboratory Control Sample (LCS)

(LCS) R385017-2 10/18/22 22:00

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits mg/l	LCS Qualifier
Uranium, Dissolved	0.0500	0.0524	105	80.0-120	

L1540735-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1540735-02 10/18/22 22:13 • (MS) R385017-4 10/18/22 22:20 • (MSD) R385017-5 10/18/22 22:23

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	Dilution	Rec. Limits %	MS Qualifier %	MSD Qualifier %	RPD %	RPD Limits %
Uranium, Dissolved	0.0500	0.00257	0.0538	0.0562	10	75.0-125	103	107	4.34	20

1	Cf
2	Tc
3	Ss
4	Cr
5	Sr
6	Qc
7	Gl
8	Al
9	Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
T8	Sample(s) received past/too close to holding time expiration.



ACCREDITATIONS & LOCATIONS

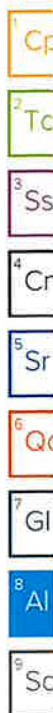
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-05-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



Company Name/Address: **Energy Fuels Resources**
 3549 South Cheryl Drive
 Flagstaff, AZ 86005

Billing Information:
Accounts Payable
 3549 South Cheryl Drive
 Suite 600
 Lakewood, CO 80228

Report to: **Kathy Weinel**
 Email To: KWeinel@energyfuels.com

City/State Collected: _____
 Client Project # _____
 Lab Project # **ENEFUELCO**
 Site/Facility ID # _____
 P.O. # _____

Collected by (signature): _____
 Rush? (Lab MUST Be Notified)
 ___ Same Day ___ Five Day
 ___ Next Day ___ 5 Day (Rad Only)
 ___ Two Day ___ 10 Day (Rad Only)
 ___ Three Day

Sample ID: **RW01_09272022**
 Comp/Grab: **G grab**
 Matrix: **GW**
 Depth: **N/A**
 Date: **9/27/22**
 Time: **1218**

Sample ID	Comp/Grab	Matrix	Depth	Date	Time	No. of Cntrs
		GW				6
		GW				6
		GW				6
		GW				6
		NPW				4
		NPW				4
		NPW				4
		NPW				4
		NPW				4

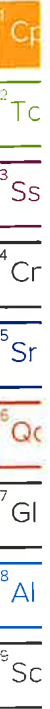
* Matrix: **GW** ~~GW~~ **Sampling**
 SS - Soil F - Filter
 GW - Groundwater B - Bioassay
 WW - Waste Water
 DW - Drinking Water
 OT - Other

Remarks: Dissolved Metals are field-filtered.

Samples returned via: UPS FedEx Courier

Relinquished by: (Signature) _____ Date: _____ Time: _____
 Relinquished by: (Signature) _____ Date: _____ Time: _____
 Relinquished by: (Signature) _____ Date: _____ Time: _____

Received by: (Signature) _____ Date: **9-28-22** Time: **10:00**
 Received by: (Signature) _____ Date: _____ Time: _____
 Received for Lab by: (Signature) **Kathy Weinel** Date: **9-28-22** Time: **10:00**



Energy Fuels Resources

Sample Delivery Group: L1540496
Samples Received: 09/28/2022
Project Number:
Description: GW Sampling

Report To: Kathy Weinel
225 Union Blvd
Suite 600
Lakewood, CO 80228

Entire Report Reviewed By:



Donna Eidson
Project Manager















Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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SAMPLE SUMMARY

RW01-09272022 L1540496-01 Non-Potable Water

Collected by

Collected date/time

Received date/time

09/27/22 12:18

09/28/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 900	WG1949162	1	10/26/22 14:05	11/02/22 14:26	SWM	Mt. Juliet, TN
Radiochemistry by Method 903.0/9315	WG1941453	1	10/12/22 15:44	10/21/22 18:01	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG1946251	1	10/21/22 16:05	10/31/22 14:56	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG1949162	1	10/26/22 14:05	11/03/22 17:51	RGT	Mt. Juliet, TN
Radiochemistry by Method D3972 U-02	WG1949475	1	11/01/22 18:41	11/03/22 17:51	RGT	Mt. Juliet, TN

¹ Cp

² Tc

³ Ss

⁴ Cr

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

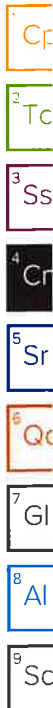
⁹ Sc

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Donna Eidson
Project Manager



Radiochemistry by Method 900

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
GROSS ALPHA	20.4		2.15	0.859	11/02/2022 14:26	WG1949162

Radiochemistry by Method 903.0/9315

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Radium-226	1.49		0.403	0.247	10/21/2022 18:01	WG1941453
(T) Barium	105			30.0-143	10/21/2022 18:01	WG1941453

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.588		0.221	0.385	10/31/2022 14:56	WG1946251
(T) Barium	114			30.0-143	10/31/2022 14:56	WG1946251
(T) Yttrium	99.3			30.0-136	10/31/2022 14:56	WG1946251

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Adjusted Gross Alpha	3.39				11/03/2022 17:51	WG1949162

Radiochemistry by Method D3972 U-02

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
URANIUM-234	10.5		0.822	0.428	11/03/2022 17:51	WG1949475
URANIUM-235	0.892		0.247	0.181	11/03/2022 17:51	WG1949475
URANIUM-238	6.52		0.624	0.211	11/03/2022 17:51	WG1949475
(T) URANIUM-232	72.8			30.0-110	11/03/2022 17:51	WG1949475



Method Blank (MB)

(MB) R3855681-1 10/31/22 20:24

Analyte	MB Result pCi/l	MB Uncertainty +/-	MB MDA pCi/l
GROSS ALPHA	-0.127	0.398	0.659

L1538854-20 Original Sample (OS) • Duplicate (DUP)

(OS) L1538854-20 11/01/22 13:59 • (DUP) R3855681-5 10/31/22 20:24

Analyte	Original Result pCi/l	Original Uncertainty +/-	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty +/-	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP RPD Limits %	DUP RER Limit
GROSS ALPHA	0.260	0.406	0.577	0.00731	0.404	0.577	1	189	0.442	20	3

Laboratory Control Sample (LCS)

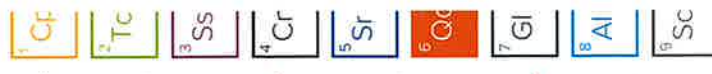
(LCS) R3855681-2 10/31/22 20:24

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
GROSS ALPHA	15.0	12.3	81.7	80.0-120	

L1542980-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1542980-06 11/01/22 13:59 • (MS) R3855681-3 10/31/22 20:24 • (MSD) R3855681-4 10/31/22 20:24

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	RPD %	MS RER	RPD Limits %
GROSS ALPHA	200	6.53	205	206	99.3	99.8	1	70.0-130		0.486		20



WG1941453

Radiochemistry by Method 903.0/9315

QUALITY CONTROL SUMMARY

L1540496-01

Method Blank (MB)

(MB) R3851082-1 10/20/22 14:00

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty +/-	MB MDA pCi/l
Radium-226	0.0414	<u>U</u>	0.0871	0.161
(7) Barium	95.3		95.3	

L1540499-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1540499-01 10/20/22 15:00 • (DUP) R3851082-5 10/20/22 15:00

Analyte	Original Result pCi/l	Original Uncertainty +/-	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty +/-	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-226	12.7	1.19	0.240	14.0	1.75	0.240	1	10.1	0.638		20	3
(7) Barium	93.9			94.7	94.7							

Laboratory Control Sample (LCS)

(LCS) R3851082-2 10/20/22 14:00

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.01	5.59	112	80.0-120	
(7) Barium			93.3		

L1539720-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1539720-01 10/20/22 15:00 • (MS) R3851082-3 10/20/22 14:00 • (MSD) R3851082-4 10/20/22 14:00

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-226	20.0	2.81	23.6	24.0	104	106	1	75.0-125			1.60		20
(7) Barium		99.0			97.4	99.2							

ACCOUNT:

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DATE/TIME:

PAGE:

WG1946251

Radiochemistry by Method 904/9320

QUALITY CONTROL SUMMARY

L1540496-01

Method Blank (MB)

(MB) R3856151-1 10/31/22 14:56

Analyte	MB Result pCi/l	MB Qualifier + / -	MB Uncertainty + / -	MB MDA pCi/l
Radium-228 (7) Barium	0.175	↓	0.163	0.292
(7) Yttrium	110		92.8	

L1548476-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1548476-01 10/31/22 14:56 • (DUP) R3856151-5 10/31/22 14:56

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228 (7) Barium	0.0657	0.242	0.441	0.423	0.293	0.441	1	146	0.941	↓	20	3
(7) Yttrium	109			114	114							
	94.5			99.1	99.1							

Laboratory Control Sample (LCS)

(LCS) R3856151-2 10/31/22 14:56

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228 (7) Barium	5.00	4.37	87.4	80.0-120	116
(7) Yttrium			102		102

L1542980-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1542980-06 10/31/22 14:56 • (MS) R3856151-3 10/31/22 14:56 • (MSD) R3856151-4 10/31/22 14:56

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	RPD %	MS RER	RPD Limits %
Radium-228 (7) Barium	10.0	0.894	9.70	7.95	88.1	70.5	1	70.0-130	19.9	19.9		20
(7) Yttrium		104		102	102	99.9						
		95.3		97.0	97.0	106						

ACCOUNT:

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Method Blank (MB)

(MB) R3857148-1 11/03/22 17:51

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty +/-	MB MDA pCi/l
URANIUM-234	0.0737		0.0515	0.0687
URANIUM-235	-0.00843	U	0.0146	0.0373
URANIUM-238	0.0418		0.0307	0.0373
(T) URANIUM-232	78.6		78.6	

L1540499-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1540499-01 11/03/22 17:51 • (DUP) R3857148-4 11/03/22 17:51

Analyte	Original Result pCi/l	Original Uncertainty +/-	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty +/-	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP RPD Limits %	DUP RER Limit
URANIUM-234	101	3.35	0.523	112	3.58	0.523	1	11.0	2.39	20	3
URANIUM-235	6.51	0.853	0.218	3.40	0.630	0.218	1	62.8	2.93	20	3
URANIUM-238	48.4	2.31	0.272	49.7	2.38	0.272	1	2.79	0.413	20	3
(T) URANIUM-232	71.2			68.2	68.2						

Laboratory Control Sample (LCS)

(LCS) R3857148-2 11/03/22 17:51

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
URANIUM-234	10.1	10.3	102	80.0-120	
URANIUM-238	9.80	11.1	113	80.0-120	
(T) URANIUM-232			80.8		

L1538854-23 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1538854-23 11/03/22 17:51 • (MS) R3857148-5 11/04/22 09:54 • (MSD) R3857148-3 11/03/22 17:51

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	RPD %	MS RER	RPD Limits %
URANIUM-234	40.2	0.207	45.5	37.9	113	93.9	1	75.0-125		18.2		20
URANIUM-238	39.2	0.00768	48.2	41.8	123	107	1	75.0-125		14.1		20
(T) URANIUM-232		83.6			67.3	78.4						

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDA	Minimum Detectable Activity.
Rec.	Recovery.
RER	Replicate Error Ratio.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(T)	Tracer - A radioisotope of known concentration added to a solution of chemically equivalent radioisotopes at a known concentration to assist in monitoring the yield of the chemical separation.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Below Detectable Limits: Indicates that the analyte was not detected.



ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-05-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



Company Name/Address: **Energy Fuels Resources**
 3549 South Cheryl Drive
 Flagstaff, AZ 86005

Billing Information:
Accounts Payable
 3549 South Cheryl Drive
 Suite 600
 Lakewood, CO 80228

Report to:
Kathy Weinel
 Email To: KWeinel@energyfuels.com

Project Description:
 City/State Collected:
 Please Circle: PT MT CT ET

Phone:
 Client Project #
 Lab Project # **ENEFUELCO**

Collected by (print):
 Site/Facility ID #
 P.O. #

Collected by (signature):
 Rush? (Lab MUST Be Notified)
 Same Day ___ Five Day ___
 Next Day ___ 5 Day (Rad Only) ___
 Two Day ___ 10 Day (Rad Only) ___
 Three Day ___

Quote # **00122018**
 Date Results Needed

Immediately Packed on Ice N ___ Y ___

Sample ID

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs
RW01_09272022	Grab	GW	N/A	9/27/22	1218	6
		GW				6
		GW				6
		GW				6
		GW				6
		NPW				4
		NPW				4
		NPW				4
		NPW				4
		NPW				4

Remarks: Dissolved Metals are field-filtered.
 GW ~~Sampling~~ Sampling

Samples returned via:
 UPS FedEx Courier

Tracking #

Received by: (Signature) _____ Time: _____
 Received by: (Signature) _____ Time: _____
 Received for lab by: (Signature) *Kathy Weinel* Time: 08:22

Analysis / Container / Preservative	PH	Temp	Flow	Other
ALKCA 125mHDPF-NOPres	X			
FLUORIDE,SULFATE 125mHDPF-NOPres	X			
GROSS ALPHA 500mHDPF-Add HNO3	X			
Metals(field filter) 250mHDPF-HNO3	X			
NO2NO3 250mHDPF-H2SO4	X			
PH 125mHDPF-NOPres	X			
RA-226 1L-HDPF-Add HNO3	X			
RA-228 1L-HDPF-Add HNO3	X			
TDS 1L-HDPF NOPres	X			

Chain of Custody Page ___ of ___

Pace
 PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at:
 https://info.pacelabs.com/Hubly/pax-standard-terms.pdf

COC # *U540496*
H058

Acctnum: ENEFUELCO
 Template: T215494
 Prelogin: P948252
 PM: 737 - Donna Eidson
 PB: *830122 MW*

Shipped Via: FedEX Ground
 Remarks: Sample # (lab only)

Sample Receipt Checklist	COC Seal Present/Intact:	Y/N
COC Signed/Accurate:		X
Bottles arrive intact:		X
Correct bottles used:		X
Sufficient volume sent:		X
IF Applicable		X
VOA Zero Headspace:		X
Preservation Correct/Checked:		X
RAD Screen <0.5 mR/hr:		X

Relinquished by: (Signature) _____ Date: _____

Relinquished by: (Signature) _____ Date: _____

Relinquished by: (Signature) _____ Date: _____

Condition: NCF / OK



ANALYTICAL REPORT

January 27, 2023

Revised Report

Energy Fuels Resources

Sample Delivery Group: L1559122

Samples Received: 11/17/2022

Project Number:

Description:

Report To: Kathy Weinel
225 Union Blvd
Suite 600
Lakewood, CO 80228



Entire Report Reviewed By:

Donna Eidson
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

ACCOUNT:

PROJECT:

SDG:

DATE/TIME:

PAGE:

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SAMPLE SUMMARY

MW02_11122022 L1559122-01 GW

Collected by: MG / MF
 Collected date/time: 11/12/22 12:44
 Received date/time: 11/17/22 11:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1962366	1	11/19/22 09:08	11/19/22 09:22	AS	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1964876	1	11/26/22 08:18	11/26/22 08:18	ARD	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1962999	1	11/29/22 15:07	11/29/22 15:07	JCS	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG1965103	1	11/25/22 16:08	11/25/22 16:08	KAD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1971206	1	12/08/22 20:48	12/08/22 20:48	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG1963513	1	11/27/22 23:06	11/28/22 17:57	SRT	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1964628	1	12/01/22 09:16	12/05/22 09:16	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1985271	1	01/10/23 13:47	01/10/23 15:48	JPD	Mt. Juliet, TN

MW03_11122022 L1559122-02 GW

Collected by: MG / MF
 Collected date/time: 11/12/22 15:40
 Received date/time: 11/17/22 11:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1962366	1	11/19/22 09:08	11/19/22 09:22	AS	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1964876	1	11/26/22 08:24	11/26/22 08:24	ARD	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1962999	1	11/29/22 15:09	11/29/22 15:09	JCS	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG1965103	1	11/25/22 16:08	11/25/22 16:08	KAD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1971206	1	12/08/22 21:06	12/08/22 21:06	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1971206	5	12/08/22 21:24	12/08/22 21:24	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG1963513	1	11/27/22 23:06	11/28/22 18:04	SRT	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1964628	1	12/01/22 09:16	12/05/22 09:27	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1985271	1	01/10/23 13:47	01/10/23 15:52	JPD	Mt. Juliet, TN

MW01_11122022 L1559122-03 GW

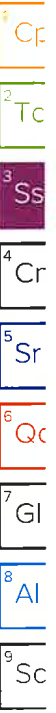
Collected by: MG / MF
 Collected date/time: 11/12/22 14:20
 Received date/time: 11/17/22 11:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1962366	1	11/19/22 09:08	11/19/22 09:22	AS	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1964876	1	11/26/22 08:30	11/26/22 08:30	ARD	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1962999	1	11/29/22 15:10	11/29/22 15:10	JCS	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG1965103	1	11/25/22 16:08	11/25/22 16:08	KAD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1971206	1	12/08/22 21:42	12/08/22 21:42	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1973077	5	12/12/22 18:04	12/12/22 18:04	LBR	Mt. Juliet, TN
Mercury by Method 7470A	WG1963513	1	11/27/22 23:06	11/28/22 18:06	SRT	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1964628	1	12/01/22 09:16	12/05/22 09:29	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1985271	1	01/10/23 13:47	01/10/23 15:55	JPD	Mt. Juliet, TN

MW02_11122022 L1559122-04 Non-Potable Water

Collected by: MG / MF
 Collected date/time: 11/12/22 12:44
 Received date/time: 11/17/22 11:00

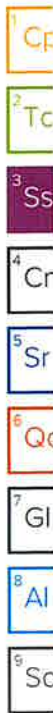
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 900	WG1968143	1	12/09/22 13:47	12/14/22 11:10	SWM	Mt. Juliet, TN
Radiochemistry by Method 903.0/9315	WG1961194	1	12/09/22 11:12	12/15/22 14:05	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG1969805	1	12/06/22 15:49	12/28/22 15:18	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG1968143	1	12/09/22 13:47	12/14/22 11:10	RRE	Mt. Juliet, TN
Radiochemistry by Method D3972 U-02	WG1967592	1	12/06/22 17:00	12/08/22 19:08	RGT	Mt. Juliet, TN



SAMPLE SUMMARY

				Collected by	Collected date/time	Received date/time
MW03_11122022 L1559122-05 Non-Potable Water				MG / MF	11/12/22 15:40	11/17/22 11:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 900	WG1968143	1	12/09/22 13:47	12/14/22 11:10	SWM	Mt. Juliet, TN
Radiochemistry by Method 903.0/9315	WG1961194	1	12/09/22 11:12	12/15/22 16:52	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG1969805	1	12/06/22 15:49	12/28/22 15:18	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG1968143	1	12/09/22 13:47	12/14/22 11:10	RRE	Mt. Juliet, TN
Radiochemistry by Method D3972 U-02	WG1967592	1	12/06/22 17:00	12/08/22 19:08	RGT	Mt. Juliet, TN

				Collected by	Collected date/time	Received date/time
MW01_11122022 L1559122-06 Non-Potable Water				MG / MF	11/12/22 14:20	11/17/22 11:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 900	WG1968143	1	12/09/22 13:47	12/14/22 11:10	SWM	Mt. Juliet, TN
Radiochemistry by Method 903.0/9315	WG1961194	1	12/09/22 11:12	12/15/22 16:52	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG1969805	1	12/06/22 15:49	12/28/22 15:18	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG1968143	1	12/09/22 13:47	12/14/22 11:10	RRE	Mt. Juliet, TN
Radiochemistry by Method D3972 U-02	WG1967592	1	12/06/22 17:00	12/08/22 19:08	RGT	Mt. Juliet, TN



CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Donna Eidson
Project Manager

Report Revision History

Level II Report - Version 1: 01/04/23 14:19

Project Narrative

Added 620 U per customer request.



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	396		10.0	1	11/19/2022 09:22	WG1962366

Wet Chemistry by Method 2320 B-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Alkalinity,Carbonate	U		8.45	20.0	1	11/26/2022 08:18	WG1964876

Sample Narrative:

L1559122-01 WG1964876: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0500	0.100	1	11/29/2022 15:07	WG1962999

Wet Chemistry by Method 9040C

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.86	<u>T8</u>	1	11/25/2022 16:08	WG1965103

Sample Narrative:

L1559122-01 WG1965103: 7.86 at 20.1C

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Fluoride	0.284		0.0640	0.150	1	12/08/2022 20:48	WG1971206
Sulfate	125		0.594	5.00	1	12/08/2022 20:48	WG1971206

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury,Dissolved	U		0.000100	0.000200	1	11/28/2022 17:57	WG1963513

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Antimony,Dissolved	0.00491	<u>J</u>	0.00430	0.0100	1	12/05/2022 09:16	WG1964628
Arsenic,Dissolved	0.00663	<u>B J</u>	0.00440	0.0100	1	12/05/2022 09:16	WG1964628
Barium,Dissolved	0.0517		0.000736	0.00500	1	12/05/2022 09:16	WG1964628
Beryllium,Dissolved	U		0.000330	0.00200	1	12/05/2022 09:16	WG1964628
Cadmium,Dissolved	0.000541	<u>J</u>	0.000479	0.00200	1	12/05/2022 09:16	WG1964628
Calcium,Dissolved	85.1		0.0793	1.00	1	12/05/2022 09:16	WG1964628
Chromium,Dissolved	0.00176	<u>J</u>	0.00140	0.0100	1	12/05/2022 09:16	WG1964628
Copper,Dissolved	U		0.00368	0.0100	1	12/05/2022 09:16	WG1964628
Iron,Dissolved	0.0554	<u>J</u>	0.0180	0.100	1	12/05/2022 09:16	WG1964628
Lead,Dissolved	U		0.00299	0.00600	1	12/05/2022 09:16	WG1964628
Magnesium,Dissolved	41.2		0.0853	1.00	1	12/05/2022 09:16	WG1964628
Manganese,Dissolved	0.0354		0.000934	0.0100	1	12/05/2022 09:16	WG1964628
Nickel,Dissolved	0.0177		0.00161	0.0100	1	12/05/2022 09:16	WG1964628
Potassium,Dissolved	2.40		0.261	2.00	1	12/05/2022 09:16	WG1964628
Selenium,Dissolved	U		0.00735	0.0100	1	12/05/2022 09:16	WG1964628
Sodium,Dissolved	3.09		0.504	3.00	1	12/05/2022 09:16	WG1964628



Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Thallium,Dissolved	U		0.00431	0.0100	1	12/05/2022 09:16	WG1964628
Vanadium,Dissolved	U		0.00499	0.0200	1	12/05/2022 09:16	WG1964628
Zinc,Dissolved	0.631		0.00652	0.0500	1	12/05/2022 09:16	WG1964628

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Uranium	0.00513		0.0000789	0.00100	1	01/10/2023 15:48	WG1985271

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cr
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1040		20.0	1	11/19/2022 09:22	WG1962366

Wet Chemistry by Method 2320 B-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Alkalinity,Carbonate	U		8.45	20.0	1	11/26/2022 08:24	WG1964876

Sample Narrative:

L1559122-02 WG1964876: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0500	0.100	1	11/29/2022 15:09	WG1962999

Wet Chemistry by Method 9040C

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.17	<u>T8</u>	1	11/25/2022 16:08	WG1965103

Sample Narrative:

L1559122-02 WG1965103: 7.17 at 20C

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Fluoride	0.205		0.0640	0.150	1	12/08/2022 21:06	WG1971206
Sulfate	712		2.97	25.0	5	12/08/2022 21:24	WG1971206

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury,Dissolved	U		0.000100	0.000200	1	11/28/2022 18:04	WG1963513

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Antimony,Dissolved	0.00792	<u>J</u>	0.00430	0.0100	1	12/05/2022 09:27	WG1964628
Arsenic,Dissolved	0.0200	<u>B</u>	0.00440	0.0100	1	12/05/2022 09:27	WG1964628
Barium,Dissolved	0.00190	<u>J</u>	0.000736	0.00500	1	12/05/2022 09:27	WG1964628
Beryllium,Dissolved	U		0.000330	0.00200	1	12/05/2022 09:27	WG1964628
Cadmium,Dissolved	0.000563	<u>J</u>	0.000479	0.00200	1	12/05/2022 09:27	WG1964628
Calcium,Dissolved	199		0.0793	1.00	1	12/05/2022 09:27	WG1964628
Chromium,Dissolved	U		0.00140	0.0100	1	12/05/2022 09:27	WG1964628
Copper,Dissolved	U		0.00368	0.0100	1	12/05/2022 09:27	WG1964628
Iron,Dissolved	19.3		0.0180	0.100	1	12/05/2022 09:27	WG1964628
Lead,Dissolved	U		0.00299	0.00600	1	12/05/2022 09:27	WG1964628
Magnesium,Dissolved	93.8		0.0853	1.00	1	12/05/2022 09:27	WG1964628
Manganese,Dissolved	0.279		0.000934	0.0100	1	12/05/2022 09:27	WG1964628
Nickel,Dissolved	0.185		0.00161	0.0100	1	12/05/2022 09:27	WG1964628
Potassium,Dissolved	2.24		0.261	2.00	1	12/05/2022 09:27	WG1964628
Selenium,Dissolved	U		0.00735	0.0100	1	12/05/2022 09:27	WG1964628
Sodium,Dissolved	4.17		0.504	3.00	1	12/05/2022 09:27	WG1964628



Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Thallium,Dissolved	U		0.00431	0.0100	1	12/05/2022 09:27	WG1964628
Vanadium,Dissolved	U		0.00499	0.0200	1	12/05/2022 09:27	WG1964628
Zinc,Dissolved	2.50		0.00652	0.0500	1	12/05/2022 09:27	WG1964628

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Uranium	0.00496		0.0000789	0.00100	1	01/10/2023 15:52	WG1985271



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	594		10.0	1	11/19/2022 09:22	WG1962366

Wet Chemistry by Method 2320 B-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Alkalinity,Carbonate	U		8.45	20.0	1	11/26/2022 08:30	WG1964876

Sample Narrative:

L1559122-03 WG1964876: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0500	0.100	1	11/29/2022 15:10	WG1962999

Wet Chemistry by Method 9040C

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.67	<u>T8</u>	1	11/25/2022 16:08	WG1965103

Sample Narrative:

L1559122-03 WG1965103: 7.67 at 19.9C

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Fluoride	0.274		0.0640	0.150	1	12/08/2022 21:42	WG1971206
Sulfate	271		2.97	25.0	5	12/12/2022 18:04	WG1973077

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury,Dissolved	U		0.000100	0.000200	1	11/28/2022 18:06	WG1963513

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Antimony,Dissolved	0.0107		0.00430	0.0100	1	12/05/2022 09:29	WG1964628
Arsenic,Dissolved	0.0427	<u>B</u>	0.00440	0.0100	1	12/05/2022 09:29	WG1964628
Barium,Dissolved	0.0279		0.000736	0.00500	1	12/05/2022 09:29	WG1964628
Beryllium,Dissolved	U		0.000330	0.00200	1	12/05/2022 09:29	WG1964628
Cadmium,Dissolved	U		0.000479	0.00200	1	12/05/2022 09:29	WG1964628
Calcium,Dissolved	120		0.0793	1.00	1	12/05/2022 09:29	WG1964628
Chromium,Dissolved	0.00155	<u>J</u>	0.00140	0.0100	1	12/05/2022 09:29	WG1964628
Copper,Dissolved	U		0.00368	0.0100	1	12/05/2022 09:29	WG1964628
Iron,Dissolved	0.0467	<u>J</u>	0.0180	0.100	1	12/05/2022 09:29	WG1964628
Lead,Dissolved	U		0.00299	0.00600	1	12/05/2022 09:29	WG1964628
Magnesium,Dissolved	58.9		0.0853	1.00	1	12/05/2022 09:29	WG1964628
Manganese,Dissolved	0.0681		0.000934	0.0100	1	12/05/2022 09:29	WG1964628
Nickel,Dissolved	0.0953		0.00161	0.0100	1	12/05/2022 09:29	WG1964628
Potassium,Dissolved	1.65	<u>J</u>	0.261	2.00	1	12/05/2022 09:29	WG1964628
Selenium,Dissolved	U		0.00735	0.0100	1	12/05/2022 09:29	WG1964628
Sodium,Dissolved	3.47		0.504	3.00	1	12/05/2022 09:29	WG1964628



Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Thallium,Dissolved	U		0.00431	0.0100	1	12/05/2022 09:29	WG1964628
Vanadium,Dissolved	U		0.00499	0.0200	1	12/05/2022 09:29	WG1964628
Zinc,Dissolved	1.49		0.00652	0.0500	1	12/05/2022 09:29	WG1964628

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Uranium	0.0114		0.0000789	0.00100	1	01/10/2023 15:55	WG1985271



Radiochemistry by Method 900

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
GROSS ALPHA	9.79		2.15	1.52	12/14/2022 11:10	WG1968143

Radiochemistry by Method 903.0/9315

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Radium-226	2.27		0.862	0.360	12/15/2022 14:05	WG1961194
(T) Barium	104			30.0-143	12/15/2022 14:05	WG1961194

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	0.308	<u>J</u>	0.218	0.404	12/28/2022 15:18	WG1969805
(T) Barium	102			30.0-143	12/28/2022 15:18	WG1969805
(T) Yttrium	124			30.0-136	12/28/2022 15:18	WG1969805

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Adjusted Gross Alpha	4.11				12/14/2022 11:10	WG1968143

Radiochemistry by Method D3972 U-02

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
URANIUM-234	3.98		0.622	0.382	12/08/2022 19:08	WG1967592
URANIUM-235	0.267		0.182	0.208	12/08/2022 19:08	WG1967592
URANIUM-238	1.70		0.392	0.208	12/08/2022 19:08	WG1967592
(T) URANIUM-232	49.6			30.0-110	12/08/2022 19:08	WG1967592



Radiochemistry by Method 900

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
GROSS ALPHA	7.41		3.49	3.79	12/14/2022 11:10	WG1968143

Radiochemistry by Method 903.0/9315

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Radium-226	1.25		0.641	0.349	12/15/2022 16:52	WG1961194
(T) Barium	107			30.0-143	12/15/2022 16:52	WG1961194

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.907		0.291	0.520	12/28/2022 15:18	WG1969805
(T) Barium	104			30.0-143	12/28/2022 15:18	WG1969805
(T) Yttrium	135			30.0-136	12/28/2022 15:18	WG1969805

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Adjusted Gross Alpha	3.49				12/14/2022 11:10	WG1968143

Radiochemistry by Method D3972 U-02

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
URANIUM-234	2.26		0.443	0.374	12/08/2022 19:08	WG1967592
URANIUM-235	0.0494	<u>U</u>	0.0966	0.158	12/08/2022 19:08	WG1967592
URANIUM-238	1.67		0.337	0.158	12/08/2022 19:08	WG1967592
(T) URANIUM-232	70.5			30.0-110	12/08/2022 19:08	WG1967592

Radiochemistry by Method 900

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
GROSS ALPHA	17.6		2.77	1.67	12/14/2022 11:10	WG1968143

Radiochemistry by Method 903.0/9315

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Radium-226	3.05		1.03	0.549	12/15/2022 16:52	WG1961194
(T) Barium	106			30.0-143	12/15/2022 16:52	WG1961194

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.106	<u>U</u>	0.352	0.665	12/28/2022 15:18	WG1969805
(T) Barium	100			30.0-143	12/28/2022 15:18	WG1969805
(T) Yttrium	109			30.0-136	12/28/2022 15:18	WG1969805

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Adjusted Gross Alpha	4.31				12/14/2022 11:10	WG1968143

Radiochemistry by Method D3972 U-02

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
URANIUM-234	9.06		0.989	0.452	12/08/2022 19:08	WG1967592
URANIUM-235	0.0295	<u>U</u>	0.209	0.368	12/08/2022 19:08	WG1967592
URANIUM-238	4.26		0.665	0.246	12/08/2022 19:08	WG1967592
(T) URANIUM-232	50.6			30.0-110	12/08/2022 19:08	WG1967592



Method Blank (MB)

(MB) R3864432-1 11/19/22 09:22

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U	10.0	10.0	10.0

L1559122-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1559122-01 11/19/22 09:22 • (DUP) R3864432-3 11/19/22 09:22

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	396	415	1	4.69		5

Laboratory Control Sample (LCS)

(LCS) R3864432-2 11/19/22 09:22

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8930	101	77.3-123	

1	Cf
2	Tc
3	Ss
4	Cr
5	Sr
6	Qc
7	Gl
8	Al
9	Sc

Method Blank (MB)

(MB) R3872862-1 12/14/22 11:10

Analyte	MB Result pCi/l	MB Uncertainty + / -	MB MDA pCi/l
GROSS ALPHA	-0.167	0.411	0.686

L1559124-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1559124-04 12/14/22 11:10 • (DUP) R3872862-5 12/14/22 11:10

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
GROSS ALPHA	187	9.97	2.39	277	14.8	2.39	1	38.9	5.05	J3	20	3

Laboratory Control Sample (LCS)

(LCS) R3872862-2 12/14/22 11:10

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
GROSS ALPHA	15.0	15.0	100	80.0-120	

L1562790-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1562790-01 12/14/22 23:53 • (MS) R3872862-3 12/14/22 11:10 • (MSD) R3872862-4 12/14/22 11:10

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
GROSS ALPHA	15.0	2.09	15.6	15.3	90.0	87.9	1	70.0-130			2.07		20

Method Blank (MB)

(MB) R3872312-1 12/15/22 13:04

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty +/-	MB MDA pCi/l
Radium-226	0.0687	<u>U</u>	0.142	0.251
(7) Barium	90.7		90.7	

L1559122-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1559122-04 12/15/22 14:05 • (DUP) R3872312-5 12/15/22 13:34

Analyte	Original Result pCi/l	Original Uncertainty +/-	DUP Result pCi/l	DUP Uncertainty +/-	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-226	2.27	0.862	2.36	1.30	0.360	1	4.11	0.0609		20	3
(7) Barium	104		94.6	94.6							

Laboratory Control Sample (LCS)

(LCS) R3872312-2 12/15/22 13:04

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.01	5.90	118	80.0-120	
(7) Barium		96.1			

L1556623-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1556623-04 12/15/22 13:34 • (MS) R3872312-3 12/15/22 13:04 • (MSD) R3872312-4 12/15/22 13:04

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MS RER	RPD Limits %
Radium-226	20.0	0.519	20.0	22.2	97.2	108	1	75.0-125			20
(7) Barium		91.1	91.1		94.1	100					
											10.7

WG1969805

Radiochemistry by Method 904/9320

QUALITY CONTROL SUMMARY

L1559122-04.05.06

Method Blank (MB)

(MB) R3877617-1 12/28/22 15:18

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / -	MB MDA pCi/l
Radium-228	0.129	<u>U</u>	0.162	0.303
(T) Barium	98.1		98.1	
(T) Yttrium	92.5		92.5	

L1557029-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1557029-01 12/28/22 15:18 • (DUP) R3877617-5 12/28/22 15:18

Analyte	Original Result pCi/l	Original Uncertainty + / -	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	1.97	0.215	1.23	0.303	0.339	1	46.0	1.98		20	3
(T) Barium	111		113	113							
(T) Yttrium	118		113	113							

Laboratory Control Sample (LCS)

(LCS) R3877617-2 12/28/22 15:18

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	4.01	80.3	80.0-120	
(T) Barium			105		
(T) Yttrium			121		

L1558425-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1558425-11 12/28/22 15:18 • (MS) R3877617-3 12/28/22 15:18 • (MSD) R3877617-4 12/28/22 15:18

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	10.0	2.79	12.5	11.9	97.1	91.3	1	70.0-130			4.75		20
(T) Barium		108			111	108							
(T) Yttrium		121			115	112							

WG1967592

Radiochemistry by Method D3972 U-02

QUALITY CONTROL SUMMARY

L1559122-04.05.06

Method Blank (MB)

(MB) R3871568-1 12/08/22 19:08

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / -	MB MDA pCi/l
URANIUM-234	0.0813	J	0.0704	0.0984
URANIUM-235	0.000675	U	0.0287	0.0586
URANIUM-238	0.0719		0.0498	0.0586
(T) URANIUM-232	52.3		52.3	

L1562249-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1562249-03 12/08/22 19:08 • (DUP) R3871568-5 12/08/22 19:08

Analyte	Original Result uCi/F	Original Uncertainty + / -	Original MDA uCi/F	DUP Result uCi/F	DUP Uncertainty + / -	DUP MDA uCi/F	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
URANIUM-234	0.000000524	0.000000296	0.000000375	0.000000327	0.000000370	0.000000375	1	46.3	0.416	J	20	3
URANIUM-235	-0.0000000032	0.000000118	0.000000242	-0.0000000023	0.000000212	0.000000242	1	0.000	0.0381	U	20	3
URANIUM-238	0.000000524	0.000000237	0.000000242	0.000000436	0.000000234	0.000000242	1	18.3	0.264		20	3
(T) URANIUM-232	79.9			69.2	69.2							

Laboratory Control Sample (LCS)

(LCS) R3871568-2 12/08/22 19:08

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
URANIUM-234	10.1	10.4	103	80.0-120	
URANIUM-238	9.80	11.1	113	80.0-120	
(T) URANIUM-232			53.0		

L1559122-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1559122-06 12/08/22 19:08 • (MS) R3871568-3 12/08/22 19:08 • (MSD) R3871568-4 12/08/22 19:08

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
URANIUM-234	40.2	9.06	46.3	47.9	92.7	96.7	1	75.0-125			3.39	20	
URANIUM-238	39.2	4.26	43.5	44.1	100	102	1	75.0-125			1.23	20	
(T) URANIUM-232		50.6		47.1	47.1	62.7							

Method Blank (MB)

(MB) R3865276-3 11/26/22 08:10

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Alkalinity,Carbonate	U	8.45	20.0	20.0

Sample Narrative:

BLANK: Endpoint pH 4.5

L1560999-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1560999-01 11/26/22 08:39 • (DUP) R3865276-4 11/26/22 08:44

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity,Carbonate	U	U	1	0.000		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace
DUP: Endpoint pH 4.5

L1560999-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1560999-06 11/26/22 09:17 • (DUP) R3865276-5 11/26/22 09:22

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity,Carbonate	U	U	1	0.000		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace
DUP: Endpoint pH 4.5

WG1962999

Wet Chemistry by Method 353.2

QUALITY CONTROL SUMMARY

L1559122-01.02.03

Method Blank (MB)

(MB) R3866150-1	11/29/22 14:46	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l	mg/l	mg/l	mg/l	mg/l
Nitrate-Nitrite	U	0.0500	0.100		

L1556155-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1556155-02 11/29/22 14:48 • (DUP) R3866150-3 11/29/22 14:49

Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
mg/l	mg/l	%	%		%
Nitrate-Nitrite	0.414	0.406	1	1.95	20

L1559149-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1559149-01 11/29/22 15:17 • (DUP) R3866150-6 11/29/22 15:19

Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
mg/l	mg/l	%	%		%
Nitrate-Nitrite	0.0737	0.0711	1	3.59	20

Laboratory Control Sample (LCS)

(LCS) R3866150-2 11/29/22 14:47

Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
mg/l	mg/l	%	%	
Nitrate-Nitrite	2.50	2.55	102	90.0-110

L1556155-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1556155-02 11/29/22 14:48 • (MS) R3866150-4 11/29/22 14:51 • (MSD) R3866150-5 11/29/22 14:52

Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Nitrate-Nitrite	2.50	0.414	3.04	3.04	3.01	1	90.0-110	0.992	0.992	20	

L1559149-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1559149-01 11/29/22 15:17 • (MS) R3866150-7 11/29/22 15:20

Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
mg/l	mg/l	mg/l	%		%	
Nitrate-Nitrite	2.50	0.0737	2.60	101	90.0-110	

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WG1965103

Wet Chemistry by Method 9040C

QUALITY CONTROL SUMMARY

L1559122-01.02.03

L1560232-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1560232-02 11/25/22 16:08 • (DUP) R3865110-2 11/25/22 16:08

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	SU	SU		%		%
pH	7.68	7.70	1	0.260		1

Sample Narrative:

OS: 7.68 at 19.6C
DUP: 7.7 at 19.7C

L1560703-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1560703-01 11/25/22 16:08 • (DUP) R3865110-3 11/25/22 16:08

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	SU	SU		%		%
pH	7.72	7.70	1	0.259		1

Sample Narrative:

OS: 7.72 at 19.8C
DUP: 7.7 at 19.8C

Laboratory Control Sample (LCS)

(LCS) R3865110-1 11/25/22 16:08

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	SU	SU	%	%	
pH	10.0	9.91	99.1	99.0-101	

Sample Narrative:

LCS: 9.91 at 19.7C

WG1971206

Wet Chemistry by Method 9056A

QUALITY CONTROL SUMMARY

L1559122-01.02.03

Method Blank (MB)

(MB) R3870756-1 12/08/22 10:53

Analyte	MB Result mg/l	MB MDL mg/l	MB RDL mg/l
Fluoride	U	0.0640	0.150
Sulfate	U	0.594	5.00

L1565119-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1565119-04 12/08/22 14:15 • (DUP) R3870756-3 12/08/22 14:33

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits
Fluoride	0.945	0.930	1	1.63		15
Sulfate	47.7	47.7	1	0.00168		15

L1565129-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1565129-02 12/08/22 17:32 • (DUP) R3870756-6 12/08/22 17:50

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits
Fluoride	0.239	0.255	1	6.44		15
Sulfate	150	151	1	0.274		15

Laboratory Control Sample (LCS)

(LCS) R3870756-2 12/08/22 11:11

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluoride	8.00	7.74	96.7	80.0-120	
Sulfate	40.0	38.9	97.2	80.0-120	

L1565119-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1565119-04 12/08/22 14:15 • (MS) R3870756-4 12/08/22 14:51 • (MSD) R3870756-5 12/08/22 15:45

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Fluoride	5.00	0.945	5.77	5.76	1	80.0-120	96.6	96.3	0.222	15
Sulfate	50.0	47.7	98.4	98.1	1	80.0-120	101	101	0.319	15

WG1971206

Wet Chemistry by Method 9056A

QUALITY CONTROL SUMMARY

L1559122-01.02.03

L1565129-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1565129-02 12/08/22 17:32 • (MS) R3870756-7 12/08/22 18:08

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Fluoride	5.00	0.239	4.95	94.1	1	80.0-120	
Sulfate	50.0	150	197	93.4	1	80.0-120	

1 Cf

2 Tc

3 Ss

4 Cr

5 Sr

6 Qc

7 GI

8 Al

9 Sc

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Method Blank (MB)

(MB) R3871050-1 12/12/22 10:03

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Sulfate	0.811	J	0.594	5.00

L1559122-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1559122-03 12/12/22 18:04 • (DUP) R3871050-3 12/12/22 18:16

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits
Sulfate	271	271	5	0.120		15

L1565565-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1565565-08 12/12/22 20:49 • (DUP) R3871050-6 12/12/22 21:02

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits
Sulfate	386	373	5	3.55		15

Laboratory Control Sample (LCS)

(LCS) R3871050-2 12/12/22 10:16

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits	LCS Qualifier
Sulfate	40.0	38.7	96.7	80.0-120	

L1564962-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1564962-01 12/12/22 19:33 • (MS) R3871050-4 12/12/22 19:46 • (MSD) R3871050-5 12/12/22 19:58

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Sulfate	50.0	38.7	86.5	87.1	95.7	96.9	1	80.0-120		0.688	0.688	15

L1566271-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L1566271-03 12/12/22 21:40 • (MS) R3871050-7 12/12/22 21:53

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Sulfate	50.0	2.97	52.6	99.3	1	80.0-120	

WG1963513

Mercury by Method 7470A

QUALITY CONTROL SUMMARY

L1559122-01.02.03

Method Blank (MB)

(MB) R3865798-1 11/28/22 17:52

Analyte	MB Result mg/l	MB MDL mg/l	MB RDL mg/l
Mercury, Dissolved	U	0.000100	0.000200

Laboratory Control Sample (LCS)

(LCS) R3865798-2 11/28/22 17:55

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits mg/l	LCS Qualifier
Mercury, Dissolved	0.00300	0.00293	97.7	80.0-120	

L1559122-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1559122-01 11/28/22 17:57 • (MS) R3865798-3 11/28/22 17:59 • (MSD) R3865798-4 11/28/22 18:01

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	Dilution	Rec. Limits %	MSD Rec. %	MSD Qualifier	MS Qualifier	RPD %	RPD Limits %
Mercury, Dissolved	0.00300	U	0.00313	0.00297	1	75.0-125	99.0			5.25	20

1	Cf
2	Tc
3	Ss
4	Cr
5	Sr
6	Qc
7	Gl
8	Al
9	Sc

WG1964628

Metals (ICP) by Method 6010B

QUALITY CONTROL SUMMARY

L1559122-01.02.03

Method Blank (MB)

(MB) R3868173-1 12/05/22 09:10

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Antimony, Dissolved	U		0.00430	0.0100
Arsenic, Dissolved	0.00525	J	0.00440	0.0100
Barium, Dissolved	U		0.000736	0.00500
Beryllium, Dissolved	U		0.000330	0.00200
Cadmium, Dissolved	U		0.000479	0.00200
Calcium, Dissolved	U		0.0793	1.00
Chromium, Dissolved	U		0.00140	0.0100
Copper, Dissolved	U		0.00368	0.0100
Iron, Dissolved	U		0.0180	0.100
Lead, Dissolved	0.00322	J	0.00299	0.00600
Magnesium, Dissolved	U		0.0853	1.00
Manganese, Dissolved	U		0.000934	0.0100
Nickel, Dissolved	U		0.00161	0.0100
Potassium, Dissolved	U		0.261	2.00
Selenium, Dissolved	U		0.00735	0.0100
Sodium, Dissolved	U		0.504	3.00
Thallium, Dissolved	U		0.00431	0.0100
Vanadium, Dissolved	U		0.00499	0.0200
Zinc, Dissolved	U		0.00652	0.0500

Laboratory Control Sample (LCS)

(LCS) R3868173-2 12/05/22 09:13

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Antimony, Dissolved	1.00	1.03	103	80.0-120	
Arsenic, Dissolved	1.00	0.978	97.8	80.0-120	
Barium, Dissolved	1.00	1.07	107	80.0-120	
Beryllium, Dissolved	1.00	1.04	104	80.0-120	
Cadmium, Dissolved	1.00	1.02	102	80.0-120	
Calcium, Dissolved	10.0	10.3	103	80.0-120	
Chromium, Dissolved	1.00	1.02	102	80.0-120	
Copper, Dissolved	1.00	1.01	101	80.0-120	
Iron, Dissolved	10.0	10.3	103	80.0-120	
Lead, Dissolved	1.00	1.02	102	80.0-120	
Magnesium, Dissolved	10.0	9.64	96.4	80.0-120	
Manganese, Dissolved	1.00	0.978	97.8	80.0-120	
Nickel, Dissolved	1.00	1.02	102	80.0-120	
Potassium, Dissolved	10.0	9.62	96.2	80.0-120	

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Metals (ICP) by Method 6010B

QUALITY CONTROL SUMMARY

L1559122-01.02.03

Laboratory Control Sample (LCS)

(LCS) R3868173-2 12/05/22 09:13

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Selenium, Dissolved	1.00	1.01	101	80.0-120	
Sodium, Dissolved	10.0	10.6	106	80.0-120	
Thallium, Dissolved	1.00	1.02	102	80.0-120	
Vanadium, Dissolved	1.00	1.03	103	80.0-120	
Zinc, Dissolved	1.00	0.983	98.3	80.0-120	

L1559122-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1559122-01 12/05/22 09:16 • (MS) R3868173-4 12/05/22 09:21 • (MSD) R3868173-5 12/05/22 09:24

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Antimony, Dissolved	1.00	0.00491	1.12	1.08	111	108	1	75.0-125			3.11	20
Arsenic, Dissolved	1.00	0.00663	1.05	1.03	104	103	1	75.0-125			1.61	20
Barium, Dissolved	1.00	0.0517	1.16	1.15	111	109	1	75.0-125			1.11	20
Beryllium, Dissolved	1.00	U	1.07	1.06	107	106	1	75.0-125			0.934	20
Cadmium, Dissolved	1.00	0.000541	1.09	1.08	109	108	1	75.0-125			1.16	20
Calcium, Dissolved	10.0	85.1	94.3	93.4	92.7	82.9	1	75.0-125			1.05	20
Chromium, Dissolved	1.00	0.00176	1.04	1.03	104	103	1	75.0-125			0.707	20
Copper, Dissolved	1.00	U	1.05	1.04	105	104	1	75.0-125			0.537	20
Iron, Dissolved	10.0	0.0554	10.6	10.5	106	104	1	75.0-125			1.00	20
Lead, Dissolved	1.00	U	1.08	1.07	108	107	1	75.0-125			0.499	20
Magnesium, Dissolved	10.0	41.2	50.1	49.5	89.4	82.5	1	75.0-125			1.39	20
Manganese, Dissolved	1.00	0.0354	1.05	1.04	101	100	1	75.0-125			0.640	20
Nickel, Dissolved	1.00	0.0177	1.09	1.08	107	106	1	75.0-125			0.709	20
Potassium, Dissolved	10.0	2.40	12.4	12.3	100	98.9	1	75.0-125			1.08	20
Selenium, Dissolved	1.00	U	1.09	1.08	109	108	1	75.0-125			1.45	20
Sodium, Dissolved	10.0	3.09	14.2	14.1	111	110	1	75.0-125			0.587	20
Thallium, Dissolved	1.00	U	1.08	1.07	108	107	1	75.0-125			1.03	20
Vanadium, Dissolved	1.00	U	1.06	1.05	106	105	1	75.0-125			0.830	20
Zinc, Dissolved	1.00	0.631	1.60	1.58	97.2	94.8	1	75.0-125			1.52	20

Method Blank (MB)

(MB) R3879633-1 01/10/23 15:29

Analyte	MB Result mg/l	MB MDL mg/l	MB RDL mg/l
Uranium	U 0.0000789	0.0000789	0.00100

Laboratory Control Sample (LCS)

(LCS) R3879633-2 01/10/23 15:32

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Uranium	0.0500	0.0485	97.0	80.0-120	

L1573862-23 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1573862-23 01/10/23 15:35 • (MS) R3879633-4 01/10/23 15:42 • (MSD) R3879633-5 01/10/23 15:45

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Uranium	0.0500	0.000287	0.0523	0.0524	104	104	1	75.0-125		0.147	0.147	20



GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

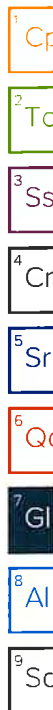
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Abbreviations and Definitions

MDA	Minimum Detectable Activity.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RER	Replicate Error Ratio.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
(T)	Tracer - A radioisotope of known concentration added to a solution of chemically equivalent radioisotopes at a known concentration to assist in monitoring the yield of the chemical separation.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
T8	Sample(s) received past/too close to holding time expiration.
U	Below Detectable Limits: Indicates that the analyte was not detected.



ACCREDITATIONS & LOCATIONS

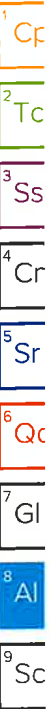
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-05-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA -- ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



Energy Fuels Resources
 3549 South Cheryl Drive
 Flagstaff, AZ 86005

Accounts Payable
 3549 South Cheryl Drive
 Suite 600
 Lakewood, CO 80228

Report to: **Kathy Weinel**
 Project Description: **City/State Collected:**
 Client Project # **ENEFUELCO**
 Site/Facility ID # **P.O. #**
 Quote # **00122018**
 Date Results Needed

Lab Project # **ENEFUELCO**
 Please Circle: **PT MT CT ET**
 Rush? (Lab MUST Be Notified)
 Same Day Five Day
 Next Day 5 Day (Rad Only)
 Two Day 10 Day (Rad Only)
 Three Day

Sample ID **MW02-11122022**
 Matrix * **GW**
 Comp/Grab **GW**
 Depth **1244**
 Date **11/12/22**
 Time **1244**
 No. of Cntrs **6**

Sample ID **MW03-11132022**
 Matrix * **GW**
 Comp/Grab **GW**
 Depth **1540**
 Date **11/13/22**
 Time **1540**
 No. of Cntrs **6**

Sample ID **MW01-11152022**
 Matrix * **GW**
 Comp/Grab **GW**
 Depth **1420**
 Date **11/15/22**
 Time **1420**
 No. of Cntrs **6**

Sample ID **Same as Above**
 Matrix * **NPW**
 Comp/Grab **NPW**
 Depth **4**
 Date **11/17/22**
 Time **0900**
 No. of Cntrs **4**

Sample ID **Same as Above**
 Matrix * **NPW**
 Comp/Grab **NPW**
 Depth **4**
 Date **11/17/22**
 Time **0900**
 No. of Cntrs **4**

Sample ID **Same as Above**
 Matrix * **NPW**
 Comp/Grab **NPW**
 Depth **4**
 Date **11/17/22**
 Time **0900**
 No. of Cntrs **4**

Sample ID **Same as Above**
 Matrix * **NPW**
 Comp/Grab **NPW**
 Depth **4**
 Date **11/17/22**
 Time **0900**
 No. of Cntrs **4**

Sample ID **Same as Above**
 Matrix * **NPW**
 Comp/Grab **NPW**
 Depth **4**
 Date **11/17/22**
 Time **0900**
 No. of Cntrs **4**

Analysis / Contaminant / Preservative	Pres Chk	FLUORIDE,SULFATE 125mHDPE-NOPres	GROSS ALPHA 500mHDPE-Add HNO3	Metals(field filter) 250mHDPE-HNO3	NO2NO3 250mHDPE-H2SO4	PH 125mHDPE-NOPres	RA-226 1L-HDPE-Add HNO3	RA-228 1L-HDPE-Add-HNO3	TDS 1L-HDPE NOPres
		X	X	X	X	X	X	X	X
		X	X	X	X	X	X	X	X
		X	X	X	X	X	X	X	X
		X	X	X	X	X	X	X	X
		X	X	X	X	X	X	X	X
		X	X	X	X	X	X	X	X
		X	X	X	X	X	X	X	X
		X	X	X	X	X	X	X	X
		X	X	X	X	X	X	X	X

Shipping Via: **FedEX Ground**
 Sample # (lab only) **01/04**
01/04
02/05
07/06

Acctnum: **ENEFUELCO**
 Template: **T215494**
 Prelogin: **P948252**
 PM: **732L - Donna Eidson**
 PB: **3022 MW**

SDG # **U559122**
E041

12065 Lebanon Rd Mount Juliet, TN 37122
 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at <http://info.paceab.com/hubb/ops/standards-terms.pdf>

PEOPLE APPROACHING SCIENCE

Pace

MT JULIET, TN

Sample Receipt Checklist
 COC Seal Present/Intact: Y N
 COC Signed/Accurate: Y N
 Bottles arrive intact: Y N
 Correct bottles used: Y N
 Sufficient volume sent: Y N
 IF Applicable
 vva Zero Headpace: Y N
 Preservation Correct/Checked: Y N
 RAD Screen <0.5 mP/hr: Y N

If preservation required by Login: Date: Time
 Hold:
 Condition:
 NCF /

Billing Information:
Energy Fuels Resources
 3549 South Cheryl Drive
 Suite 600
 Lakewood, CO 80228

Email To: **KWeinel@energyfuels.com**

Lab Project # **ENEFUELCO**

Quote # **00122018**
 Date Results Needed

Matrix * **GW**
 Comp/Grab **GW**
 Depth **1244**
 Date **11/12/22**
 Time **1244**
 No. of Cntrs **6**

Matrix * **GW**
 Comp/Grab **GW**
 Depth **1540**
 Date **11/13/22**
 Time **1540**
 No. of Cntrs **6**

Matrix * **GW**
 Comp/Grab **GW**
 Depth **1420**
 Date **11/15/22**
 Time **1420**
 No. of Cntrs **6**

Matrix * **NPW**
 Comp/Grab **NPW**
 Depth **4**
 Date **11/17/22**
 Time **0900**
 No. of Cntrs **4**

Matrix * **NPW**
 Comp/Grab **NPW**
 Depth **4**
 Date **11/17/22**
 Time **0900**
 No. of Cntrs **4**

Matrix * **NPW**
 Comp/Grab **NPW**
 Depth **4**
 Date **11/17/22**
 Time **0900**
 No. of Cntrs **4**

Remarks: Dissolved Metals are field-filtered.
GW Sampling

Samples returned via: **XUPS** FedEx Courier
 Tracking # **12 18E 99F 0194817277**

Received by: (Signature) **Melissa Haffner**
 Date: **11/10/22**
 Time: **230**

Received by: (Signature) **Julie Guller**
 Date: **11-17-22**
 Time: **0900**

Received by: (Signature) **Julie Guller**
 Date: **11-17-22**
 Time: **0900**

Received by: (Signature) **Julie Guller**
 Date: **11-17-22**
 Time: **0900**

Received by: (Signature) **Julie Guller**
 Date: **11-17-22**
 Time: **0900**

Received by: (Signature) **Julie Guller**
 Date: **11-17-22**
 Time: **0900**

Received by: (Signature) **Julie Guller**
 Date: **11-17-22**
 Time: **0900**

Received by: (Signature) **Julie Guller**
 Date: **11-17-22**
 Time: **0900**



ANALYTICAL REPORT

January 27, 2023

Revised Report

Energy Fuels Resources

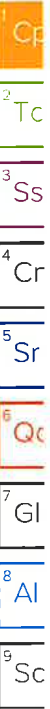
Sample Delivery Group: L1559124

Samples Received: 11/17/2022

Project Number:

Description:

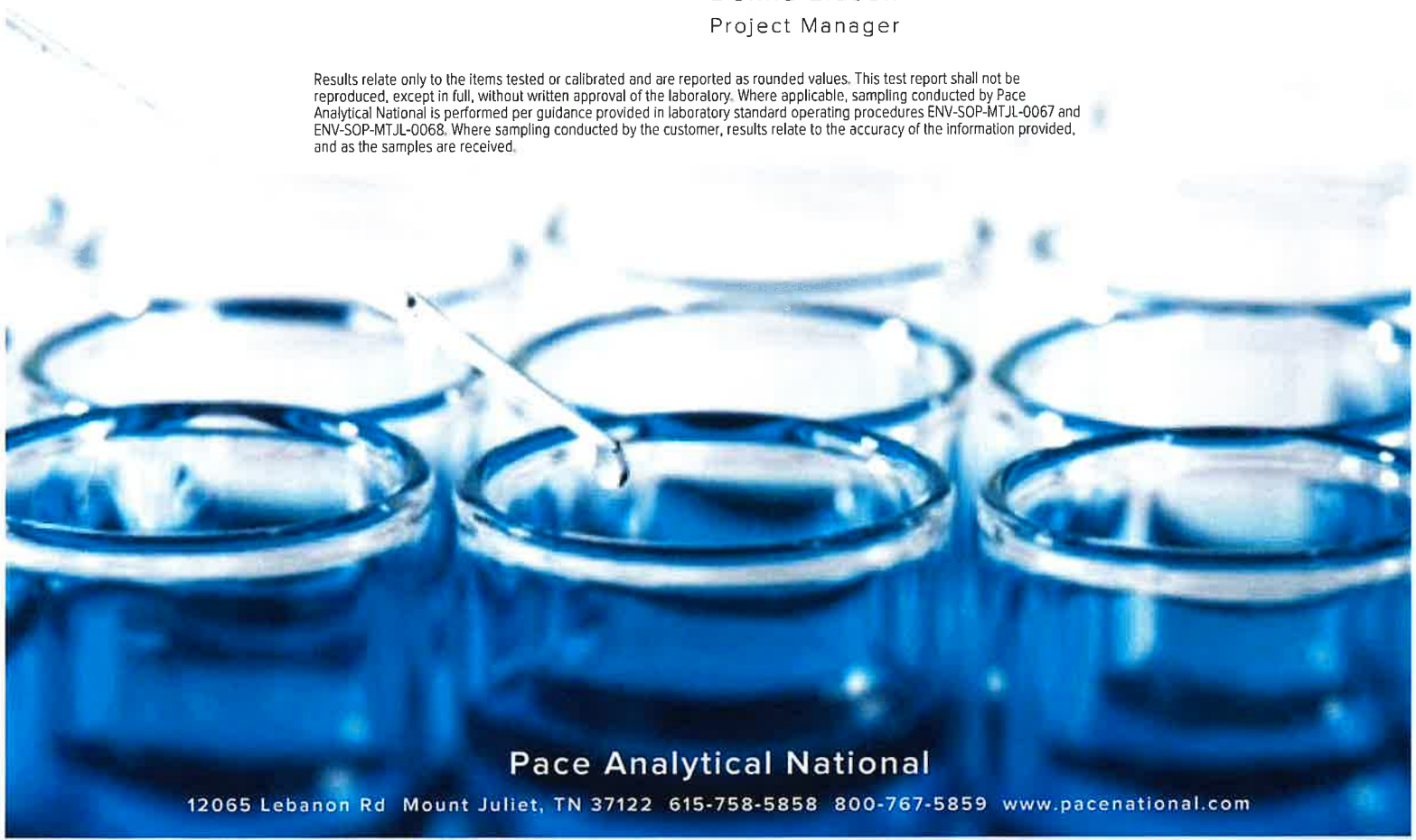
Report To: Kathy Weinel
225 Union Blvd
Suite 600
Lakewood, CO 80228



Entire Report Reviewed By:

Donna Eidson
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

ACCOUNT:

PROJECT:

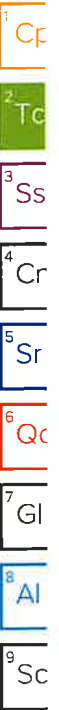
SDG:

DATE/TIME:

PAGE:

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SAMPLE SUMMARY

				Collected by	Collected date/time	Received date/time
				MG / MF	11/16/22 07:30	11/17/22 11:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1964149	1	11/23/22 10:21	11/23/22 11:51	AS	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1964875	1	11/25/22 07:14	11/25/22 07:14	ARD	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1962999	20	11/29/22 15:11	11/29/22 15:11	JCS	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG1965103	1	11/25/22 16:08	11/25/22 16:08	KAD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1971206	1	12/08/22 22:00	12/08/22 22:00	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1973077	5	12/12/22 18:29	12/12/22 18:29	LBR	Mt. Juliet, TN
Mercury by Method 7470A	WG1963512	1	11/22/22 15:13	11/23/22 10:25	SRT	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1973503	1	12/14/22 19:40	12/15/22 12:54	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1973503	1	12/14/22 19:40	12/15/22 19:12	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1988004	1	01/13/23 12:42	01/13/23 15:23	JPD	Mt. Juliet, TN

				Collected by	Collected date/time	Received date/time
				MG / MF	11/16/22 07:30	11/17/22 11:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1964149	1	11/23/22 10:21	11/23/22 11:51	AS	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1964875	1	11/25/22 07:20	11/25/22 07:20	ARD	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1962999	20	11/29/22 15:12	11/29/22 15:12	JCS	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG1965103	1	11/25/22 16:08	11/25/22 16:08	KAD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1971206	1	12/08/22 22:54	12/08/22 22:54	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1973077	5	12/12/22 18:42	12/12/22 18:42	LBR	Mt. Juliet, TN
Mercury by Method 7470A	WG1963512	1	11/22/22 15:13	11/23/22 10:36	SRT	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1973503	1	12/14/22 19:40	12/15/22 12:44	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1988004	1	01/13/23 12:42	01/13/23 15:26	JPD	Mt. Juliet, TN

				Collected by	Collected date/time	Received date/time
				MG / MF	11/16/22 07:30	11/17/22 11:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 900	WG1968143	1	12/09/22 13:47	12/14/22 11:10	SWM	Mt. Juliet, TN
Radiochemistry by Method 903.0/9315	WG1961194	1	12/09/22 11:12	12/15/22 16:52	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG1969805	1	12/06/22 15:49	12/28/22 15:18	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG1968143	1	12/09/22 13:47	12/14/22 11:10	RRE	Mt. Juliet, TN
Radiochemistry by Method D3972 U-02	WG1967592	1	12/06/22 17:00	12/09/22 10:03	RGT	Mt. Juliet, TN

				Collected by	Collected date/time	Received date/time
				MG / MF	11/16/22 07:30	11/17/22 11:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 900	WG1968143	1	12/09/22 13:47	12/14/22 11:10	SWM	Mt. Juliet, TN
Radiochemistry by Method 903.0/9315	WG1961194	1	12/09/22 11:12	12/15/22 16:52	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG1969805	1	12/06/22 15:49	12/28/22 15:18	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG1968143	1	12/09/22 13:47	12/14/22 11:10	SWM	Mt. Juliet, TN
Radiochemistry by Method D3972 U-02	WG1967592	1	12/06/22 17:00	12/08/22 19:08	RGT	Mt. Juliet, TN



CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



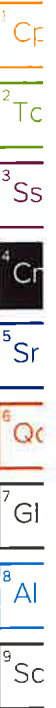
Donna Eidson
Project Manager

Report Revision History

Level II Report - Version 1: 01/04/23 14:19

Project Narrative

Added 6020 U per customer request



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	787	<u>J3</u>	13.3	1	11/23/2022 11:51	<u>WG1964149</u>

Wet Chemistry by Method 2320 B-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Alkalinity,Carbonate	U		8.45	20.0	1	11/25/2022 07:14	<u>WG1964875</u>

Sample Narrative:

L1559124-01 WG1964875: Endpoint pH 4.5 headspace

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	13.2		1.00	2.00	20	11/29/2022 15:11	<u>WG1962999</u>

Wet Chemistry by Method 9040C

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.81	<u>T8</u>	1	11/25/2022 16:08	<u>WG1965103</u>

Sample Narrative:

L1559124-01 WG1965103: 7.81 at 19.7C

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Fluoride	0.341		0.0640	0.150	1	12/08/2022 22:00	<u>WG1971206</u>
Sulfate	395		2.97	25.0	5	12/12/2022 18:29	<u>WG1973077</u>

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.000100	0.000200	1	11/23/2022 10:25	<u>WG1963512</u>

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Antimony	0.00549	<u>J</u>	0.00430	0.0100	1	12/15/2022 12:54	<u>WG1973503</u>
Arsenic	0.169		0.00440	0.0100	1	12/15/2022 12:54	<u>WG1973503</u>
Barium	0.0517		0.000736	0.00500	1	12/15/2022 12:54	<u>WG1973503</u>
Beryllium	U		0.000330	0.00200	1	12/15/2022 12:54	<u>WG1973503</u>
Cadmium	0.000783	<u>J</u>	0.000479	0.00200	1	12/15/2022 12:54	<u>WG1973503</u>
Calcium	124		0.0793	1.00	1	12/15/2022 12:54	<u>WG1973503</u>
Chromium	0.00225	<u>J</u>	0.00140	0.0100	1	12/15/2022 12:54	<u>WG1973503</u>
Copper	0.117		0.00368	0.0100	1	12/15/2022 12:54	<u>WG1973503</u>
Iron	4.52		0.0180	0.100	1	12/15/2022 12:54	<u>WG1973503</u>
Lead	0.0395		0.00299	0.00600	1	12/15/2022 12:54	<u>WG1973503</u>
Magnesium	65.3		0.0853	1.00	1	12/15/2022 12:54	<u>WG1973503</u>
Manganese	0.108		0.000934	0.0100	1	12/15/2022 12:54	<u>WG1973503</u>
Nickel	0.478		0.00161	0.0100	1	12/15/2022 12:54	<u>WG1973503</u>
Potassium	7.62		0.261	2.00	1	12/15/2022 12:54	<u>WG1973503</u>
Selenium	U		0.00735	0.0100	1	12/15/2022 12:54	<u>WG1973503</u>
Sodium	28.2		0.504	3.00	1	12/15/2022 12:54	<u>WG1973503</u>



Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Thallium	U		0.00431	0.0100	1	12/15/2022 19:12	WG1973503
Vanadium	U		0.00499	0.0200	1	12/15/2022 12:54	WG1973503
Zinc	0.540		0.00652	0.0500	1	12/15/2022 12:54	WG1973503

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Uranium	0.119		0.0000789	0.00100	1	01/13/2023 15:23	WG1988004



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	784	<u>J3</u>	13.3	1	11/23/2022 11:51	WG1964149

Wet Chemistry by Method 2320 B-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Alkalinity,Carbonate	U		8.45	20.0	1	11/25/2022 07:20	WG1964875

Sample Narrative:

L1559124-02 WG1964875: Endpoint pH 4.5 headspace

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	12.4		1.00	2.00	20	11/29/2022 15:12	WG1962999

Wet Chemistry by Method 9040C

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.77	<u>T8</u>	1	11/25/2022 16:08	WG1965103

Sample Narrative:

L1559124-02 WG1965103: 7.77 at 19.8C

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Fluoride	0.249		0.0640	0.150	1	12/08/2022 22:54	WG1971206
Sulfate	390		2.97	25.0	5	12/12/2022 18:42	WG1973077

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.000100	0.000200	1	11/23/2022 10:36	WG1963512

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Antimony	0.00691	<u>J</u>	0.00430	0.0100	1	12/15/2022 12:44	WG1973503
Arsenic	0.172		0.00440	0.0100	1	12/15/2022 12:44	WG1973503
Barium	0.0533		0.000736	0.00500	1	12/15/2022 12:44	WG1973503
Beryllium	U		0.000330	0.00200	1	12/15/2022 12:44	WG1973503
Cadmium	0.000756	<u>J</u>	0.000479	0.00200	1	12/15/2022 12:44	WG1973503
Calcium	123		0.0793	1.00	1	12/15/2022 12:44	WG1973503
Chromium	0.00212	<u>J</u>	0.00140	0.0100	1	12/15/2022 12:44	WG1973503
Copper	0.122		0.00368	0.0100	1	12/15/2022 12:44	WG1973503
Iron	4.61		0.0180	0.100	1	12/15/2022 12:44	WG1973503
Lead	0.0449		0.00299	0.00600	1	12/15/2022 12:44	WG1973503
Magnesium	65.3		0.0853	1.00	1	12/15/2022 12:44	WG1973503
Manganese	0.110		0.000934	0.0100	1	12/15/2022 12:44	WG1973503
Nickel	0.474		0.00161	0.0100	1	12/15/2022 12:44	WG1973503
Potassium	7.57		0.261	2.00	1	12/15/2022 12:44	WG1973503
Selenium	U		0.00735	0.0100	1	12/15/2022 12:44	WG1973503
Sodium	28.4	<u>O1</u>	0.504	3.00	1	12/15/2022 12:44	WG1973503



Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Thallium	0.00679	J	0.00431	0.0100	1	12/15/2022 12:44	WG1973503
Vanadium	U		0.00499	0.0200	1	12/15/2022 12:44	WG1973503
Zinc	0.545	O1	0.00652	0.0500	1	12/15/2022 12:44	WG1973503

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Uranium	0.115		0.0000789	0.00100	1	01/13/2023 15:26	WG1988004

1 Cf

2 Tc

3 Ss

4 Cr

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Radiochemistry by Method 900

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
GROSS ALPHA	180		9.35	2.33	12/14/2022 11:10	WG1968143

Radiochemistry by Method 903.0/9315

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Radium-226	6.95		1.52	0.564	12/15/2022 16:52	WG1961194
(T) Barium	102			30.0-143	12/15/2022 16:52	WG1961194

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.880		0.366	0.665	12/28/2022 15:18	WG1969805
(T) Barium	108			30.0-143	12/28/2022 15:18	WG1969805
(T) Yttrium	100			30.0-136	12/28/2022 15:18	WG1969805

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Adjusted Gross Alpha	72.8				12/14/2022 11:10	WG1968143

Radiochemistry by Method D3972 U-02

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
URANIUM-234	73.1		2.44	0.521	12/09/2022 10:03	WG1967592
URANIUM-235	3.03		0.533	0.358	12/09/2022 10:03	WG1967592
URANIUM-238	34.0		1.65	0.249	12/09/2022 10:03	WG1967592
(T) URANIUM-232	58.1			30.0-110	12/09/2022 10:03	WG1967592



Radiochemistry by Method 900

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
GROSS ALPHA	187	<u>J3</u>	9.97	2.39	12/14/2022 11:10	WG1968143

Radiochemistry by Method 903.0/9315

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Radium-226	7.34		1.53	0.454	12/15/2022 16:52	WG1961194
(T) Barium	107			30.0-143	12/15/2022 16:52	WG1961194

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	1.03		0.304	0.540	12/28/2022 15:18	WG1969805
(T) Barium	113			30.0-143	12/28/2022 15:18	WG1969805
(T) Yttrium	120			30.0-136	12/28/2022 15:18	WG1969805

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Adjusted Gross Alpha	70.1				12/14/2022 11:10	WG1968143

Radiochemistry by Method D3972 U-02

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
URANIUM-234	79.0		2.61	0.466	12/08/2022 19:08	WG1967592
URANIUM-235	3.95		0.589	0.208	12/08/2022 19:08	WG1967592
URANIUM-238	37.5		1.80	0.349	12/08/2022 19:08	WG1967592
(T) URANIUM-232	55.2			30.0-110	12/08/2022 19:08	WG1967592



Method Blank (MB)

(MB) R3865030-1 11/23/22 11:51

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U	10.0	10.0	10.0

L1559124-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1559124-01 11/23/22 11:51 • (DUP) R3865030-3 11/23/22 11:51

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	787	844	1	7.03	J3	5

L1559124-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1559124-02 11/23/22 11:51 • (DUP) R3865030-4 11/23/22 11:51

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	784	921	1	16.1	J3	5

Laboratory Control Sample (LCS)

(LCS) R3865030-2 11/23/22 11:51

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8450	96.0	77.3-123	

Method Blank (MB)

(MB) R3872862-1 12/14/22 11:10

Analyte	MB Result pCi/l	MB Uncertainty +/-	MB Qualifier	MB Uncertainty +/-	MB MDA pCi/l
GROSS ALPHA	-0.167	0.411	<u>U</u>	0.686	0.686

L1559124-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1559124-04 12/14/22 11:10 • (DUP) R3872862-5 12/14/22 11:10

Analyte	Original Result pCi/l	Original Uncertainty +/-	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty +/-	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
GROSS ALPHA	187	9.97	2.39	277	14.8	2.39	1	38.9	5.05	<u>J3</u>	20	3

Laboratory Control Sample (LCS)

(LCS) R3872862-2 12/14/22 11:10

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
GROSS ALPHA	15.0	15.0	100	80.0-120	

L1562790-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1562790-01 12/14/22 23:53 • (MS) R3872862-3 12/14/22 11:10 • (MSD) R3872862-4 12/14/22 11:10

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
GROSS ALPHA	15.0	2.09	15.6	15.3	90.0	87.9	1	70.0-130			2.07		20

Method Blank (MB)

(MB) R3872312-1 12/15/22 13:04

Analyte	MB Result pCi/l	MB Uncertainty + / -	MB MDA pCi/l
Radium-226	0.0687	0.142	0.251
(f) Barium	90.7	90.7	

L1559122-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1559122-04 12/15/22 14:05 • (DUP) R3872312-5 12/15/22 13:34

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-226	2.27	0.862	0.360	2.36	1.30	0.360	1	4.11	0.0609		20	3
(f) Barium	104			94.6	94.6							

Laboratory Control Sample (LCS)

(LCS) R3872312-2 12/15/22 13:04

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.01	5.90	118	80.0-120	
(f) Barium			96.1		

L1556623-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1556623-04 12/15/22 13:34 • (MS) R3872312-3 12/15/22 13:04 • (MSD) R3872312-4 12/15/22 13:04

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-226	20.0	0.519	20.0	22.2	97.2	108	1	75.0-125			10.7		20
(f) Barium			91.1		94.1	100							

Method Blank (MB)

(MB) R3877617-1 12/28/22 15:18

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / -	MB MDA pCi/l
Radium-228	0.129		0.162	0.303
(f) Barium	98.1	U	98.1	
(f) Yttrium	92.5		92.5	

L1557029-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1557029-01 12/28/22 15:18 • (DUP) R3877617-5 12/28/22 15:18

Analyte	Original Result pCi/l	Original Uncertainty + / -	DUP Uncertainty + / -	DUP Result pCi/l	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP RPD Limits %	DUP RER Limit
Radium-228	1.97	0.215	0.303	1.23	0.339	1	46.0	1.98	20	3
(f) Barium	111		113	113						
(f) Yttrium	118		113	113						

Laboratory Control Sample (LCS)

(LCS) R3877617-2 12/28/22 15:18

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	4.01	80.3	80.0-120	
(f) Barium			105		
(f) Yttrium			121		

L1558425-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1558425-11 12/28/22 15:18 • (MS) R3877617-3 12/28/22 15:18 • (MSD) R3877617-4 12/28/22 15:18

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MSD Rec. %	Rec. Limits %	Dilution	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	10.0	2.79	12.5	11.9	91.3	70.0-130	1			4.75		20
(f) Barium		108	111	108	108							
(f) Yttrium		121	115	112	112							

Method Blank (MB)

(MB) R3871568-1 12/08/22 19:08

Analyte	MB Result pCi/l	MB Qualifier + / -	MB Uncertainty + / -	MB MDA pCi/l
URANIUM-234	0.0813	J	0.0704	0.0984
URANIUM-235	0.000675	U	0.0287	0.0586
URANIUM-238	0.0719		0.0498	0.0586
(T) URANIUM-232	52.3		52.3	

L1562249-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1562249-03 12/08/22 19:08 • (DUP) R3871568-5 12/08/22 19:08

Analyte	Original Result uCi/F	Original Uncertainty + / -	Original MDA uCi/F	DUP Result uCi/F	DUP Uncertainty + / -	DUP MDA uCi/F	Dilution	DUP RPD %	DUP RER	DUP RPD Limits %	DUP Qualifier	DUP RER Limit
URANIUM-234	0.000000524	0.000000296	0.000000375	0.000000327	0.000000370	0.000000375	1	46.3	0.416	20	J	3
URANIUM-235	-0.000000032	0.000000118	0.000000242	-0.000000023	0.000000212	0.000000242	1	0.000	0.0381	20	U	3
URANIUM-238	0.000000524	0.000000237	0.000000242	0.000000436	0.000000234	0.000000242	1	18.3	0.264	20		3
(T) URANIUM-232	79.9		69.2	69.2	69.2							

Laboratory Control Sample (LCS)

(LCS) R3871568-2 12/08/22 19:08

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
URANIUM-234	10.1	10.4	103	80.0-120	
URANIUM-238	9.80	11.1	113	80.0-120	
(T) URANIUM-232			53.0		

L1559122-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1559122-06 12/08/22 19:08 • (MS) R3871568-3 12/08/22 19:08 • (MSD) R3871568-4 12/08/22 19:08

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
URANIUM-234	40.2	9.06	46.3	47.9	92.7	96.7	1	75.0-125			3.39		20
URANIUM-238	39.2	4.26	43.5	44.1	100	102	1	75.0-125			1.23		20
(T) URANIUM-232		50.6			47.1	62.7							

WG1964875

Wet Chemistry by Method 2320 B-2011

QUALITY CONTROL SUMMARY

[L1559124-01.02](#)

Method Blank (MB)

(MB) R3865011-2 11/25/22 07:06

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Alkalinity,Carbonate	U		8.45	20.0

Sample Narrative:

BLANK: Endpoint pH 4.5

L1560899-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1560899-06 11/25/22 09:21 • (DUP) R3865011-3 11/25/22 09:26

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity,Carbonate	U	U	1	0.000		20

Sample Narrative:

OS: Endpoint pH 4.5 headspace
DUP: Endpoint pH 4.5



WG1962999

Wet Chemistry by Method 353.2

QUALITY CONTROL SUMMARY

L1559124-01.02

Method Blank (MB)

(MB) R3866150-1	11/29/22 14:46	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Nitrate-Nitrite	U	0.0500	0.100		

L1556155-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1556155-02 11/29/22 14:48 • (DUP) R3866150-3 11/29/22 14:49

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate-Nitrite	0.414	0.406	1	1.95		20

L1559149-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1559149-01 11/29/22 15:17 • (DUP) R3866150-6 11/29/22 15:19

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate-Nitrite	0.0737	0.0711	1	3.59	J	20

Laboratory Control Sample (LCS)

(LCS) R3866150-2 11/29/22 14:47

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Nitrate-Nitrite	2.50	2.55	102	90.0-110	

L1556155-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1556155-02 11/29/22 14:48 • (MS) R3866150-4 11/29/22 14:51 • (MSD) R3866150-5 11/29/22 14:52

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	Dilution	Rec. Limits %	MSD Rec. %	MSD Rec. %	MSD Rec. %	MSD Qualifier	MS Qualifier	RPD %	RPD Limits %
Nitrate-Nitrite	2.50	0.414	3.04	3.01	1	90.0-110	104	105	104			0.992	20

L1559149-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1559149-01 11/29/22 15:17 • (MS) R3866150-7 11/29/22 15:20

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	Dilution	Rec. Limits %	MS Qualifier
Nitrate-Nitrite	2.50	0.0737	2.60	1	90.0-110	

ACCOUNT:

PROJECT:

SDG:

DATE/TIME:

PAGE:

WG1965103

Wet Chemistry by Method 9040C

QUALITY CONTROL SUMMARY

[L1559124-01.02](#)

L1560232-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1560232-02 11/25/22 16:08 • (DUP) R3865110-2 11/25/22 16:08

Analyte	Original Result SU	DUP Result SU	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
pH	7.68	7.70	1	0.260		1

Sample Narrative:

OS: 7.68 at 19.6C
DUP: 7.7 at 19.7C

L1560703-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1560703-01 11/25/22 16:08 • (DUP) R3865110-3 11/25/22 16:08

Analyte	Original Result SU	DUP Result SU	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
pH	7.72	7.70	1	0.259		1

Sample Narrative:

OS: 7.72 at 19.8C
DUP: 7.7 at 19.8C

Laboratory Control Sample (LCS)

(LCS) R3865110-1 11/25/22 16:08

Analyte	Spike Amount SU	LCS Result SU	LCS Rec. %	Rec. Limits %	LCS Qualifier
pH	10.0	9.91	99.1	99.0-101	

Sample Narrative:

LCS: 9.91 at 19.7C



WG1971206

Wet Chemistry by Method 9056A

QUALITY CONTROL SUMMARY

L1559124-01.02

Method Blank (MB)

(MB) R3870756-1 12/08/22 10:53

Analyte	MB Result mg/l	<u>MB Qualifier</u> mg/l	MB MDL mg/l	MB RDL mg/l
Fluoride	U	0.0640	0.0640	0.150

L1565119-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1565119-04 12/08/22 14:15 • (DUP) R3870756-3 12/08/22 14:33

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u> %	DUP RPD Limits %
Fluoride	0.945	0.930	1	1.63		15

L1565129-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1565129-02 12/08/22 17:32 • (DUP) R3870756-6 12/08/22 17:50

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u> %	DUP RPD Limits %
Fluoride	0.239	0.255	1	6.44		15

Laboratory Control Sample (LCS)

(LCS) R3870756-2 12/08/22 11:11

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Fluoride	8.00	7.74	96.7	80.0-120	

L1565119-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1565119-04 12/08/22 14:15 • (MS) R3870756-4 12/08/22 14:51 • (MSD) R3870756-5 12/08/22 15:45

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u> %	<u>MSD Qualifier</u> %	RPD %	RPD Limits %
Fluoride	5.00	0.945	5.77	5.76	96.6	96.3	1	80.0-120		0.222		15

L1565129-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1565129-02 12/08/22 17:32 • (MS) R3870756-7 12/08/22 18:08

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>
Fluoride	5.00	0.239	4.95	94.1	1	80.0-120	

Method Blank (MB)

(MB) R3871050-1 12/12/22 10:03

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Sulfate	0.811	J	0.594	5.00

L1559122-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1559122-03 12/12/22 18:04 • (DUP) R3871050-3 12/12/22 18:16

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Sulfate	271	271	5	0.120		15

L1565565-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1565565-08 12/12/22 20:49 • (DUP) R3871050-6 12/12/22 21:02

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Sulfate	386	373	5	3.55		15

Laboratory Control Sample (LCS)

(LCS) R3871050-2 12/12/22 10:16

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Sulfate	40.0	38.7	96.7	80.0-120	

L1564962-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1564962-01 12/12/22 19:33 • (MS) R3871050-4 12/12/22 19:46 • (MSD) R3871050-5 12/12/22 19:58

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Sulfate	50.0	38.7	86.5	87.1	95.7	96.9	1	80.0-120		0.688		15

L1566271-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L1566271-03 12/12/22 21:40 • (MS) R3871050-7 12/12/22 21:53

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Sulfate	50.0	2.97	52.6	99.3	1	80.0-120	

Method Blank (MB)

(MB) R3864456-1 11/23/22 10:21

Analyte	MB Result mg/l	MB MDL mg/l	MB RDL mg/l
Mercury	U	0.000100	0.000200

Laboratory Control Sample (LCS)

(LCS) R3864456-2 11/23/22 10:23

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.00300	0.00278	92.5	80.0-120	

L1559124-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1559124-01 11/23/22 10:25 • (MS) R3864456-3 11/23/22 10:27 • (MSD) R3864456-4 11/23/22 10:29

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.00300	U	0.00315	105	96.7	1	75.0-125		8.13	20	



WG1973503

Metals (ICP) by Method 6010B

QUALITY CONTROL SUMMARY

L1559124-01.02

Method Blank (MB)

(MB) R3872373-1 12/15/22 12:39

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Antimony	U	0.00430	0.0100	0.0100
Arsenic	U	0.00440	0.0100	0.0100
Barium	U	0.000736	0.00500	0.00500
Beryllium	U	0.000330	0.00200	0.00200
Cadmium	U	0.000479	0.00200	0.00200
Calcium	U	0.0793	1.00	1.00
Chromium	U	0.00140	0.0100	0.0100
Copper	U	0.00368	0.0100	0.0100
Iron	U	0.0180	0.100	0.100
Lead	U	0.00299	0.00600	0.00600
Magnesium	U	0.0853	1.00	1.00
Manganese	U	0.000934	0.0100	0.0100
Nickel	U	0.00161	0.0100	0.0100
Potassium	U	0.261	2.00	2.00
Selenium	U	0.00735	0.0100	0.0100
Sodium	U	0.504	3.00	3.00
Thallium	U	0.00431	0.0100	0.0100
Vanadium	U	0.00499	0.0200	0.0200
Zinc	U	0.00652	0.0500	0.0500

Laboratory Control Sample (LCS)

(LCS) R3872373-2 12/15/22 12:41

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Antimony	1.00	0.974	97.4	80.0-120	
Arsenic	1.00	0.932	93.2	80.0-120	
Barium	1.00	0.947	94.7	80.0-120	
Beryllium	1.00	0.958	95.8	80.0-120	
Cadmium	1.00	0.963	96.3	80.0-120	
Calcium	10.0	9.76	97.6	80.0-120	
Chromium	1.00	0.969	96.9	80.0-120	
Copper	1.00	0.973	97.3	80.0-120	
Iron	10.0	9.68	96.8	80.0-120	
Lead	1.00	0.978	97.8	80.0-120	
Magnesium	10.0	9.56	95.6	80.0-120	
Manganese	1.00	0.953	95.3	80.0-120	
Nickel	1.00	0.997	99.7	80.0-120	
Potassium	10.0	9.56	95.6	80.0-120	

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WG1973503

Metals (ICP) by Method 6010B

QUALITY CONTROL SUMMARY

L1559124-01.02

Laboratory Control Sample (LCS)

(LCS) R3872373-2 12/15/22 12:41

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Selenium	1.00	0.941	94.1	80.0-120	
Sodium	10.0	10.0	100	80.0-120	
Thallium	1.00	0.984	98.4	80.0-120	
Vanadium	1.00	0.966	96.6	80.0-120	
Zinc	1.00	0.971	97.1	80.0-120	

L1559124-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1559124-02 12/15/22 12:44 • (MS) R3872373-4 12/15/22 12:49 • (MSD) R3872373-5 12/15/22 12:51

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Antimony	1.00	0.00691	0.992	1.00	98.5	99.6	1	75.0-125		1.02	1.02	20
Arsenic	1.00	0.172	1.12	1.11	94.6	94.2	1	75.0-125		0.321	0.321	20
Barium	1.00	0.0533	1.02	1.03	96.4	97.5	1	75.0-125		1.06	1.06	20
Beryllium	1.00	U	0.956	0.953	95.6	95.3	1	75.0-125		0.271	0.271	20
Cadmium	1.00	0.000756	0.978	0.978	97.7	97.7	1	75.0-125		0.0345	0.0345	20
Calcium	10.0	123	133	132	101	94.5	1	75.0-125		0.455	0.455	20
Chromium	1.00	0.00212	0.959	0.960	95.7	95.8	1	75.0-125		0.160	0.160	20
Copper	1.00	0.122	1.12	1.13	99.7	101	1	75.0-125		0.876	0.876	20
Iron	10.0	4.61	14.3	14.1	96.5	95.4	1	75.0-125		0.798	0.798	20
Lead	1.00	0.0449	1.03	1.02	98.0	97.5	1	75.0-125		0.570	0.570	20
Magnesium	10.0	65.3	74.8	74.3	94.7	89.4	1	75.0-125		0.721	0.721	20
Manganese	1.00	0.110	1.05	1.06	94.0	94.6	1	75.0-125		0.615	0.615	20
Nickel	1.00	0.474	1.47	1.47	99.9	100	1	75.0-125		0.0922	0.0922	20
Potassium	10.0	7.57	17.1	17.1	95.7	94.9	1	75.0-125		0.492	0.492	20
Selenium	1.00	U	0.958	0.961	95.8	96.1	1	75.0-125		0.278	0.278	20
Sodium	10.0	28.4	37.8	38.1	93.4	96.7	1	75.0-125		0.870	0.870	20
Thallium	1.00	0.00679	1.02	1.01	101	101	1	75.0-125		0.267	0.267	20
Vanadium	1.00	U	0.986	0.985	98.6	98.5	1	75.0-125		0.0351	0.0351	20
Zinc	1.00	0.545	1.50	1.49	95.7	95.0	1	75.0-125		0.441	0.441	20

WG1988004

Metals (ICPMS) by Method 6020

QUALITY CONTROL SUMMARY

L1559124-01.02

Method Blank (MB)

(MB) R3880888-1 01/13/23 15:03

Analyte	MB Result mg/l	MB Qualifier mg/l	MB MDL mg/l	MB RDL mg/l
Uranium	U	0.0000789	0.00100	0.00100

Laboratory Control Sample (LCS)

(LCS) R3880888-2 01/13/23 15:06

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Uranium	0.0500	0.0528	106	80.0-120	

L1575372-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1575372-01 01/13/23 15:09 • (MS) R3880888-4 01/13/23 15:16 • (MSD) R3880888-5 01/13/23 15:19

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	Dilution	Rec. Limits %	MS Qualifier %	MSD Qualifier %	RPD %	RPD Limits %
Uranium	0.0500	U	0.0529	0.0522	1	75.0-125	106	104	1.35	20

1	Cf
2	Tc
3	Ss
4	Cr
5	Sr
6	Qc
7	Gl
8	Al
9	Sc

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GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

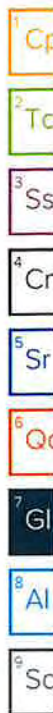
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDA	Minimum Detectable Activity.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RER	Replicate Error Ratio.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
(T)	Tracer - A radioisotope of known concentration added to a solution of chemically equivalent radioisotopes at a known concentration to assist in monitoring the yield of the chemical separation.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
O1	The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.
T8	Sample(s) received past/too close to holding time expiration.
U	Below Detectable Limits: Indicates that the analyte was not detected.



ACCREDITATIONS & LOCATIONS

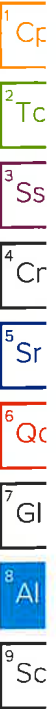
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



APPENDIX E

STATISTICAL ANALYSIS OF AMBIENT GROUNDWATER DATA



MEMORANDUM

TO: Kathy Weinel (Energy Fuels Resources [USA] Inc.)

FROM: INTERA Incorporated

DATE: April 8, 2024

RE: Technical Memorandum in Support of Statistical Analysis of All Constituents with an Established Numeric AWQS and Uranium in POC #1, POC #2, POC #3, and POC #4 at the Pinyon Plain Mine

Introduction

The State of Arizona has granted Energy Fuels Resources (USA) Inc. (EFRI) an Aquifer Protection Permit (Number P-100333) for the Pinyon Plain Mine located in Coconino County, Arizona (Site). The Site Aquifer Protection Permit (APP) requires groundwater monitoring at point of compliance (POC) wells within the Coconino (POC #1-3) and Redwall-Muav aquifers (POC #4). The APP stipulates that alert levels (ALs) for each POC well shall be calculated based on ambient groundwater concentrations of constituents listed in the Aquifer Water Quality Standards (AWQS) within the Arizona Administrative Code (R18-11-406). In addition, ambient groundwater concentrations of uranium shall be calculated in a manner similar to AWQS constituents. The APP provides a formula for calculating AL values that is valid for normally distributed datasets, and states that other valid statistical methods can be used to calculate AL values. In addition to normal distributions, parametric datasets include log normal and gamma distributions (USEPA, 2015). Therefore, the statistical approach for normal distributions can be applied to datasets that fit log normal and gamma distributions. The statistical analysis and calculation of AL values and ambient data (for uranium) described in this memorandum follows the APP formula for parametric distributions (normal, log normal, and gamma) and a different statistical method for nonparametric distributions (details provided below).

In addition to ALs, the Site APP stipulates that each POC well requires an Aquifer Quality Limit (AQL) for each AWQS constituent plus uranium and field pH. Uranium and field pH are not included among the AWQS constituents, so they are evaluated relative to the United States Environmental Protection Agency (USEPA) Maximum Contaminant Level of 0.03 milligrams per liter (mg/L) and National Secondary Drinking Water Regulations of acceptable field pH ranges between 6.5 to 8.5, respectively (USEPA, 2024a; USEPA, 2024b). When calculated AL values are less than the AWQS value (or 0.03 mg/L in the case of uranium and above or below the range of 6.5 to 8.5 for field pH), the AQL shall be set equal to the AWQS. When calculated AL values are greater than the AWQS value (or 0.03 mg/L in the case of uranium and above or below the range of 6.5 to 8.5 for field pH), the AQL shall be set equal to the AL value and no AL value shall be set for that constituent at the given POC well.

Groundwater concentration data used to determine ambient groundwater conditions requires data review and statistical analysis before calculating regulatory limits. The industry standard for evaluating ambient groundwater concentrations is to follow statistical guidance provided by the USEPA (2009,

2015). This guidance (USEPA Guidance) was followed to provide summary statistics, distribution, outlier, and trend analysis for all constituents with an established numeric AWQS plus uranium and field pH in POC wells POC #1 (MW-01), POC #2 (MW-02), POC #3 (MW-03), and POC #4 (RW-01) at the Site. The statistical analysis was performed in both R (v. 4.1.3) and ProUCL (v. 5.1). Results from statistical analyses determined the approach for calculating AL values. Datasets for all constituents with an established numeric AWQS plus uranium and field pH were provided by EFRI and statistical analysis was performed on the datasets for those constituents. Data used for the analyses are included in **Appendix A**. Details about each statistical method are provided in the next section. An AL was previously calculated for arsenic and AQLs were previously calculated for arsenic and uranium in POC #4 in 2022.

Statistical Methods

The Site APP states that the following criteria must be met before groundwater concentration data can be used for calculating AL values:

- The laboratory practical quantitation limit (PQL) for each data point must be below 80% of the AWQS value (or 0.03 mg/L in the case of uranium).
- At least eight different data points from independent sampling events must exist for a given sampling location.
- Values below the laboratory minimum detection limit (MDL) must be reported as “less than” the PQL. These values are often referred to as censored or non-detect (ND) values. These ND values shall be replaced with one-half the MDL for statistical analysis when the proportion of ND values is less than 50% of the total dataset.

Summary statistics and distribution tests were performed on datasets of constituents with an established numeric AWQS as well as uranium and field pH in POC #1, POC #2, POC #3, and POC #4. Additional recent POC #4 datasets representing data from 2017 through 2023 were evaluated separately. Results are summarized in **Tables 1** through **5**. Summary statistics and parametric distribution test results for datasets with NDs > 50% are not listed in **Tables 1** through **5** because USEPA Guidance states that these datasets are better suited for nonparametric methods. Distribution tests were performed before and after removal of extreme outliers (described below). Distribution tests were the Shapiro-Wilk Test (SW test) for normality and log normality and the Kolmogorov-Smirnov Test (KS test) for gamma distribution (USEPA, 2009, 2015). The SW test statistic (w) is reported along with the p-value in **Tables 1** through **5**. The null hypothesis being tested with the SW test is that the dataset comes from an underlying normally or lognormally distributed population. If the p-value is less than the chosen significance level (0.05 in this analysis) then the null hypothesis is rejected, and the alternative hypothesis is accepted. The alternative hypothesis in this case is that the underlying population is not normal or not lognormal. The KS test statistic (D) and associated critical value are also reported in **Tables 1** through **5**. When the critical value is greater than the KS test statistic, the dataset is believed to fit a gamma distribution model (USEPA, 2015). Data distributions that are not determined to fit normal, log normal, or gamma are considered as nonparametric distributions. The datasets evaluated contained percentages of non-detects ranging from 0 to 72 percent with distributions determined through both parametric (normal, lognormal, gamma) and nonparametric tests. Only datasets with <50% NDs are tabulated (**Tables 1** through **5**). Distribution test results for datasets where only one unique value was detected are not reported because ProUCL is unable to perform distribution tests on these datasets (**Tables 1** through **5**).

The USEPA Guidance recommends testing datasets for outliers and removing outliers only when they exhibit much higher or lower concentrations than the rest of the dataset. Automated removal of outliers is not recommended. Instead, outliers should be evaluated on a case-by-case basis. The USEPA Guidance recommends two outlier tests: Dixon's test, which is best for smaller datasets, and Rosner's test, which is better for larger datasets. Dixon's test or Rosner's test was performed on POC #1, POC #2, POC #3, and POC #4 data using ProUCL software. Both outlier tests assume that the dataset without the suspected outliers is normally distributed, though the ProUCL software performs the analysis regardless of the distribution type. In addition, outliers were evaluated with boxplots, timeseries plots, and probability plots generated in R (**Figures 1 through 36**). **Figures 1 through 36** show the information considered for each dataset that contains potential outliers prior to and after the decision to remove extreme outliers.

In boxplots used for outlier analysis (**Figures 1 through 36**), outliers are shown as open circles and extreme outliers are shown as stars. Extreme outliers are those greater than the value representing the 75th quartile plus three times the interquartile range, or lower than the value representing the 25th quartile minus three times the interquartile range. Probability plots were also used to evaluate outliers. The probability plots (**Figures 1 through 36**) show theoretical quantiles on the x-axis, assuming a normal or log normal distribution, and sample quantiles on the y-axis. The probability plots also show a theoretical normal distribution regression line. Generally, most of the measured results plot near this line, whether they form a linear pattern or not. Outliers tend to plot farther from this line than the rest of the dataset. Probability plots were used to evaluate outliers, as well as to provide a visualization of whether the dataset fits a normal or log normal distribution model. Timeseries plots were used to evaluate outliers with respect to increasing or decreasing trends in concentrations over time. If a potential outlier was part of a trend, the value was retained for analysis (e.g., POC#1 uranium; **Figure 3**). Timeseries plots for the full datasets for each constituent in each well are included in **Appendix B**.

Outliers were evaluated on a case-by-case basis considering the results of the outlier test performed in ProUCL, boxplots, and probability plots. Outliers that were not part of a trend were removed when all of the following criteria were met: (1) outliers appeared to be extreme in boxplots; (2) outliers appeared to be extreme in probability plots; and (3) the results from Rosner's or Dixon's test indicated the value is an outlier at the 1% significance level. In POC #1, one extreme outlier in field pH was identified and removed, as indicated in **Table 1**. In POC #2, one extreme outlier in each of the arsenic, barium, field pH, fluoride, gross alpha minus Rn and U, nickel, and combined radium-226 and radium-228 datasets were identified and removed, as indicated in **Table 2**. In POC #3, one extreme outlier in the barium and field pH datasets have been identified and removed, as indicated in **Table 3**. In the full POC #4 datasets, two extreme outliers were removed from each of the barium, field pH, gross alpha minus Rn and U datasets, and one from the fluoride dataset was identified and removed, as indicated in **Table 4**. In the recent POC #4 datasets (2017-2023), two extreme outliers were removed from field pH and one from fluoride, as indicated in **Table 5**. Results for all calculations with and without the extreme outliers removed are provided in **Tables 1 through 5** and **Figures 1 through 36**. The same distribution tests described above were applied to datasets before and after extreme outliers were removed.

The USEPA Guidance recommends the Mann-Kendall (MK) test for evaluating trends in concentration over time. This test is appropriate for both parametric and nonparametric datasets and should occur after extreme outliers are removed. The MK test was performed on POC #1, POC #2, POC #3, and POC #4 data using R and ProUCL software. Results are included in **Tables 1 through 5** with the test statistic

(S) and p-value. Positive and negative S values indicate an increasing and decreasing trend, respectively. The dataset is considered to be trending significantly when p-values are less than 0.05 (USEPA, 2009). The MK test is valuable for determining whether there is a significant increasing or decreasing trend, but it does not provide the rate of change. The trend test results are supported with timeseries plots for all POC #1, POC #2, POC #3, and POC #4 datasets (**Appendix B**).

Trend analysis results for POC #1, POC #2, POC #3, and POC #4 are shown in **Tables 1** through **5**. MK test results for POC #1 suggest significant increasing or decreasing trends in 8 constituents; antimony, arsenic, barium, fluoride, gross alpha minus Rn and U, nickel, thallium, and uranium.¹ In POC #2, significant decreasing trends were identified in thallium and uranium and no other significant trends were identified in the remaining datasets. For POC #3, significant decreasing trends were identified in barium and thallium; a significant trend was not identified in any other datasets. For all POC #4 data, significant decreasing trends were identified in barium and nitrate + nitrite as N, and a significant increasing trend was identified in selenium and combined radium-226 and radium-228; a significant trend was not identified in the remaining datasets. For recent POC #4 data, a significant decreasing trend was identified in barium and significant increasing trends were identified in lead, nickel², and selenium; with no other significant trends identified. Given that there is no significantly increasing trend in combined radium-226 and radium-228 for recent POC #4 data, the significantly increasing trend in all POC #4 data likely reflects an anomalously low first historical data point (2.4 pCi/L) that may be due to the relatively high laboratory error for radium-226 and radium-228 (EPA, 1980; EPA, 2022).

MK Test results showing significant increasing and decreasing trends for datasets with a relatively high percentage of non-detects may be due to a reporting limit change in the data brought on by a change in laboratories. Lead and selenium in recent POC #4 data show an increase in the reporting limit after laboratories were changed which has led to falsely identified significant increasing trends. Apparent trends in well concentrations over time may result from a stabilization period following new well installation, site-wide changes in the aquifer, and/or seasonal fluctuations (USEPA, 2009). Calculations of ambient groundwater concentrations at a site usually focus on various estimates of the upper limits of a dataset, which can be challenging to estimate when trends are observed. Wells that display significant trends may require more frequent updates to ambient groundwater concentrations (USEPA, 2009). As a result, a modified approach to determining AL values for these constituents may be warranted.

Alert Levels and Aquifer Quality Limits

The AL values required for the Site APP are limits that the USEPA Guidance generally refers to as Background Threshold Values (BTVs). These are estimates of the upper limits of a dataset for compliance purposes, the most common of which are the mean plus two standard deviations or the upper tolerance limit (UTL). The UTL is a confidence limit on a percentile of the population. Typically, the UTL is chosen as the confidence limit of the 95th percentile calculated at the 95% confidence level (95UTL). In other words, at least 95% of the population will be less than the calculated 95UTL value with 95% confidence. The calculation of 95UTL is based on the distribution type (e.g., normal, log normal, gamma,

¹ Observed increasing and decreasing trends in POC wells may be due to natural phenomenon resulting from pumping, therefore potential for changes in concentrations may be expected with changes to pumping at the Site, per Section 2.6.2.3.2 of the APP.

² Elevated nickel concentrations in POC #4 are likely the result of a replacement pump installed during March of 2023.

nonparametric). The 95UTL calculation for a normal distribution is the same as the formula provided in the Site APP for the AL calculation ($AL = M + KS$, where M = mean, S = standard deviation, and K = one-sided normal tolerance interval at the 95% confidence level). This calculation is appropriate for datasets that fit a normal distribution but may underestimate or overestimate datasets that fit other distribution types. In particular, the $AL = M + KS$ calculation may be inappropriate for nonparametric distributions.

The ProUCL output includes the 95UTL value for normal, log normal, gamma, and nonparametric distributions, regardless of whether the dataset fits any one of these distribution types. The BTVs shown for POC #1, POC #2, POC #3, and POC #4 in **Tables 6** through **10** include the following, depending on the distribution of the dataset: (1) $M + KS$; (2) mean plus two standard deviations; and (3) normal, lognormal, gamma, or nonparametric 95UTL. The K value for the $AL = M + KS$ calculation was obtained from ProUCL. Alternatively, the K value can be obtained directly or estimated from Table 17-3 in the USEPA Guidance (2009) or from Lieberman (1957). Each of the possible AL values are shown in **Tables 6** through **10** and the most appropriate is based on Site APP guidelines or the distribution type for the given dataset. The most appropriate AL values for each dataset are highlighted in green in **Tables 6** through **10**.

The AL s for constituents in POC #1, POC #2, POC #3, and POC #4 were determined by following the processes stipulated in the APP. Datasets with greater than 50 percent non-detects were assigned an AL value of 80 percent of the AWQS (**Tables 6** through **10**). The full datasets with and without extreme outliers removed are shown in **Tables 6** through **10** for comparison purposes, but datasets with extreme outliers should not be used to calculate AL values or, in the case of uranium, the ambient data, according to the Site APP guidelines. For datasets that follow a parametric distribution, it is recommended that the AL or ambient data be calculated as the greater of the $AL = M + KS$ value or 80% of the AWQS (or 0.03 mg/L standard for uranium). For nonparametric datasets, the greater of the nonparametric UTL or 80% of the AWQS (or 0.03 mg/L standard for uranium) is recommended (**Tables 6** through **10**).

The AQL for constituents in each well is shown in **Tables 6** through **10**. These values were determined according to the Site APP guidelines. When calculated AL values or, in the case of uranium, the ambient data, were less than the AWQS value (or 0.03 mg/L in the case of uranium), the AQL was set equal to the AWQS (or 0.03 mg/L in the case of uranium). When calculated AL values or, in the case of uranium, the ambient data, were greater than the AWQS value (or 0.03 mg/L in the case of uranium), the AQL was set equal to the AL value. In these cases, no AL would be set for a given constituent in the given POC well.

Summary and Conclusions

The Site APP requires groundwater monitoring at POC wells, and each POC well requires an AL and/or an AQL calculation for constituents listed among the AWQS plus uranium and field pH. Statistical analysis was performed on the datasets for constituents with an established numeric AWQS and uranium in POC wells POC #1, POC #2, POC #3, and POC #4 provided by the client and all datasets were used to calculate AL s and AQLs, where appropriate. USEPA Guidance was followed to provide summary statistics, distribution, outlier, and trend analysis prior to calculating AL s and/or AQLs (USEPA, 2009, 2015). The statistical analysis and calculation of AL and/or AQL values described in this memorandum follows the Site APP formula for parametric distributions and a slightly different method for nonparametric distributions. Wells that display significant increasing trends may require more frequent updates to ambient groundwater concentrations (USEPA, 2009). As a result, a modified approach to determining AL

and/or AQL values or, in the case of uranium, ambient data, may be warranted, per Section 2.6.2.3.2 of the APP.

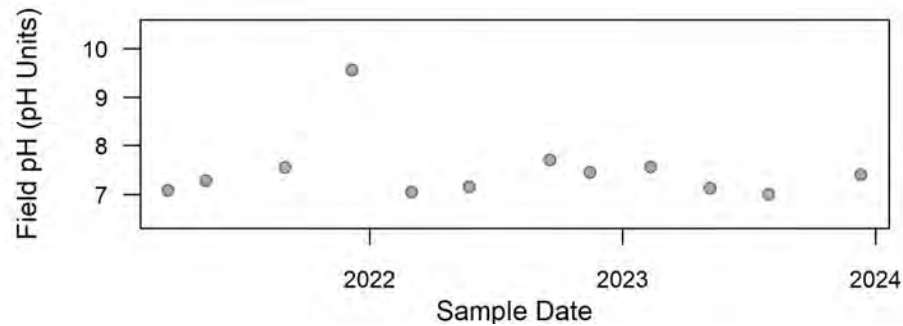
The most appropriate AL and AQL values for constituents with an established numeric AWQS and field pH in POC #1, POC #2, POC #3, and POC #4 are shown in **Tables 6** through **10**. The AL for datasets containing 50% and below NDs was calculated as the greater of the $AL = M + KS$ value or 80% of the AWQS (or 0.03 mg/L standard for uranium). The AQL for these datasets was set equal to the AWQS if the AL was less than the AWQS (or 0.03 mg/L in the case of uranium) and was set equal to the AL if the AL was greater than the AWQS (or 0.03 mg/L in the case of uranium). When the AQL equals the AWQS, no AL is to be set for the constituent in the given POC well. The AL for datasets containing greater than 50% NDs was calculated as 80% of the AWQS and the AQL was set equal to the AWQS.

References

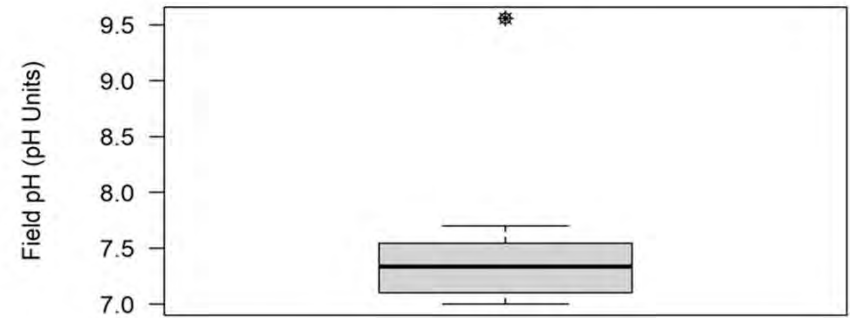
- Lieberman, G.J. 1957. Tables for One-sided Statistical Tolerance Limits. Technical Report No. 34, Applied Mathematics and Statistics Laboratory, Stanford University, Stanford, California. November 1, 1957.
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- _____. 2024a. National Primary Drinking Water Regulations. Retrieved March 25, 2024, from <https://www.epa.gov/ground-water-and-drinking-water/national-primary-drinking-water-regulations>
- _____. 2024b. Secondary Drinking Water Standards: Guidance for Nuisance Chemicals. Retrieved March 25, 2024, from <https://www.epa.gov/sdwa/secondary-drinking-water-standards-guidance-nuisance-chemicals>

Figures

Timeseries



Boxplot



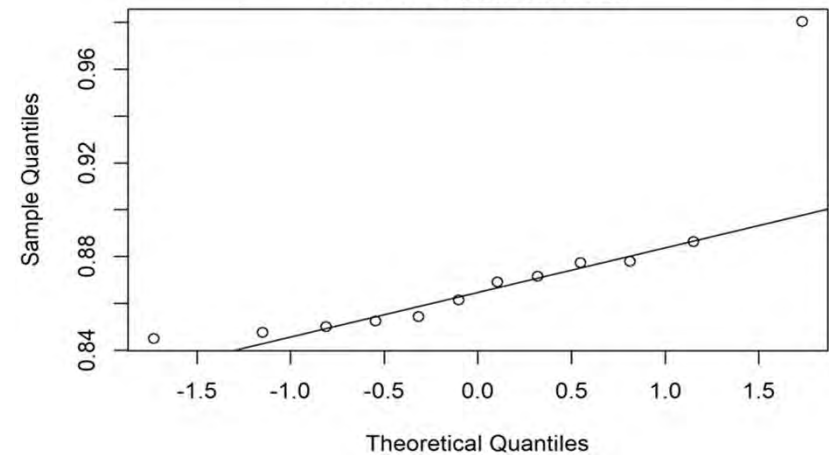
Percent nondetect: 0%
 Min: 7, Mean: 7.49, Max: 9.558, Std Dev: 0.69
 Upper extreme threshold (Q75 + 3xH): 8.84
 Lower extreme threshold (Q25 - 3xH): 5.8125

ProUCL Outlier Test

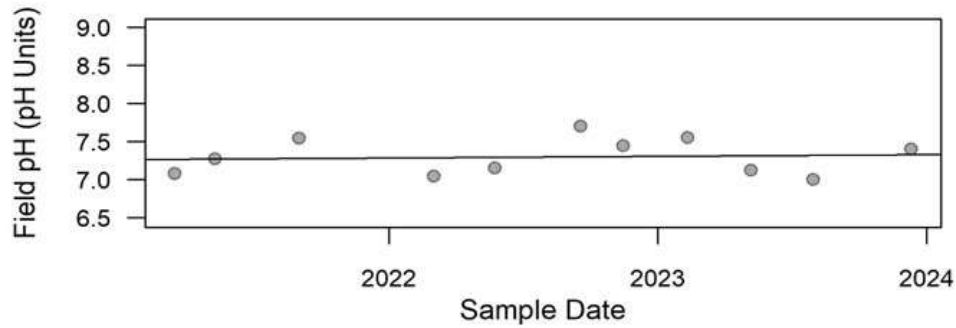
Dixon's Outlier Test for Field pH	
Total N =	12
Number NDs =	0
Number Detects =	12
Number Data (n) =	12
10% critical value:	0.49
5% critical value:	0.546
1% critical value:	0.642
Note: NDs replaced by DL/2 in Outlier Test	
1. Data Value 9.558 is a Potential Outlier (Upper Tail)?	
Test Statistic:	0.797
For 10% significance level, 9.558 is an outlier.	
For 5% significance level, 9.558 is an outlier.	
For 1% significance level, 9.558 is an outlier.	

Probability Plot

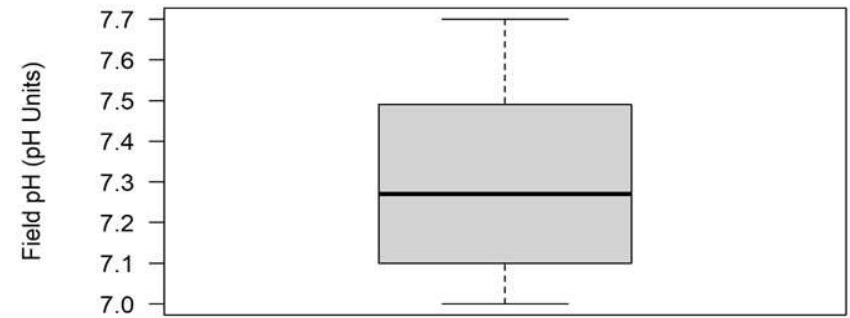
Q-Q plot of all results for Field pH (pH Units) in MW-01
 Percent nondetect: 0%



Timeseries



Boxplot



Percent nondetect: 0%
Min: 7, Mean: 7.3, Max: 7.7, Std Dev: 0.24
Upper extreme threshold (Q75 + 3xH): 8.66
Lower extreme threshold (Q25 - 3xH): 5.93

Probability Plot

Q-Q plot of all results for Field pH (pH Units) in MW-01
Percent nondetect: 0%

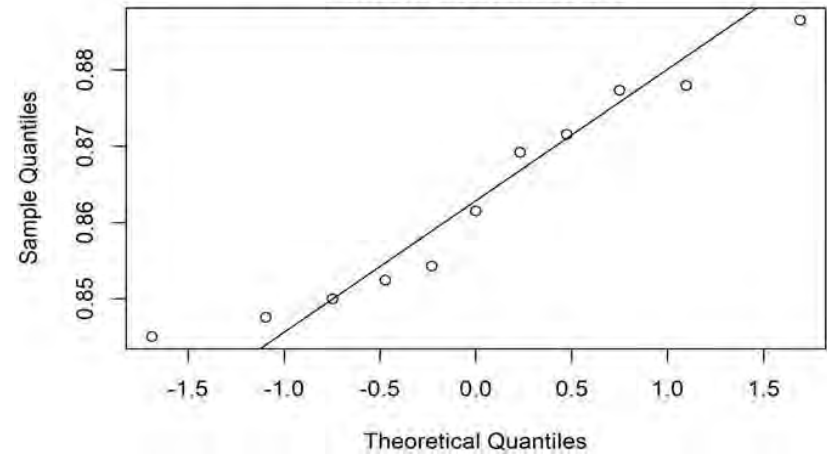
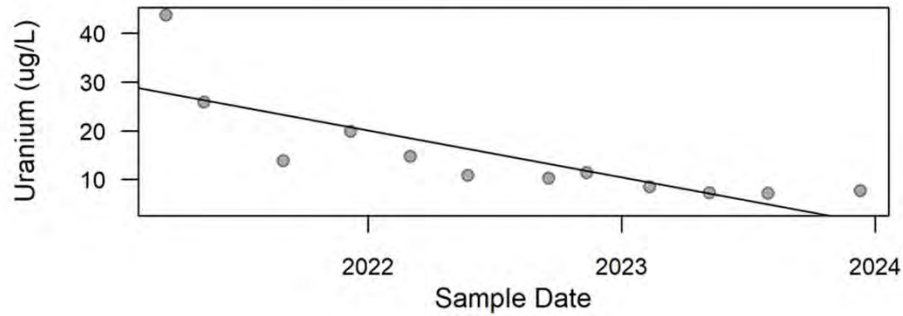
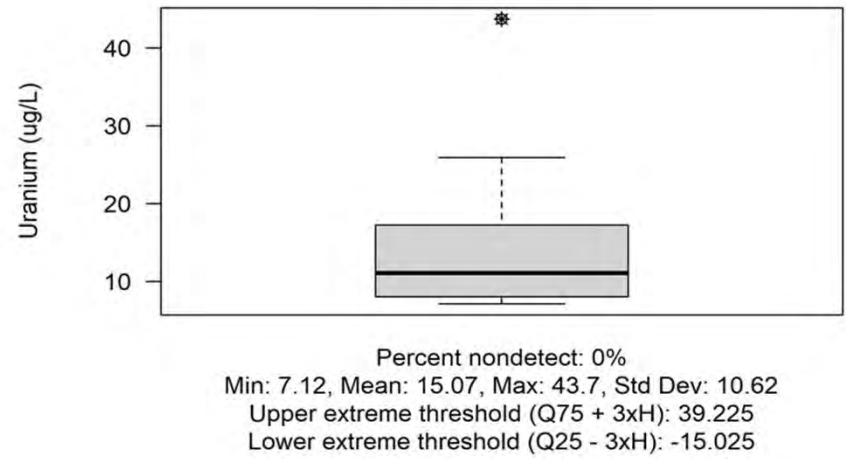


Figure 2
Statistical Results: Field pH
(extreme 1 removed)
Pinyon Plain Mine – POC #1

Timeseries



Boxplot



ProUCL Outlier Test

Dixon's Outlier Test for Uranium	
Total N = 12	
Number NDs = 0	
Number Detects = 12	
Number Data (n) = 12	
10% critical value: 0.49	
5% critical value: 0.546	
1% critical value: 0.642	
Note: NDs replaced by DL/2 in Outlier Test	
1. Data Value 43.7 is a Potential Outlier (Upper Tail)?	
Test Statistic: 0.655	
For 10% significance level, 43.7 is an outlier.	
For 5% significance level, 43.7 is an outlier.	
For 1% significance level, 43.7 is an outlier.	
2. Data Value 7.12 is a Potential Outlier (Lower Tail)?	
Test Statistic: 0.028	
For 10% significance level, 7.12 is not an outlier.	
For 5% significance level, 7.12 is not an outlier.	
For 1% significance level, 7.12 is not an outlier.	

Probability Plot

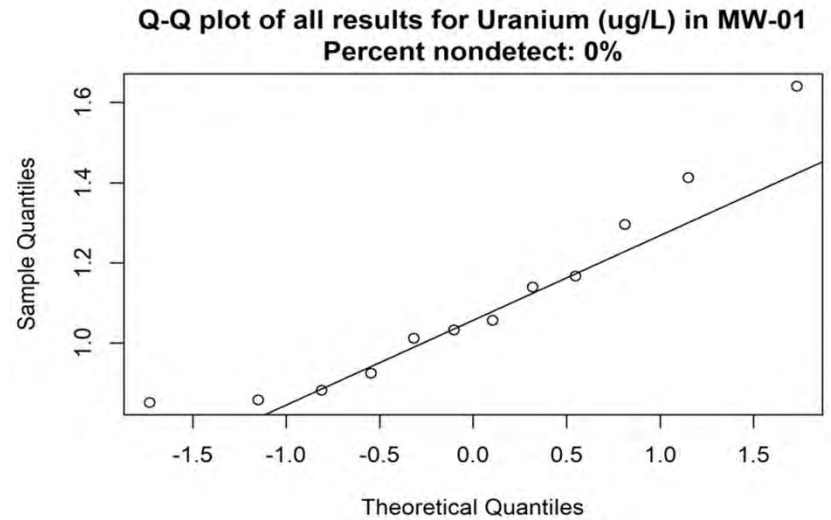
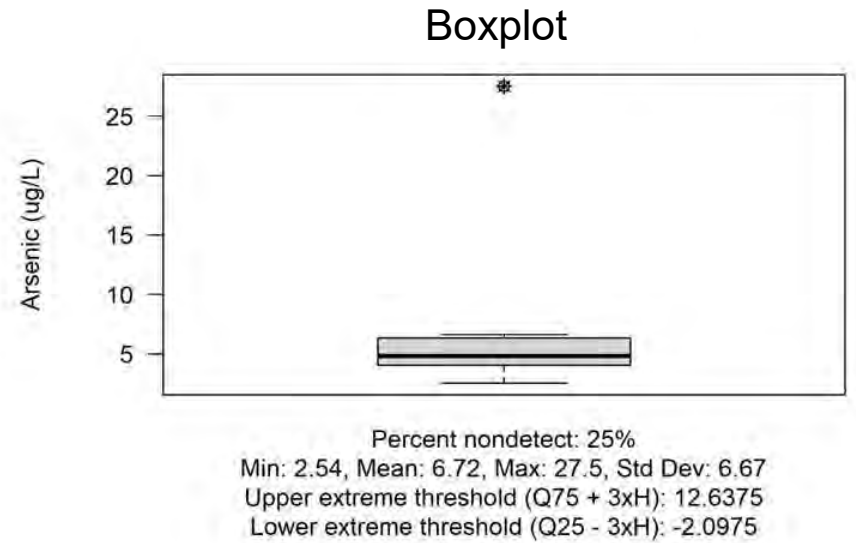
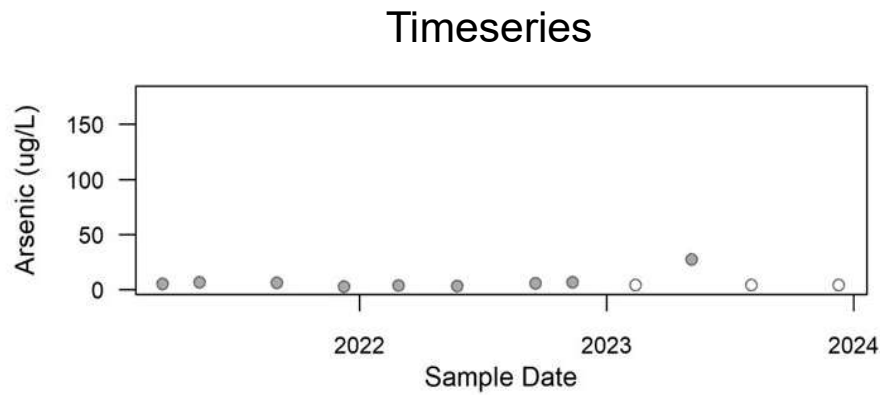


Figure 3
 Statistical Results: Uranium
 Pinyon Plain Mine – POC #1



ProUCL Outlier Test

Dixon's Outlier Test for Arsenic	
Total N =	12
Number NDs =	3
Number Detects =	9
Number Data (n) =	12
10% critical value:	0.49
5% critical value:	0.546
1% critical value:	0.642
Note: NDs replaced by DL/2 in Outlier Test	
1. Data Value 27.5 is a Potential Outlier (Upper Tail)?	
Test Statistic:	0.834
For 10% significance level, 27.5 is an outlier.	
For 5% significance level, 27.5 is an outlier.	
For 1% significance level, 27.5 is an outlier.	
2. Data Value 2.2 is a Potential Outlier (Lower Tail)?	
Test Statistic:	0.000
For 10% significance level, 2.2 is not an outlier.	
For 5% significance level, 2.2 is not an outlier.	
For 1% significance level, 2.2 is not an outlier.	

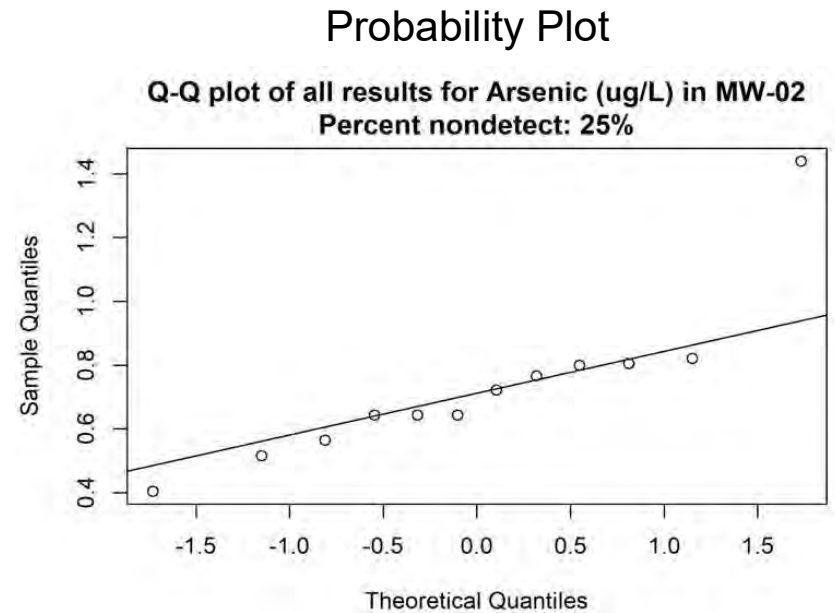
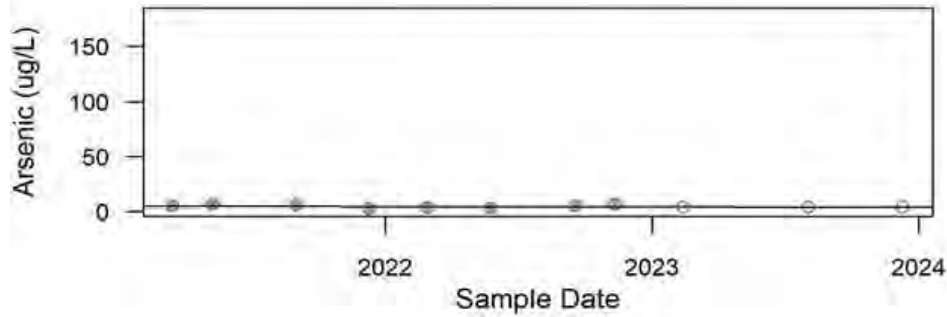
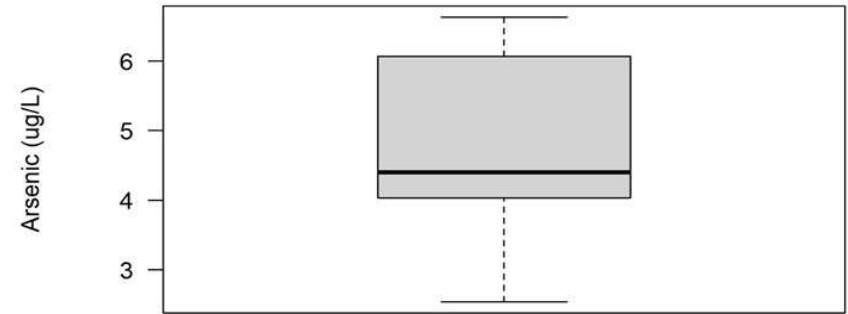


Figure 4
 Statistical Results: Arsenic (all data)
 Pinyon Plain Mine – POC #2

Timeseries



Boxplot



Percent nondetect: 27%
Min: 2.54, Mean: 4.83, Max: 6.63, Std Dev: 1.36
Upper extreme threshold (Q75 + 3xH): 12.175
Lower extreme threshold (Q25 - 3xH): -2.07

Probability Plot

Q-Q plot of all results for Arsenic (ug/L) in MW-02
Percent nondetect: 27.27%

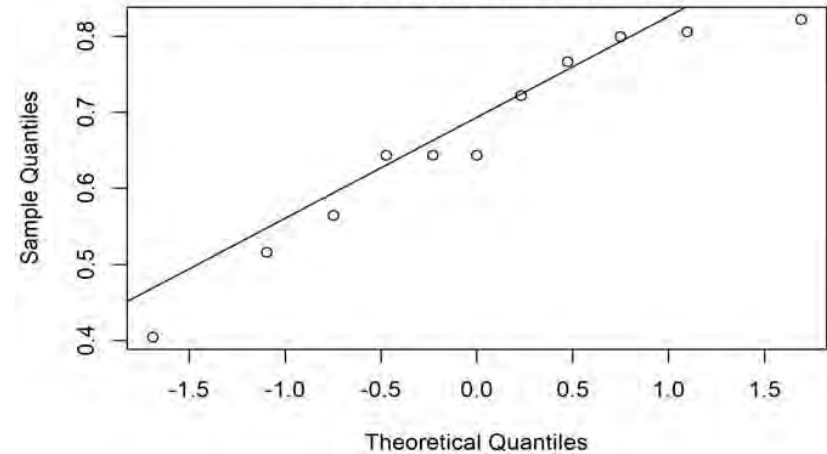
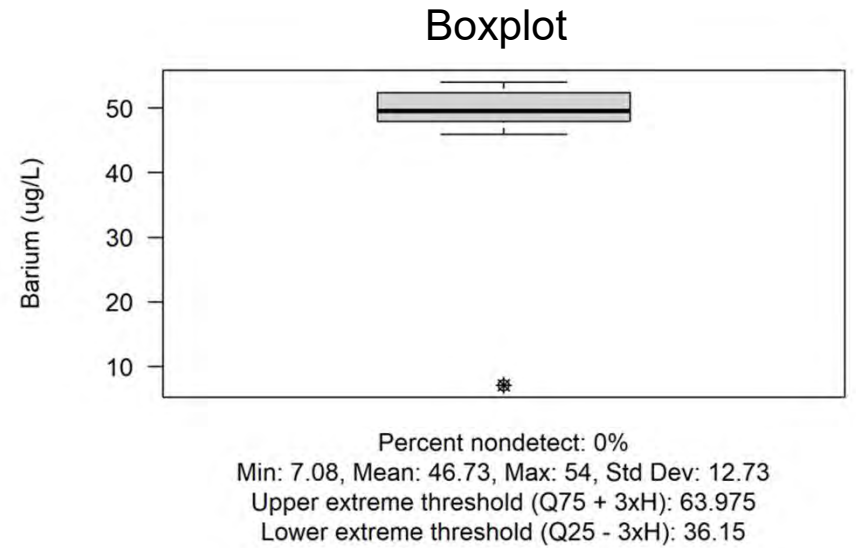
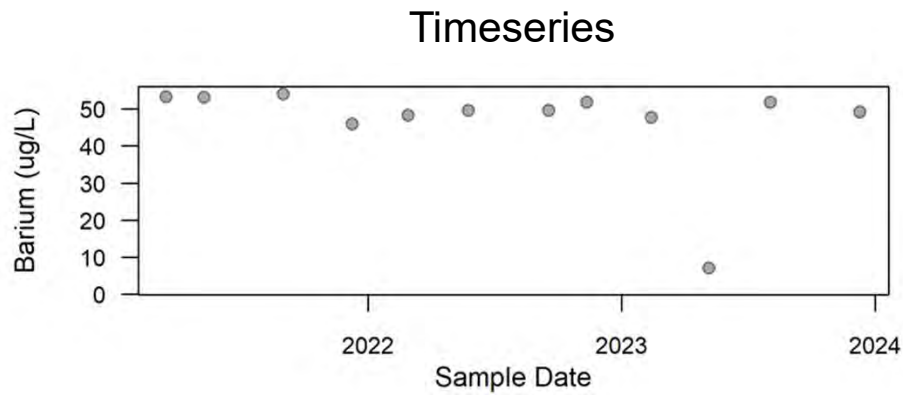


Figure 5

Statistical Results: Arsenic
(extreme 1 removed)
Pinyon Plain Mine – POC #2



ProUCL Outlier Test

Dixon's Outlier Test for Barium	
Total N = 12	
Number NDs = 0	
Number Detects = 12	
Number Data (n) = 12	
10% critical value: 0.49	
5% critical value: 0.546	
1% critical value: 0.642	
Note: NDs replaced by DL/2 in Outlier Test	
1. Data Value 54 is a Potential Outlier (Upper Tail)?	
Test Statistic: 0.111	
For 10% significance level, 54 is not an outlier.	
For 5% significance level, 54 is not an outlier.	
For 1% significance level, 54 is not an outlier.	
2. Data Value 7.08 is a Potential Outlier (Lower Tail)?	
Test Statistic: 0.881	
For 10% significance level, 7.08 is an outlier.	
For 5% significance level, 7.08 is an outlier.	
For 1% significance level, 7.08 is an outlier.	

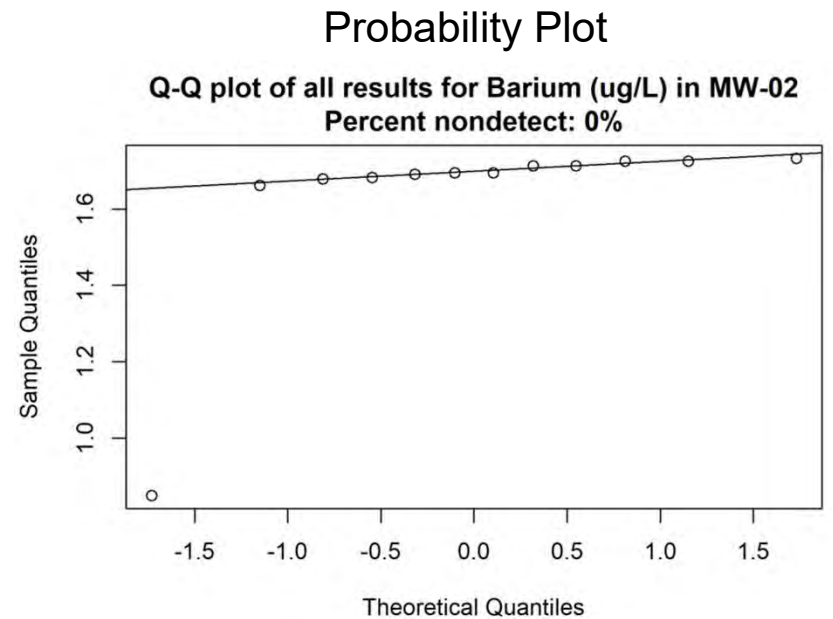
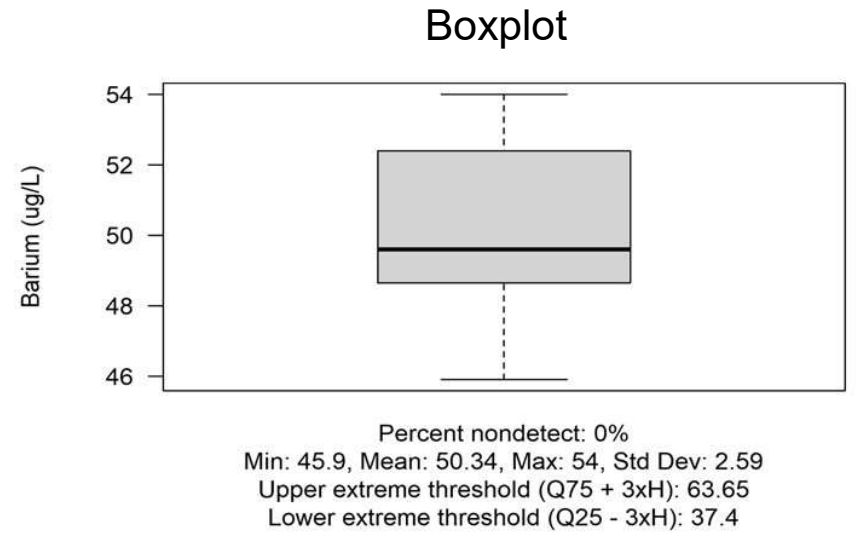
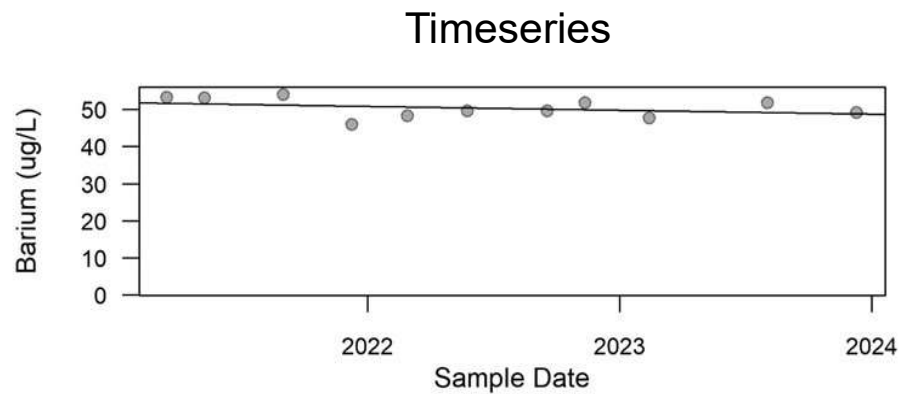


Figure 6
 Statistical Results: Barium (all data)
 Pinyon Plain Mine – POC #2



ProUCL Outlier Test

Dixon's Outlier Test for Barium	
Total N = 12	
Number NDs = 0	
Number Detects = 12	
Number Data (n) = 12	
10% critical value: 0.49	
5% critical value: 0.546	
1% critical value: 0.642	
Note: NDs replaced by DL/2 in Outlier Test	
1. Data Value 54 is a Potential Outlier (Upper Tail)?	
Test Statistic: 0.111	
For 10% significance level, 54 is not an outlier.	
For 5% significance level, 54 is not an outlier.	
For 1% significance level, 54 is not an outlier.	
2. Data Value 7.08 is a Potential Outlier (Lower Tail)?	
Test Statistic: 0.881	
For 10% significance level, 7.08 is an outlier.	
For 5% significance level, 7.08 is an outlier.	
For 1% significance level, 7.08 is an outlier.	

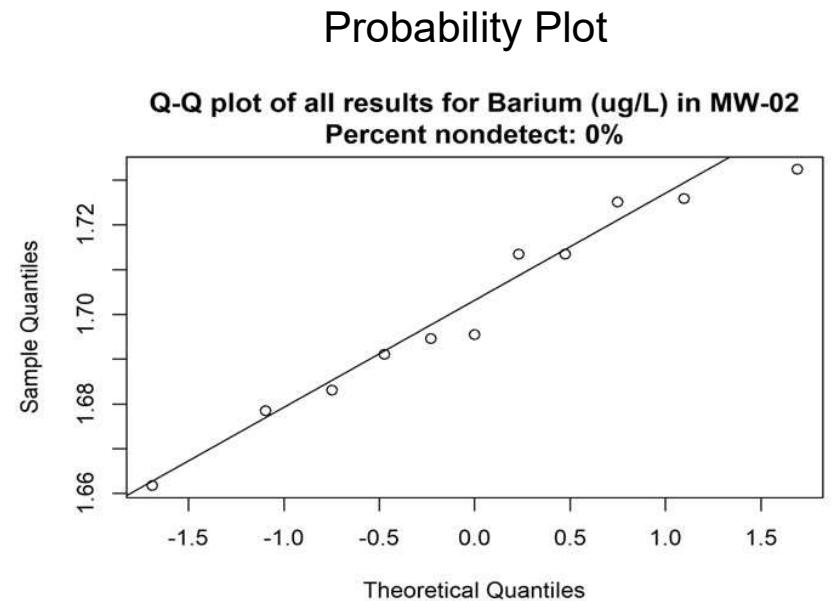
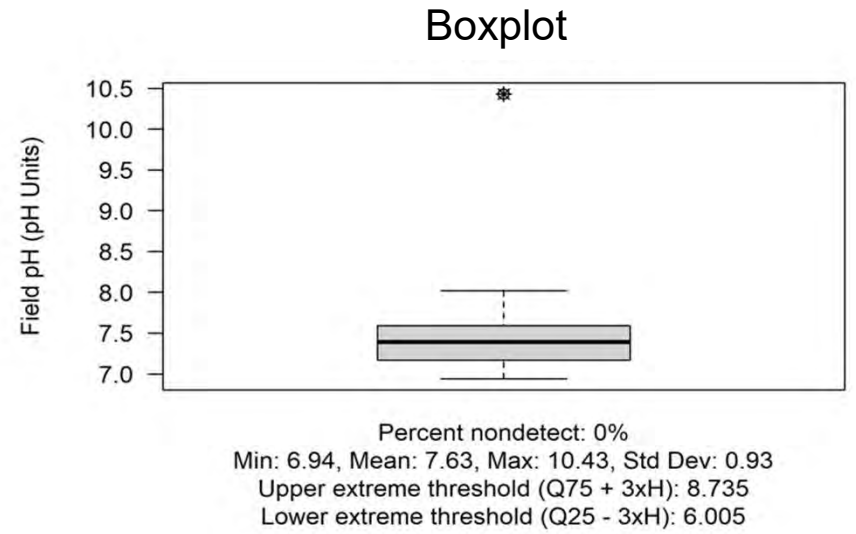
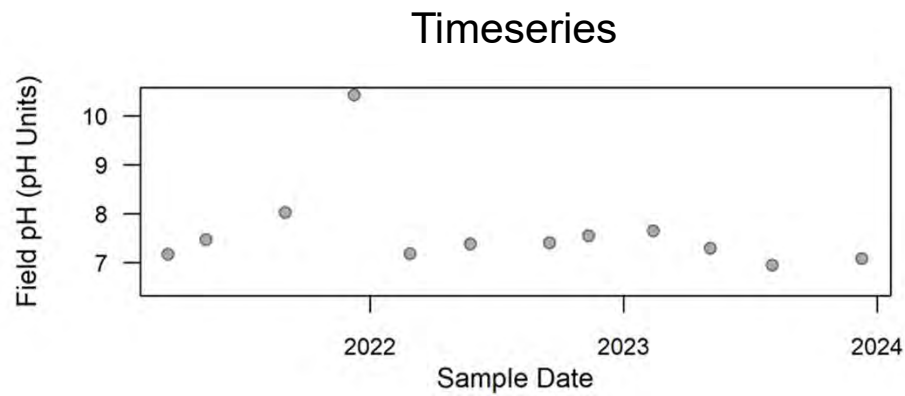


Figure 7
 Statistical Results: Barium
 (extreme 1 removed)
 Pinyon Plain Mine – POC #2



ProUCL Outlier Test

Dixon's Outlier Test for Field pH	
Total N = 12	
Number NDs = 0	
Number Detects = 12	
Number Data (n) = 12	
10% critical value: 0.49	
5% critical value: 0.546	
1% critical value: 0.642	
Note: NDs replaced by DL/2 in Outlier Test	
1. Data Value 10.43 is a Potential Outlier (Upper Tail)?	
Test Statistic: 0.833	
For 10% significance level, 10.43 is an outlier.	
For 5% significance level, 10.43 is an outlier.	
For 1% significance level, 10.43 is an outlier.	
2. Data Value 6.94 is a Potential Outlier (Lower Tail)?	
Test Statistic: 0.204	
For 10% significance level, 6.94 is not an outlier.	
For 5% significance level, 6.94 is not an outlier.	
For 1% significance level, 6.94 is not an outlier.	

Probability Plot

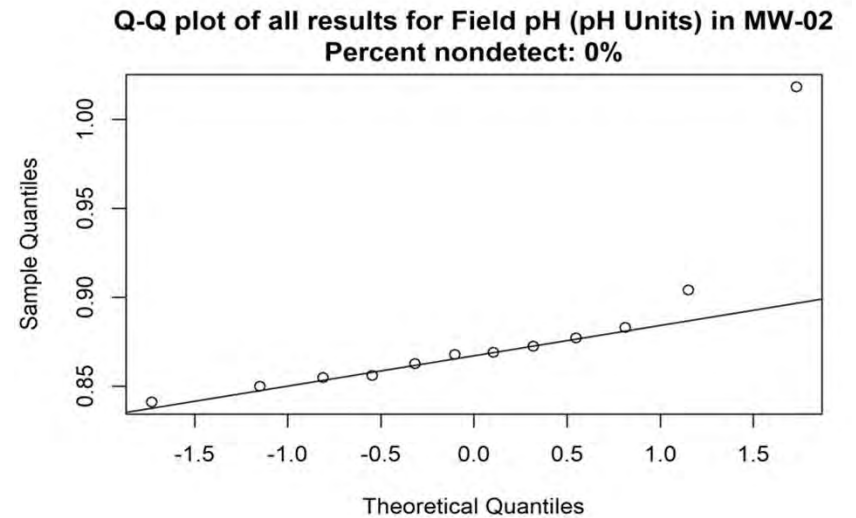


Figure 8
 Statistical Results: Field pH (all data)
 Pinyon Plain Mine – POC #2

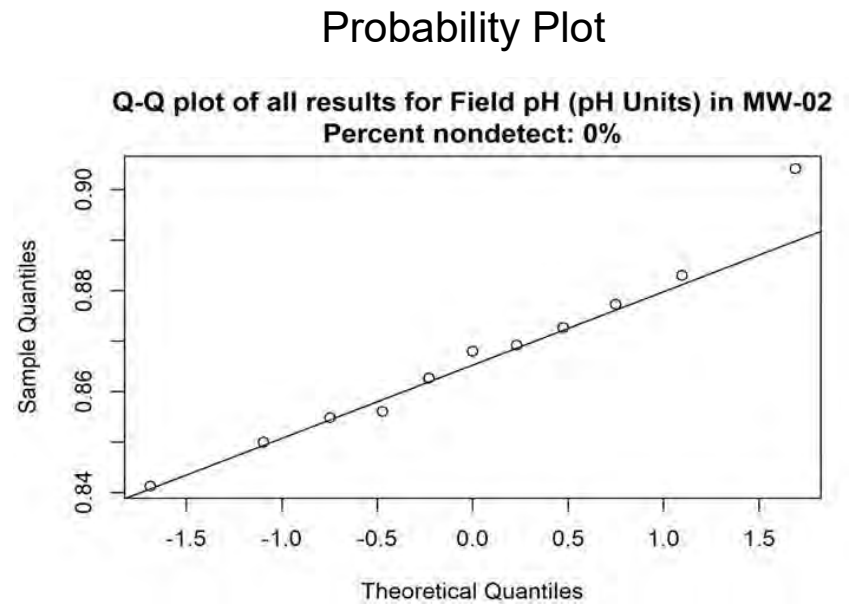
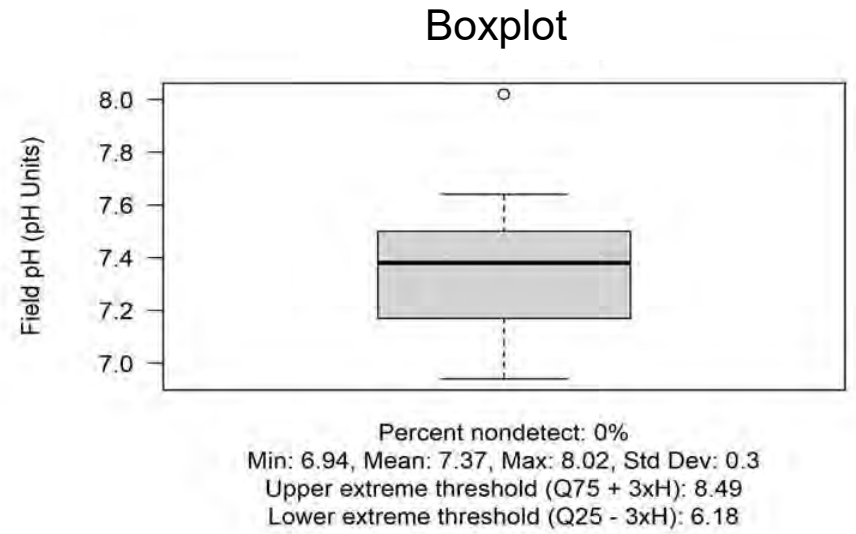
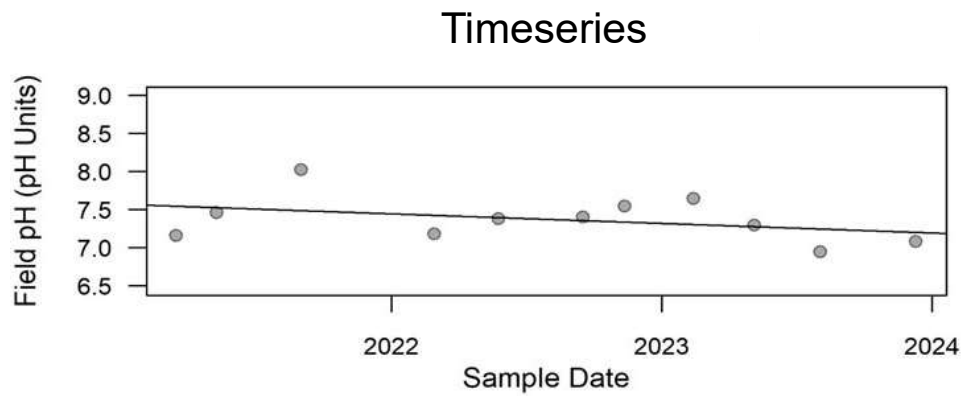
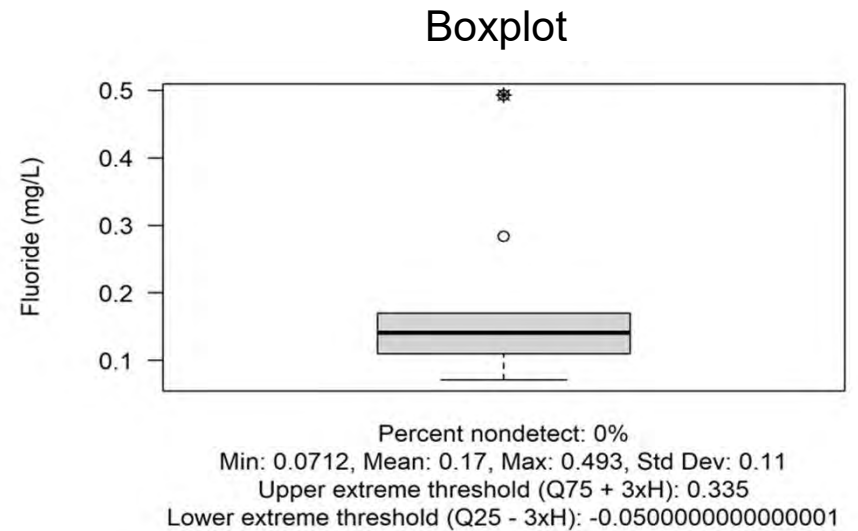
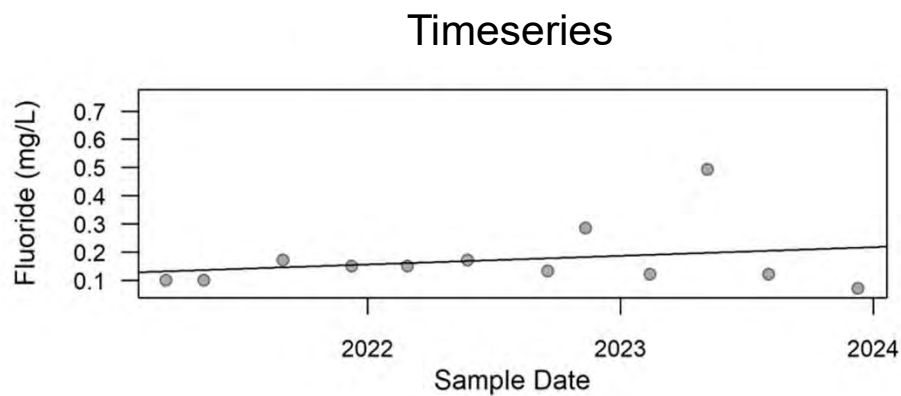


Figure 9
 Statistical Results: Field pH
 (extreme 1 removed)
 Pinyon Plain Mine – POC #2



ProUCL Outlier Test

Dixon's Outlier Test for Fluoride	
Total N = 12	
Number NDs = 0	
Number Detects = 12	
Number Data (n) = 12	
10% critical value: 0.49	
5% critical value: 0.546	
1% critical value: 0.642	
Note: NDs replaced by DL/2 in Outlier Test	
1. Data Value 0.493 is a Potential Outlier (Upper Tail)?	
Test Statistic: 0.822	
For 10% significance level, 0.493 is an outlier.	
For 5% significance level, 0.493 is an outlier.	
For 1% significance level, 0.493 is an outlier.	
2. Data Value 0.0712 is a Potential Outlier (Lower Tail)?	
Test Statistic: 0.135	
For 10% significance level, 0.0712 is not an outlier.	
For 5% significance level, 0.0712 is not an outlier.	
For 1% significance level, 0.0712 is not an outlier.	

Probability Plot

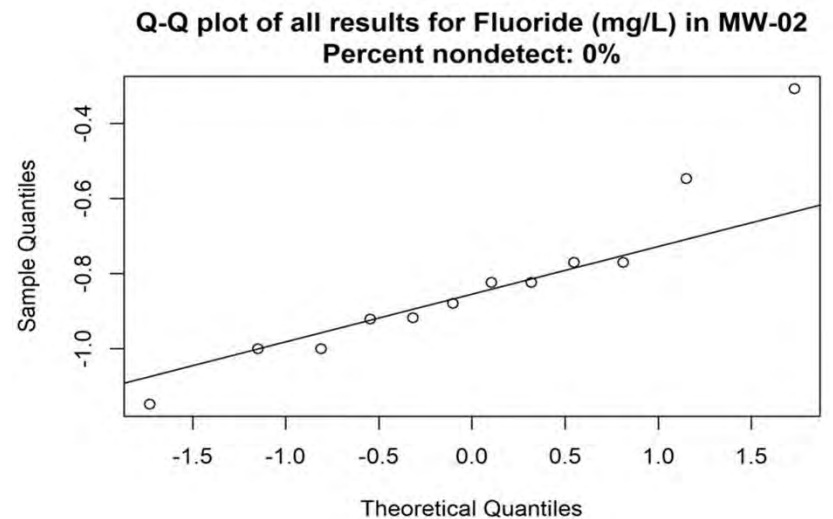


Figure 10
 Statistical Results: Fluoride (all data)
 Pinyon Plain Mine – POC #2

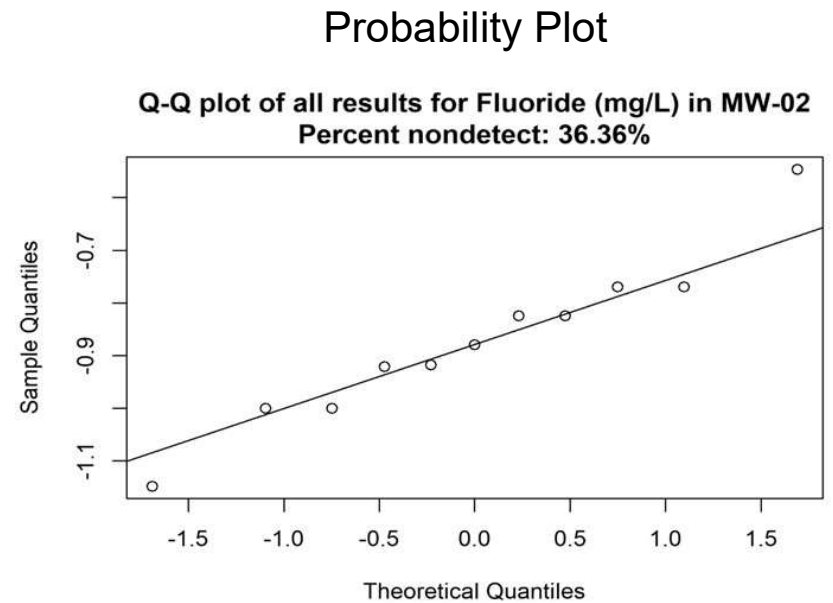
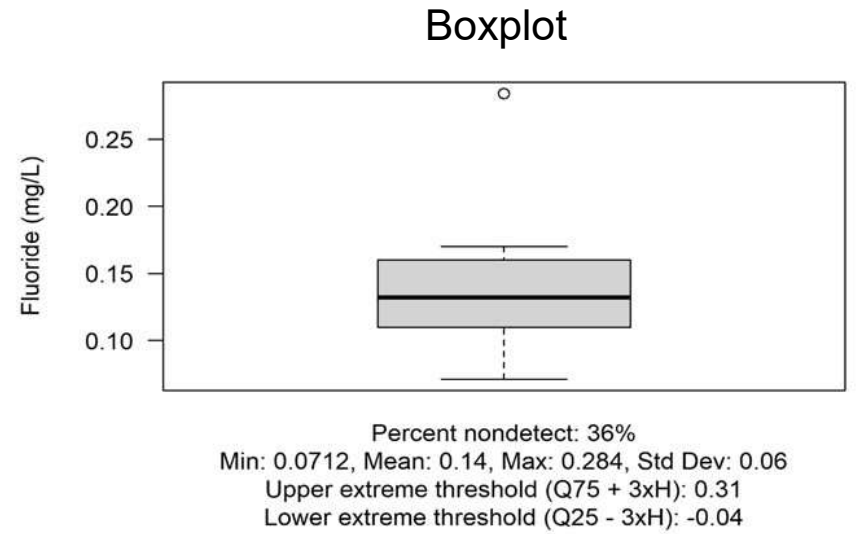
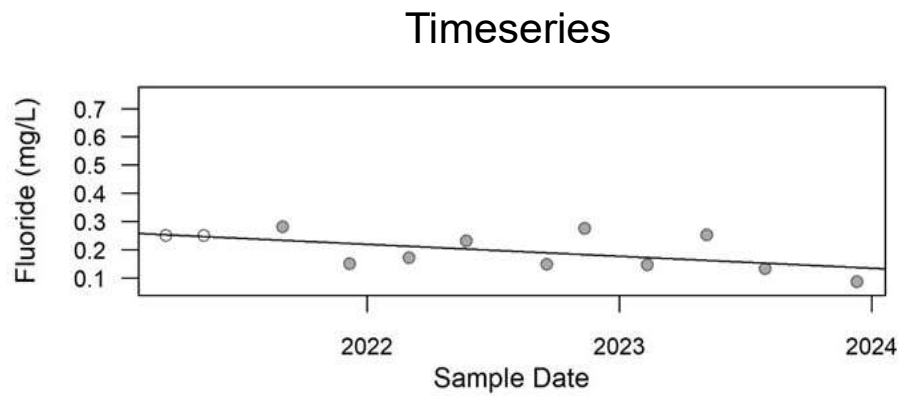
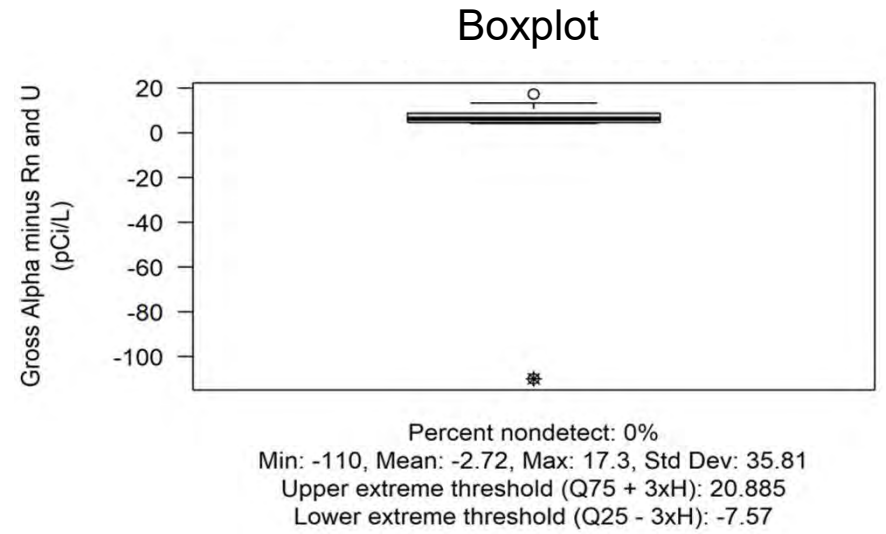
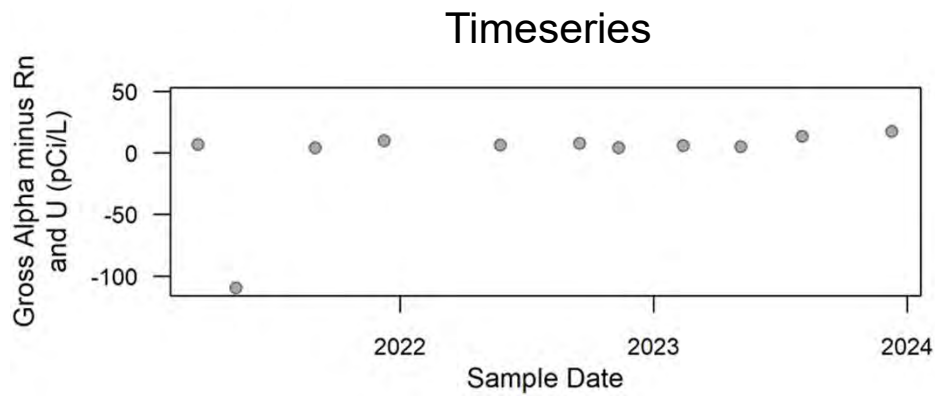


Figure 11
 Statistical Results: Fluoride
 (extreme 1 removed)
 Pinyon Plain Mine – POC #2



ProUCL Outlier Test

Dixon's Outlier Test for Gross Alpha minus Rn and U	
Total N =	11
Number NDs =	0
Number Detects =	11
Number Data (n) =	11
10% critical value:	0.517
5% critical value:	0.576
1% critical value:	0.679
Note:	NDs replaced by DL/2 in Outlier Test
1. Data Value 17.3 is a Potential Outlier (Upper Tail)?	
Test Statistic:	0.564
For 10% significance level, 17.3 is an outlier.	
For 5% significance level, 17.3 is not an outlier.	
For 1% significance level, 17.3 is not an outlier.	
2. Data Value -110 is a Potential Outlier (Lower Tail)?	
Test Statistic:	0.925
For 10% significance level, -110 is an outlier.	
For 5% significance level, -110 is an outlier.	
For 1% significance level, -110 is an outlier.	

Probability Plot

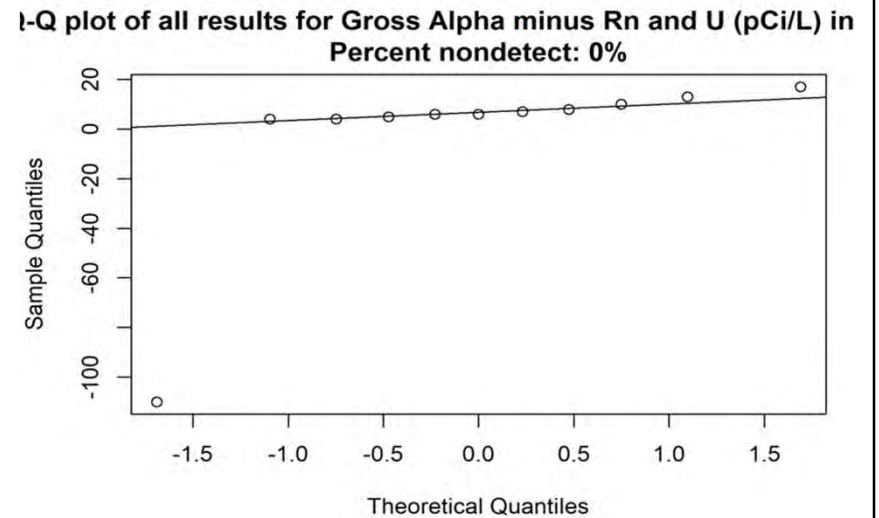


Figure 12
 Statistical Results: Gross Alpha (all data)
 Pinyon Plain Mine – POC #2

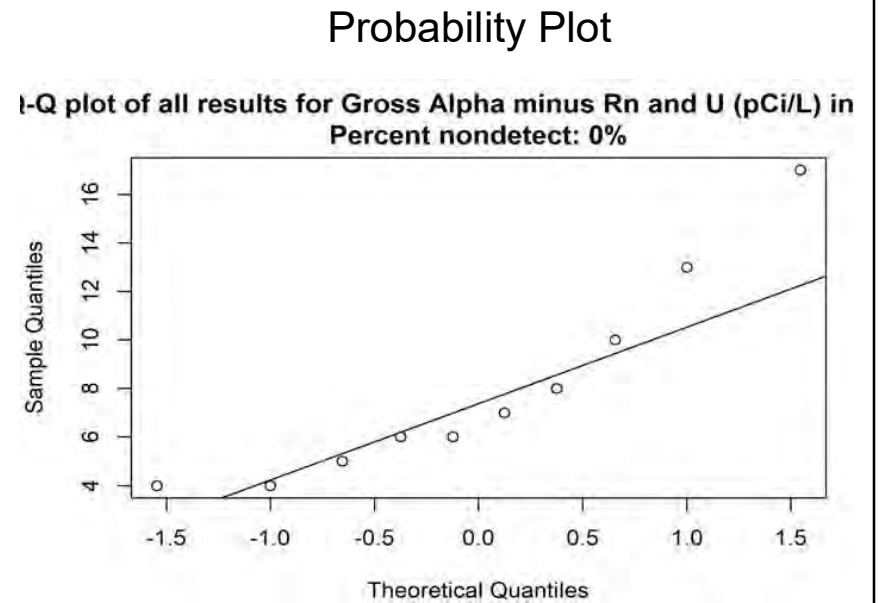
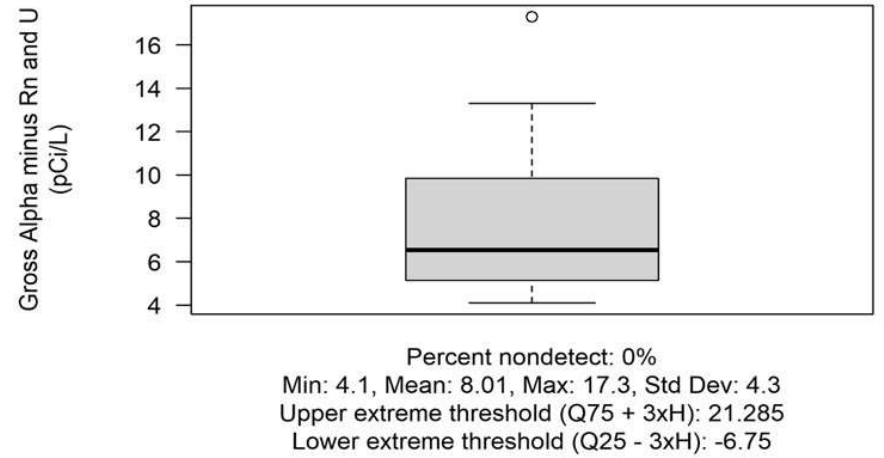
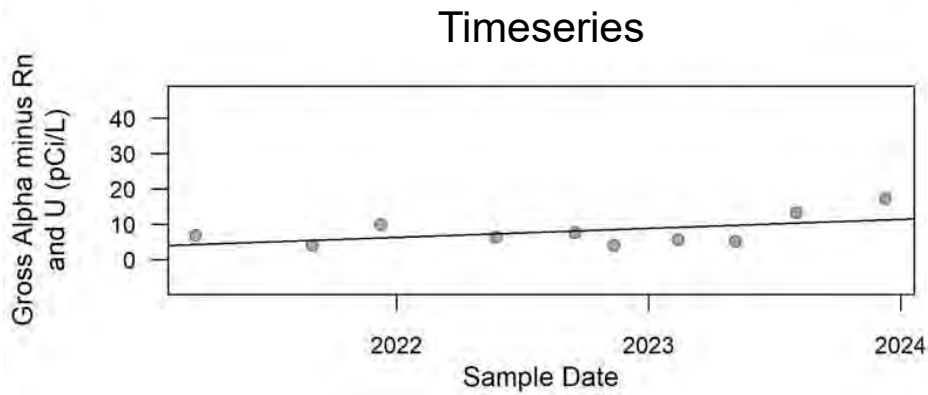
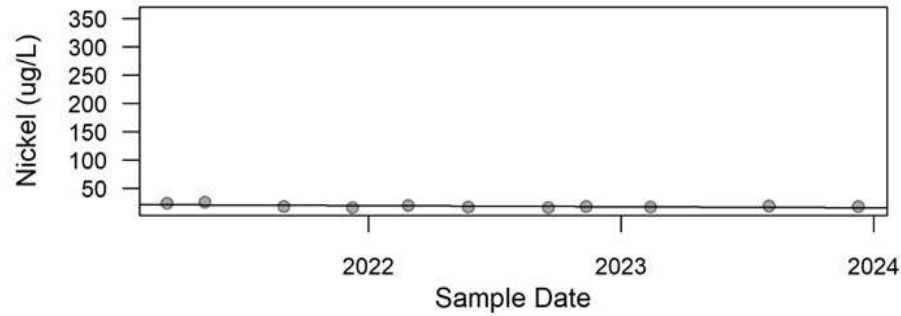
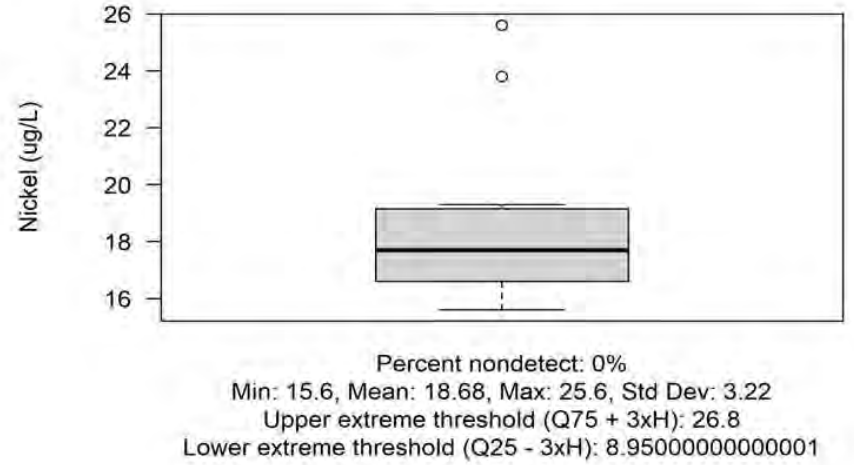


Figure 13
 Statistical Results: Gross Alpha
 (extreme 1 removed)
 Pinyon Plain Mine – POC #2

Timeseries



Boxplot



Probability Plot

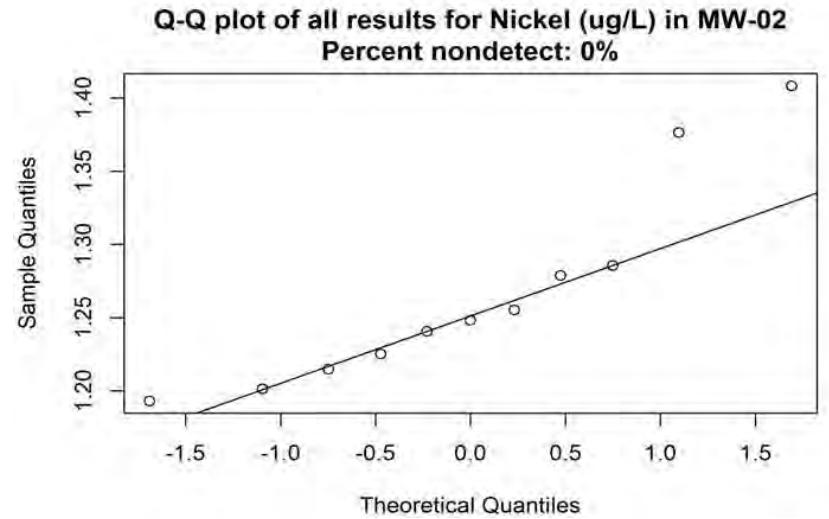
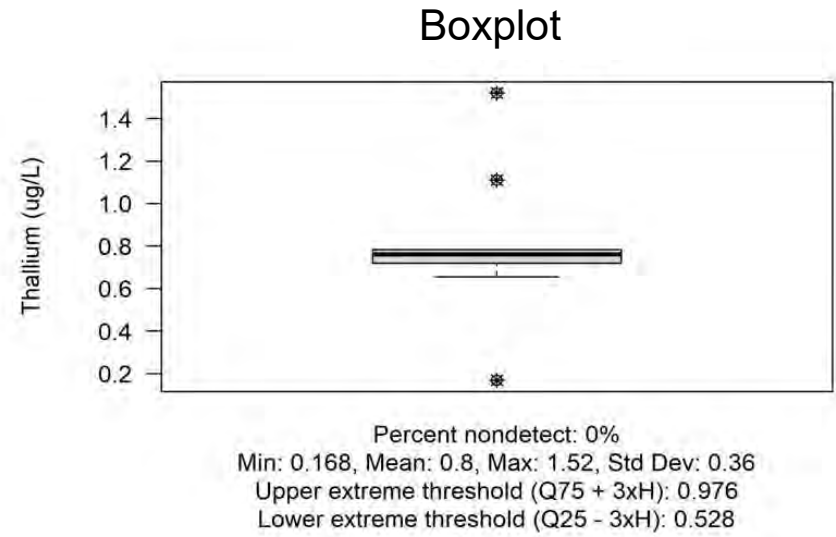
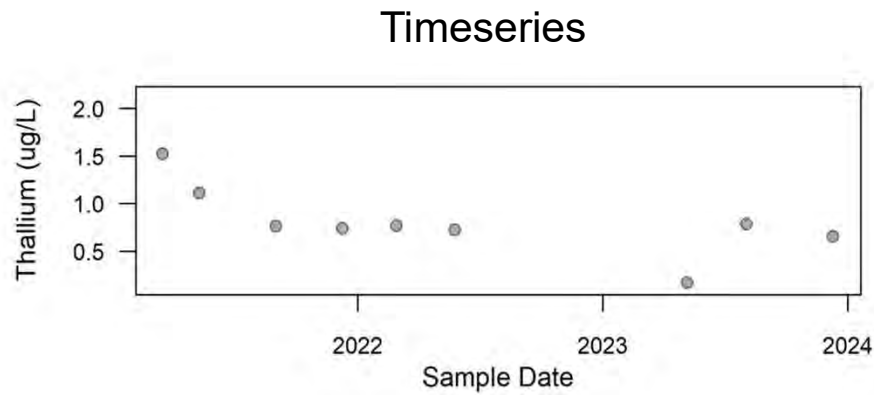


Figure 15

Statistical Results: Nickel
(extreme 1 removed)
Pinyon Plain Mine – POC #2



ProUCL Outlier Test

Dixon's Outlier Test for Thallium	
Total N = 9	
Number NDs = 0	
Number Detects = 9	
Number Data (n) = 9	
10% critical value: 0.441	
5% critical value: 0.512	
1% critical value: 0.635	
Note: NDs replaced by DU/2 in Outlier Test	
1. Data Value 1.52 is a Potential Outlier (Upper Tail)?	
Test Statistic: 0.474	
For 10% significance level, 1.52 is an outlier.	
For 5% significance level, 1.52 is not an outlier.	
For 1% significance level, 1.52 is not an outlier.	
2. Data Value 0.168 is a Potential Outlier (Lower Tail)?	
Test Statistic: 0.517	
For 10% significance level, 0.168 is an outlier.	
For 5% significance level, 0.168 is an outlier.	
For 1% significance level, 0.168 is not an outlier.	

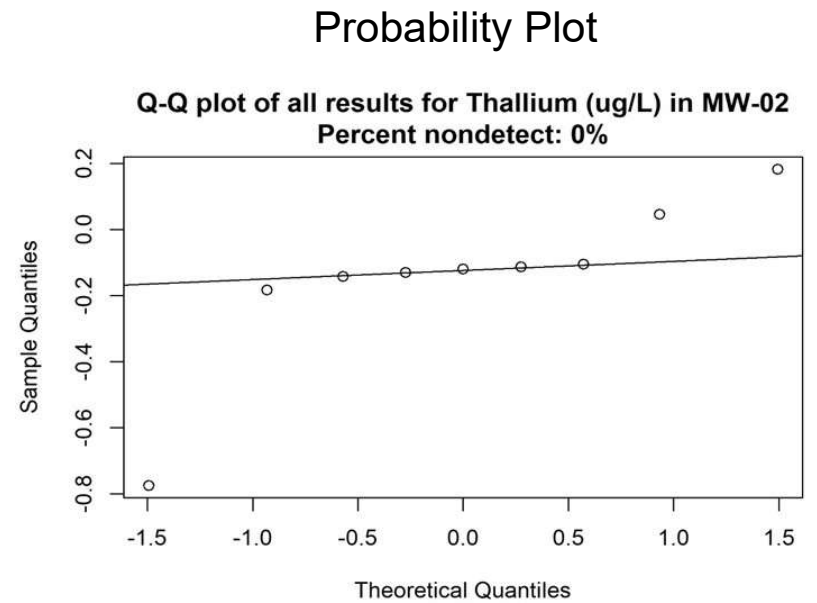
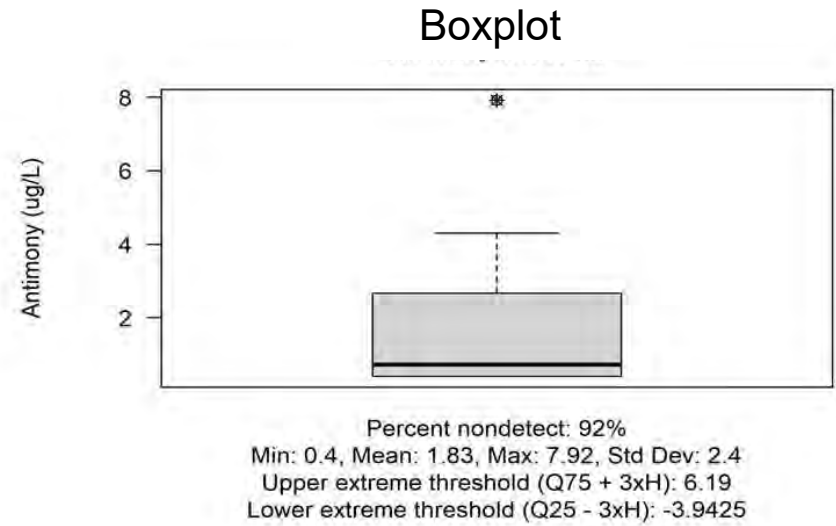
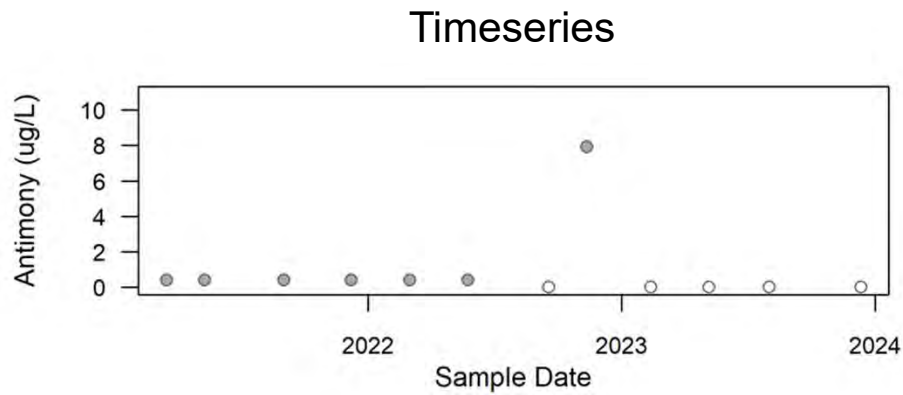


Figure 16
 Statistical Results: Thallium
 Pinyon Plain Mine – POC #2



ProUCL Outlier Test

Dixon's Outlier Test for Antimony	
Total N =	12
Number NDs =	11
Number Detects =	1
Number Data (n) =	12
10% critical value:	0.49
5% critical value:	0.546
1% critical value:	0.642
Note:	NDs replaced by DL/2 in Outlier Test
1. Data Value 7.92 is a Potential Outlier (Upper Tail)	
Test Statistic:	0.747
For 10% significance level, 7.92 is an outlier.	
For 5% significance level, 7.92 is an outlier.	
For 1% significance level, 7.92 is an outlier.	
2. Data Value 0.2 is a Potential Outlier (Lower Tail)?	
Test Statistic:	0.000
For 10% significance level, 0.2 is not an outlier.	
For 5% significance level, 0.2 is not an outlier.	
For 1% significance level, 0.2 is not an outlier.	

Probability Plot

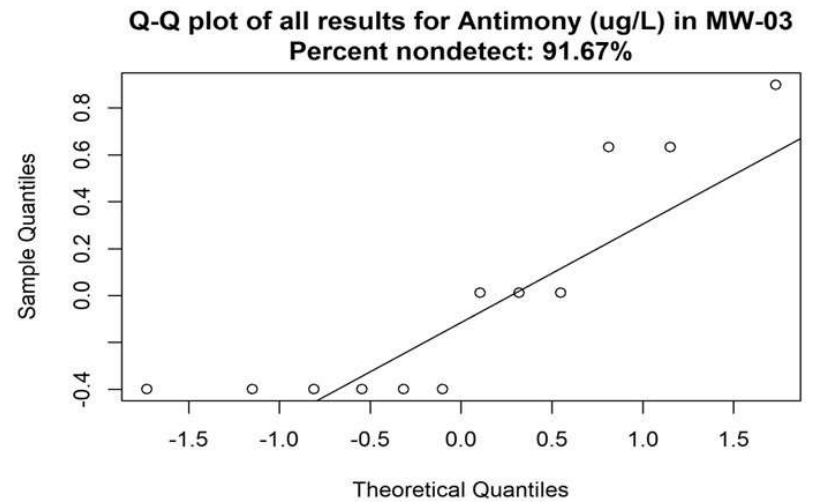
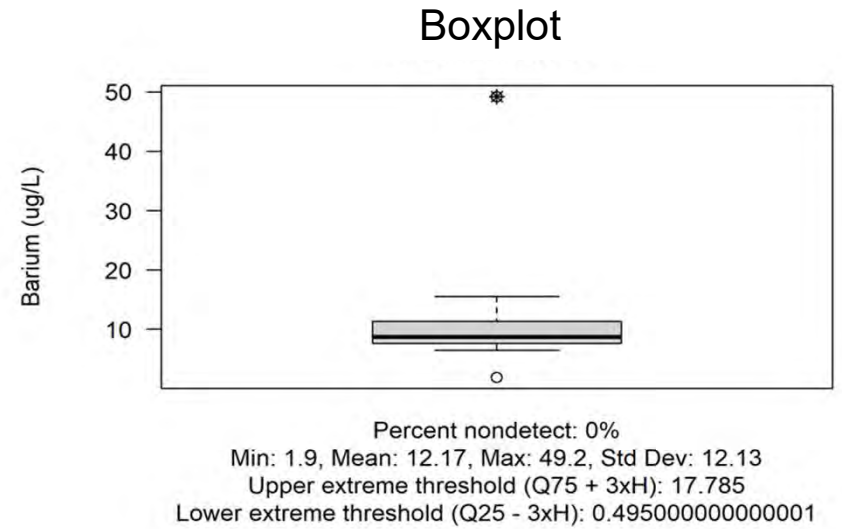
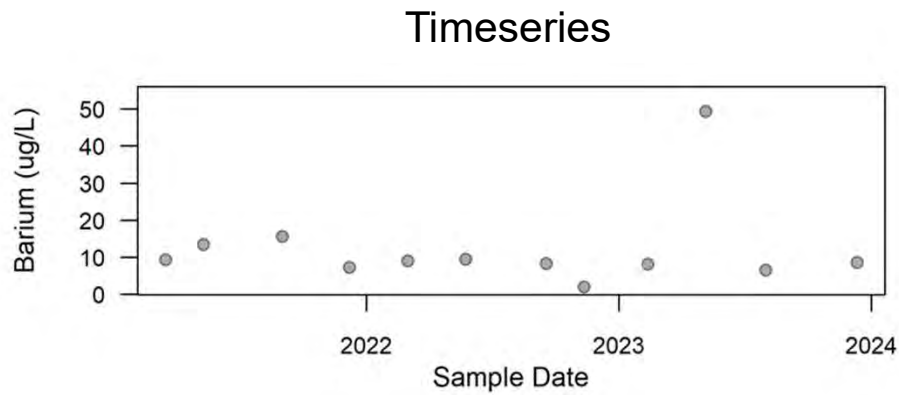


Figure 17
 Statistical Results: Antimony
 Pinyon Plain Mine – POC #3



ProUCL Outlier Test

Dixon's Outlier Test for Barium	
Total N = 12	
Number NDs = 0	
Number Detects = 12	
Number Data (n) = 12	
10% critical value: 0.49	
5% critical value: 0.546	
1% critical value: 0.642	
Note: NDs replaced by DL/2 in Outlier Test	
1. Data Value 49.2 is a Potential Outlier (Upper Tail)?	
Test Statistic: 0.840	
For 10% significance level, 49.2 is an outlier.	
For 5% significance level, 49.2 is an outlier.	
For 1% significance level, 49.2 is an outlier.	
2. Data Value 1.9 is a Potential Outlier (Lower Tail)?	
Test Statistic: 0.390	
For 10% significance level, 1.9 is not an outlier.	
For 5% significance level, 1.9 is not an outlier.	
For 1% significance level, 1.9 is not an outlier.	

Probability Plot

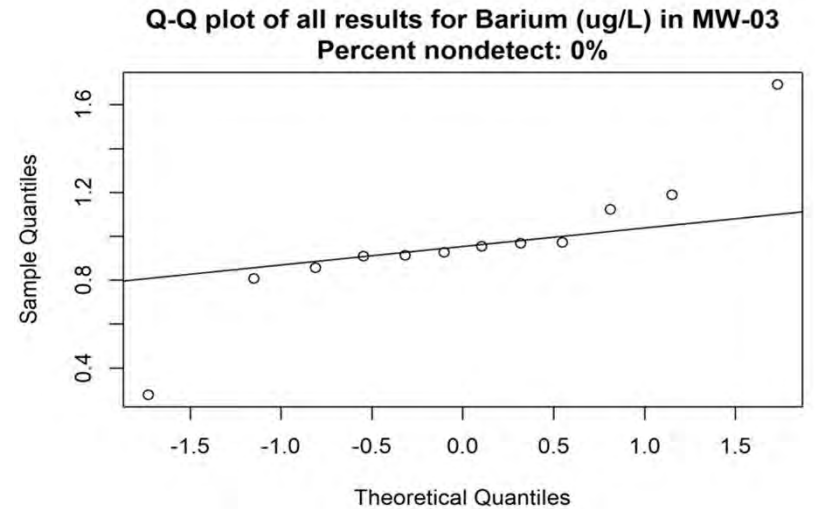
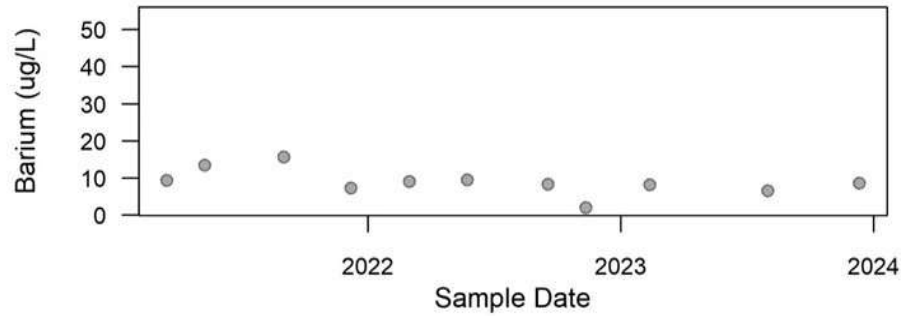
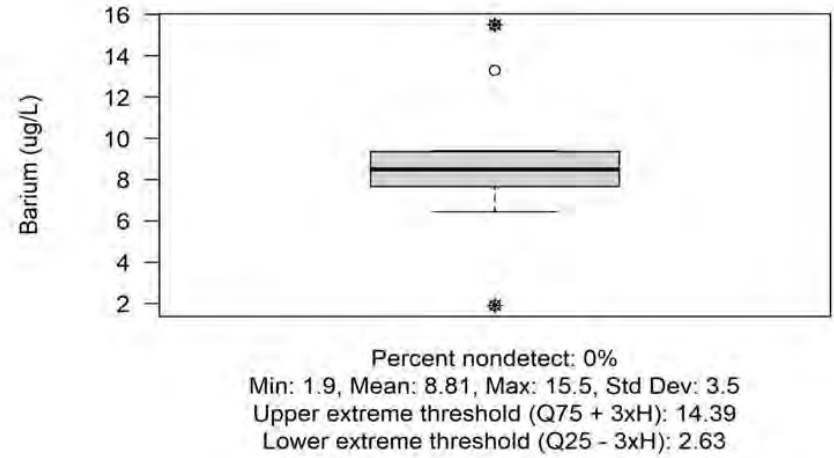


Figure 18
 Statistical Results: Barium (all data)
 Pinyon Plain Mine – POC #3

Timeseries



Boxplot



ProUCL Outlier Test

Dixon's Outlier Test for Barium	
Total N = 11	
Number NDs = 0	
Number Detects = 11	
Number Data (n) = 11	
10% critical value: 0.517	
5% critical value: 0.576	
1% critical value: 0.679	
Note: NDs replaced by DL/2 in Outlier Test	
1. Data Value 15.5 is a Potential Outlier (Upper Tail)?	
Test Statistic: 0.673	
For 10% significance level, 15.5 is an outlier.	
For 5% significance level, 15.5 is an outlier.	
For 1% significance level, 15.5 is not an outlier.	
2. Data Value 1.9 is a Potential Outlier (Lower Tail)?	
Test Statistic: 0.465	
For 10% significance level, 1.9 is not an outlier.	
For 5% significance level, 1.9 is not an outlier.	
For 1% significance level, 1.9 is not an outlier.	

Probability Plot

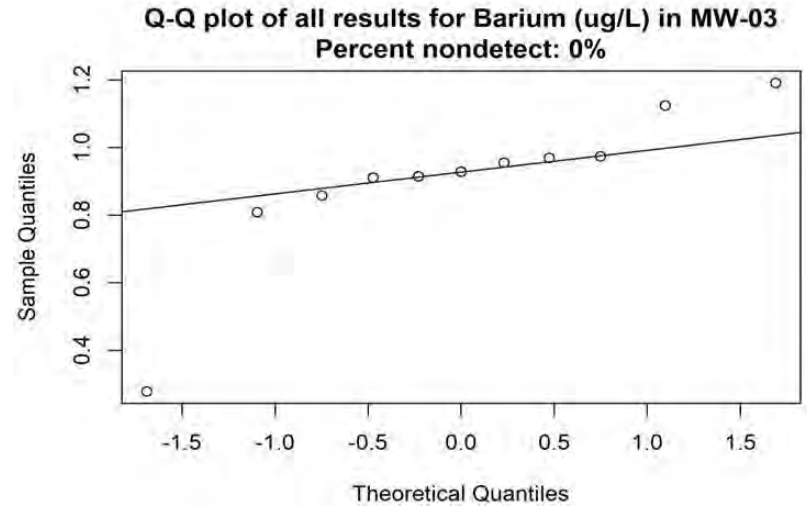
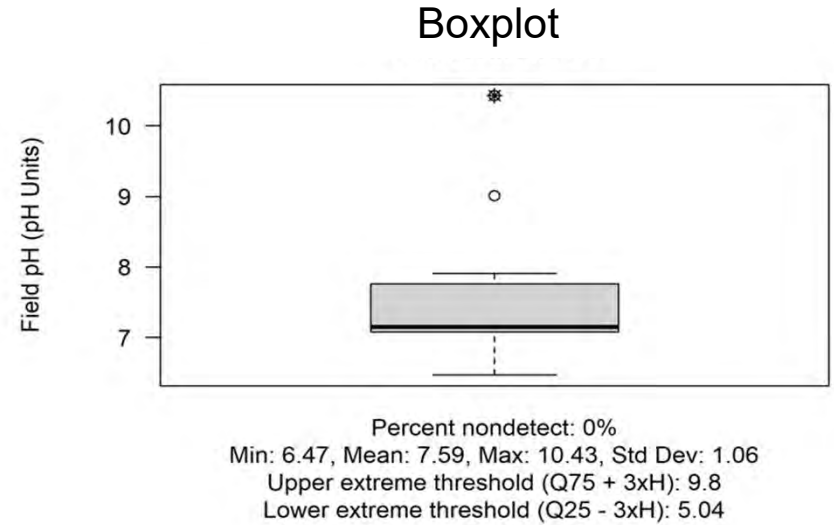
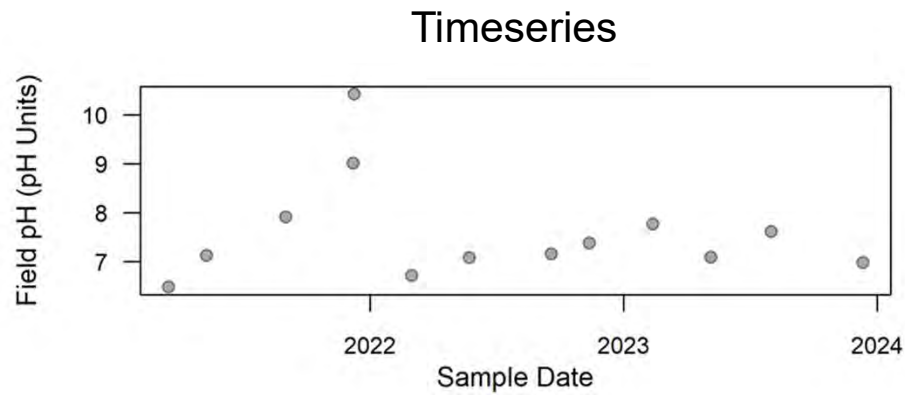


Figure 19
 Statistical Results: Barium
 (extreme 1 removed)
 Pinyon Plain Mine – POC #3



ProUCL Outlier Test

Dixon's Outlier Test for Field pH	
N = 13	
Number of NDs = 0	
Number of Detects = 13	
Number of Data (n) = 13	
Critical Value: 0.467	
Critical Value: 0.521	
Critical Value: 0.615	
NDs replaced by DL/2 in Outlier Test	
Data Value 10.43 is a Potential Outlier (Upper Tail)?	
Statistic: 0.677	
0% significance level, 10.43 is an outlier.	
5% significance level, 10.43 is an outlier.	
10% significance level, 10.43 is an outlier.	
Data Value 6.47 is a Potential Outlier (Lower Tail)?	
Statistic: 0.197	
0% significance level, 6.47 is not an outlier.	
5% significance level, 6.47 is not an outlier.	
10% significance level, 6.47 is not an outlier.	

Probability Plot

Q-Q plot of all results for Field pH (pH Units) in MW-03
 Percent nondetect: 0%

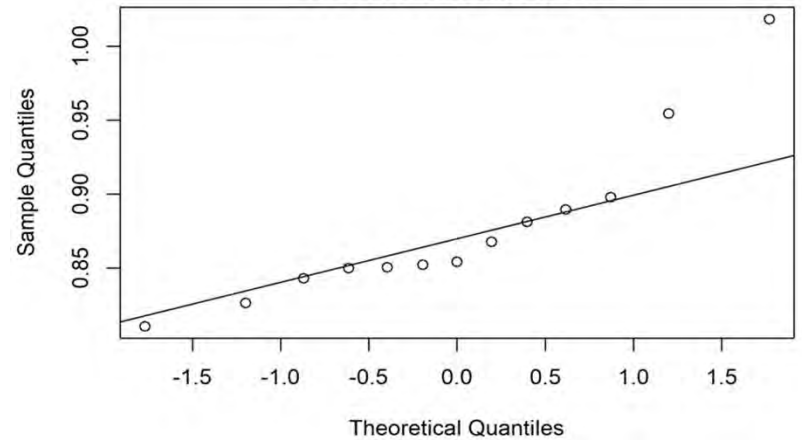
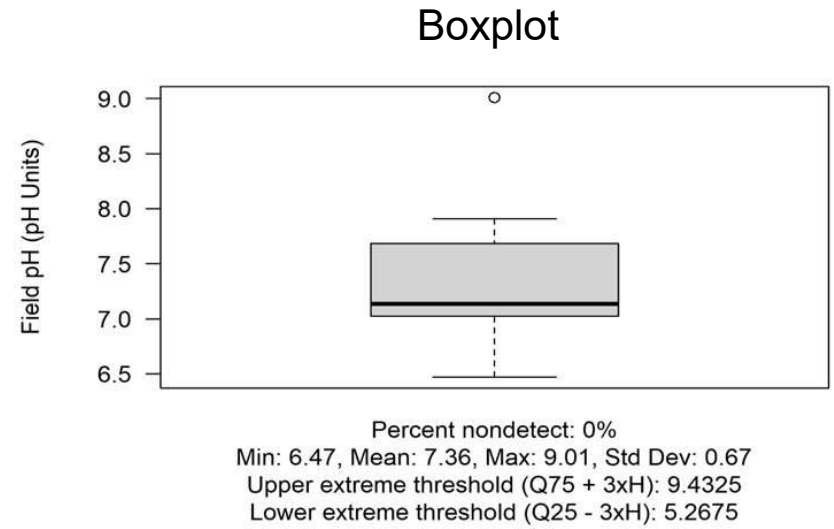
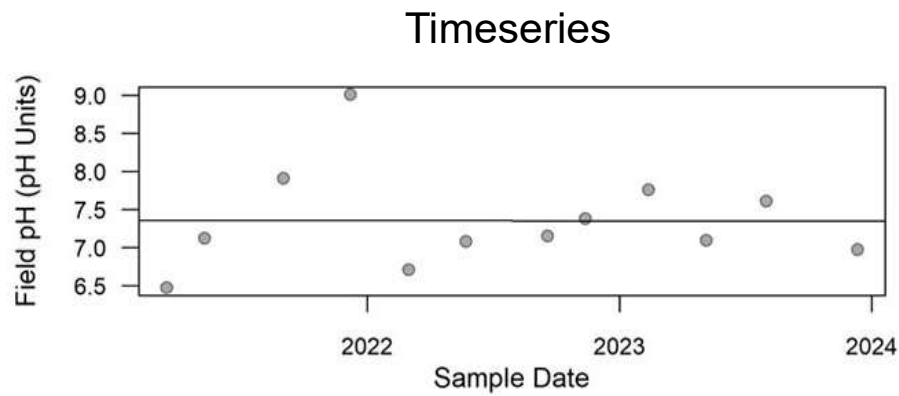


Figure 20
 Statistical Results: Field pH (all data)
 Pinyon Plain Mine – POC #3

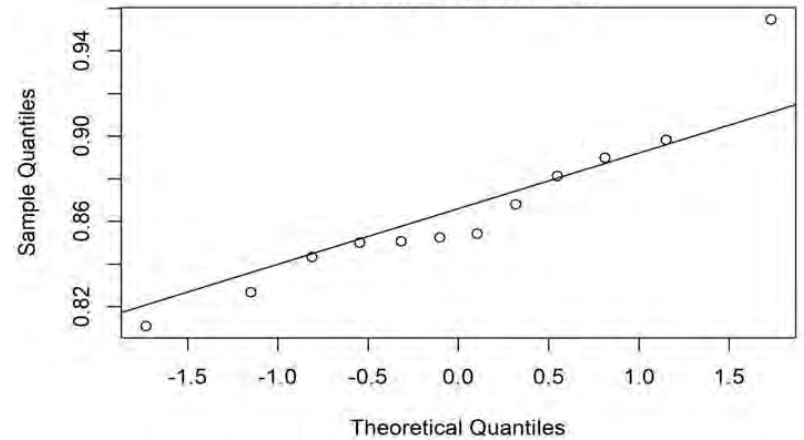


ProUCL Outlier Test

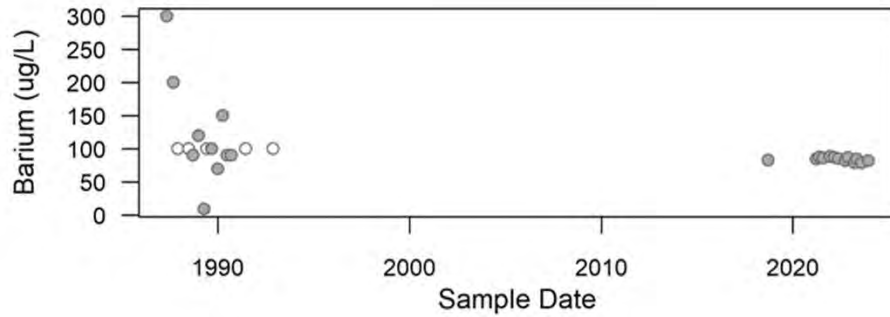
Dixon's Outlier Test for Field pH	
Total N = 12	
Number NDs = 0	
Number Detects = 12	
Number Data (n) = 12	
10% critical value: 0.49	
5% critical value: 0.546	
1% critical value: 0.642	
Note: NDs replaced by DL/2 in Outlier Test	
1. Data Value 9.01 is a Potential Outlier (Upper Tail)	
Test Statistic: 0.543	
For 10% significance level, 9.01 is an outlier.	
For 5% significance level, 9.01 is not an outlier.	
For 1% significance level, 9.01 is not an outlier.	
2. Data Value 6.47 is a Potential Outlier (Lower Tail)	
Test Statistic: 0.347	
For 10% significance level, 6.47 is not an outlier.	
For 5% significance level, 6.47 is not an outlier.	
For 1% significance level, 6.47 is not an outlier.	

Probability Plot

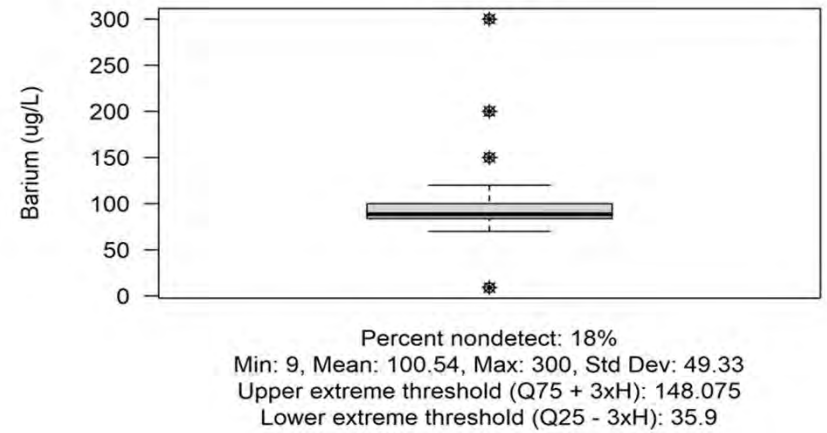
Q-Q plot of all results for Field pH (pH Units) in MW-03
 Percent nondetect: 0%



Timeseries



Boxplot



ProUCL Outlier Test

Rosner's Outlier Test for 1 Outliers in Barium

Total N	28
Number NDs	5
Number Detects	28
Mean with NDs=DL/2	91.61
SD with NDs=DL/2	53.14
Number of data	28
Number of suspected outliers	1
IDs replaced with half value.	

#	Mean	sd	Potential outlier	Obs. Number	Test value	Critical value (5%)	Critical value (1%)
1	91.61	52.18	300	1	3.994	2.88	3.2

For 5% Significance Level, there is 1 Potential Outlier
 Therefore, Observation 300 is a Potential Statistical Outlier

For 1% Significance Level, there is 1 Potential Outlier

Probability Plot

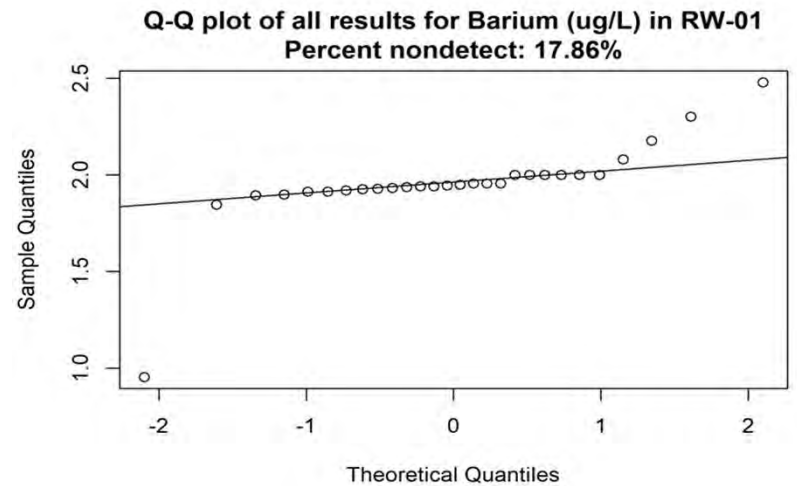
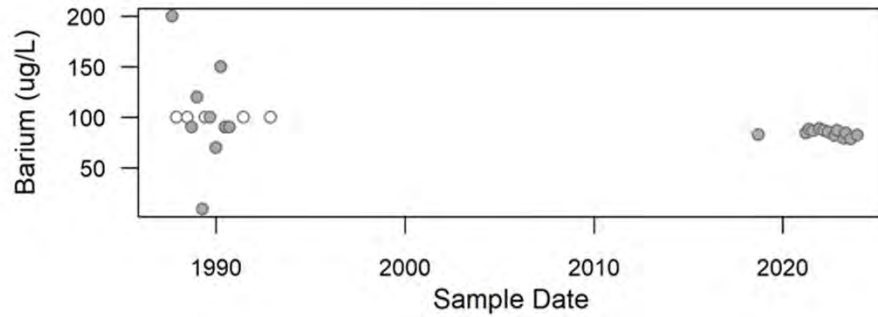
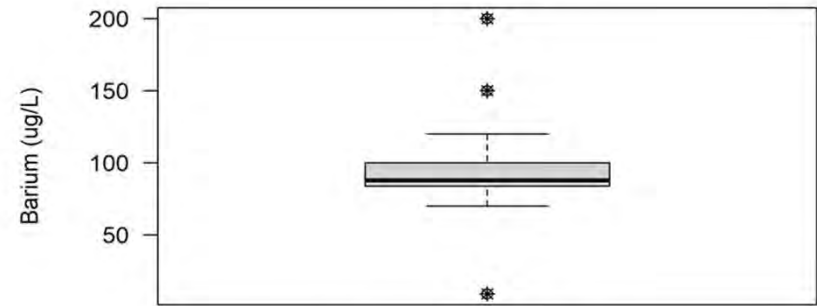


Figure 22
 Statistical Results: Barium (all data)
 Pinyon Plain Mine – POC #4

Timeseries



Boxplot



Percent nondetect: 19%
 Min: 9, Mean: 93.16, Max: 200, Std Dev: 30.66
 Upper extreme threshold (Q75 + 3xH): 149.05
 Lower extreme threshold (Q25 - 3xH): 34.6

ProUCL Outlier Test

Rosner's Outlier Test for 1 Outliers in Barium

Total N	27
Number NDs	5
Number Detects	27
Mean with NDs=DL/2	83.9
SD with NDs=DL/2	34.64
Number of data	27
Number of suspected outliers	1
NDs replaced with half value.	

#	Mean	sd	Potential outlier	Obs. Number	Test value	Critical value (5%)	Critical value (1%)
1	83.9	34	200	1	3.415	2.86	3.18

For 5% Significance Level, there is 1 Potential Outlier
 Therefore, Observation 200 is a Potential Statistical Outlier

For 1% Significance Level, there is 1 Potential Outlier

Probability Plot

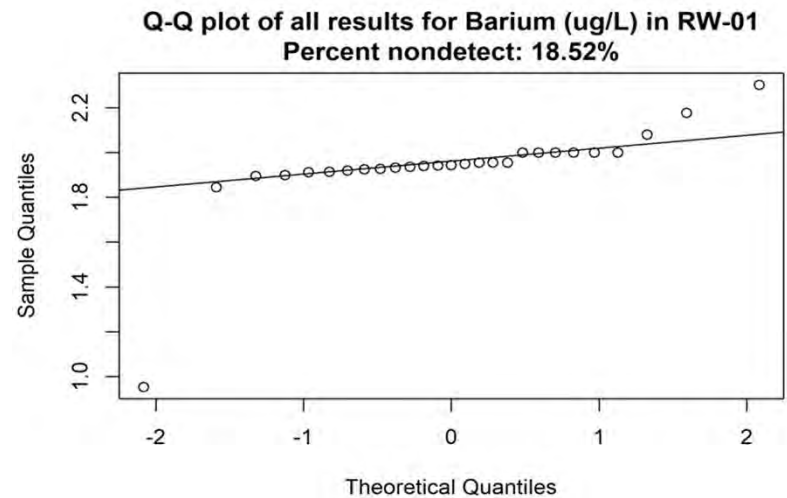
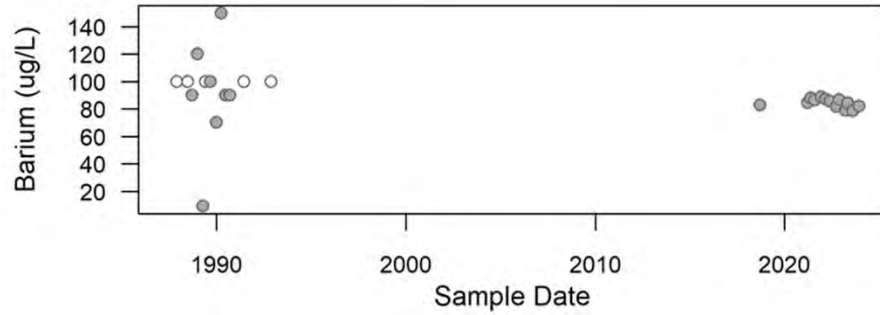


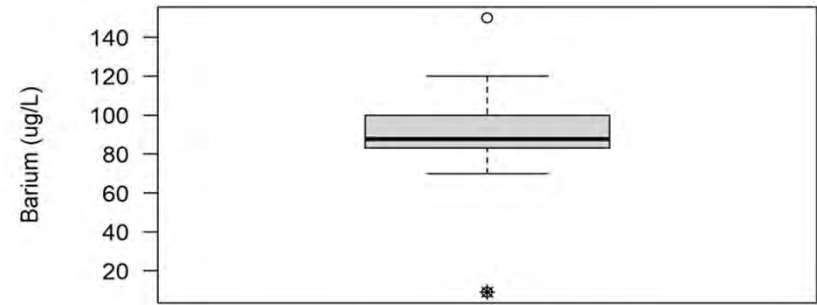
Figure 23

Statistical Results: Barium
 (extreme 1 removed)
 Pinyon Plain Mine – POC #4

Timeseries



Boxplot



Percent nondetect: 19%
 Min: 9, Mean: 89.05, Max: 150, Std Dev: 22.44
 Upper extreme threshold (Q75 + 3xH): 150.025
 Lower extreme threshold (Q25 - 3xH): 33.3

ProUCL Outlier Test

Rosner's Outlier Test for 1 Outliers in Barium

Total N	26
Number NDs	5
Number Detects	26
Mean with NDs=DL/2	79.43
SD with NDs=DL/2	26.23
Number of data	26
Number of suspected outliers	1
NDs replaced with half value.	

#	Mean	sd	Potential outlier	Obs. Number	Test value	Critical value (5%)	Critical value (1%)
1	79.43	25.72	150	9	2.743	2.84	3.16

For 5% Significance Level, there is no Potential Outlier

For 1% Significance Level, there is no Potential Outlier

Probability Plot

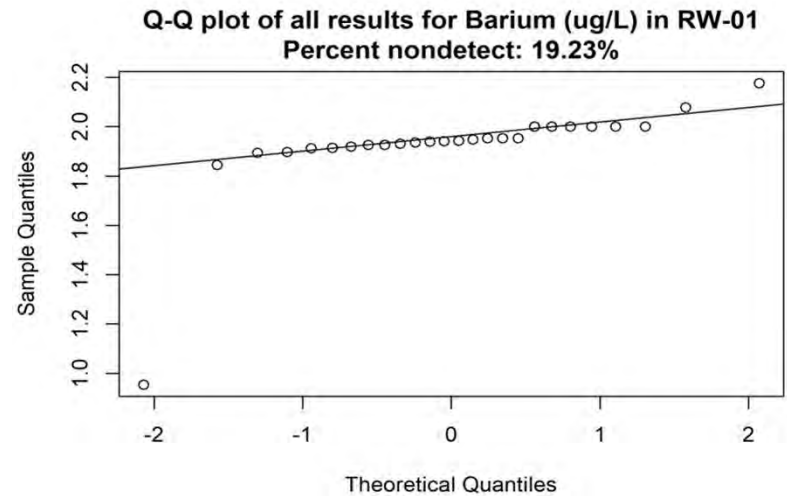
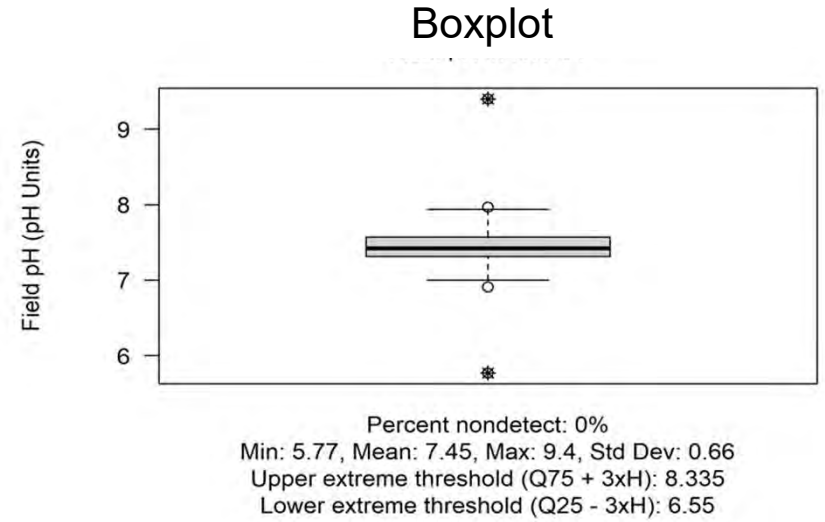
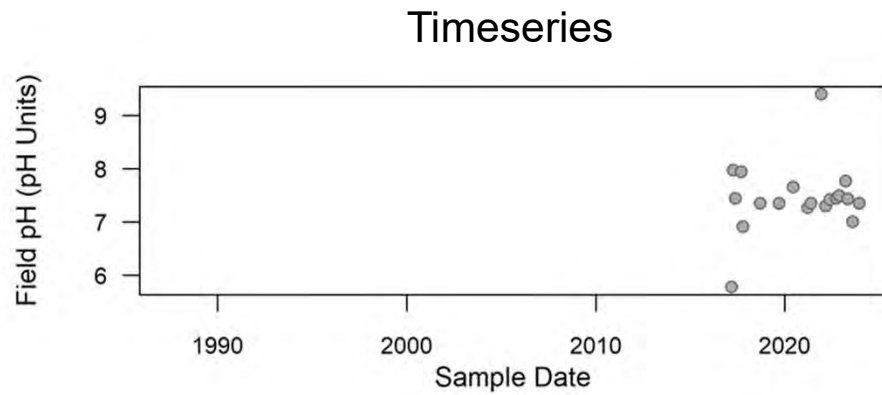


Figure 24

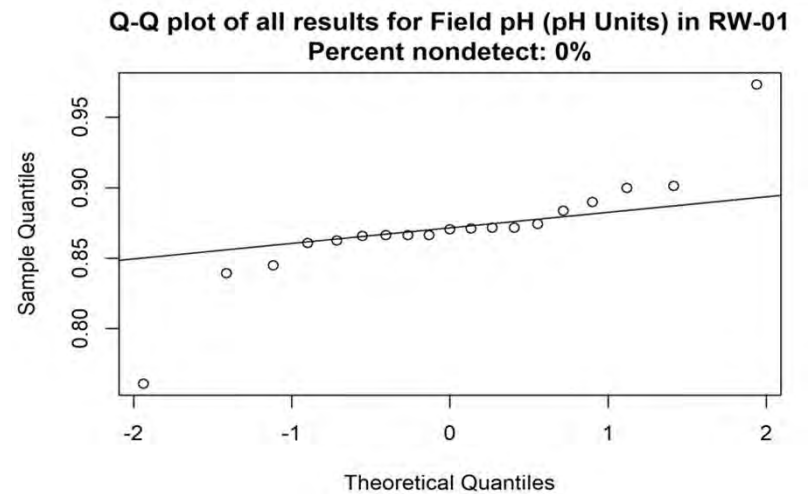
Statistical Results: Barium
 (extreme 2 removed)
 Pinyon Plain Mine – POC #4

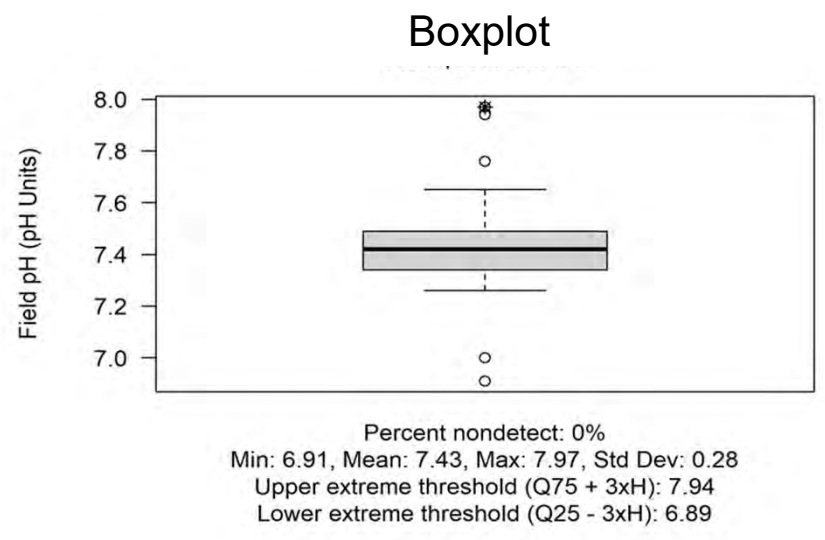
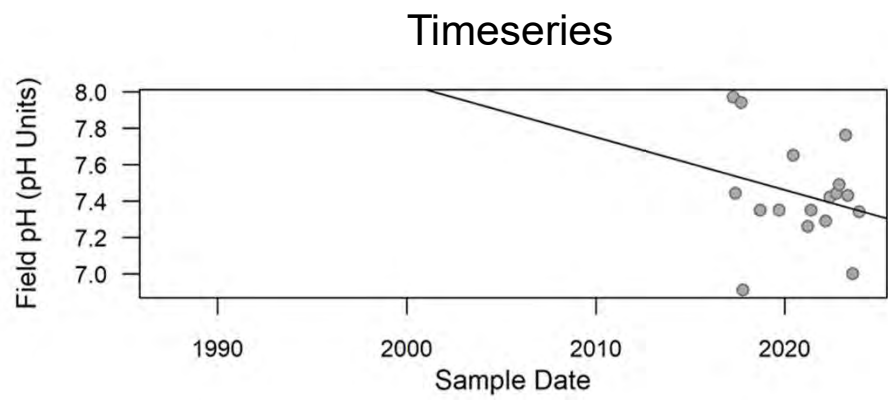


ProUCL Outlier Test

Dixon's Outlier Test for Field pH	
Total N =	19
Number NDs =	0
Number Detects =	19
Number Data (n) =	19
10% critical value =	0.412
5% critical value =	0.462
1% critical value =	0.547
Note: NDs replaced by DL/2 in Outlier Test	
1. Data Value 9.4 is a Potential Outlier (Upper Tail)?	
Test Statistic:	0.608
For 10% significance level, 9.4 is an outlier.	
For 5% significance level, 9.4 is an outlier.	
For 1% significance level, 9.4 is an outlier.	
2. Data Value 5.77 is a Potential Outlier (Lower Tail)?	
Test Statistic:	0.567
For 10% significance level, 5.77 is an outlier.	
For 5% significance level, 5.77 is an outlier.	
For 1% significance level, 5.77 is an outlier.	

Probability Plot





ProUCL Outlier Test

Dixon's Outlier Test for Field pH	
Total N =	17
Number NDs =	0
Number Detects =	17
Number Data (n) =	17
10% critical value:	0.438
5% critical value:	0.49
1% critical value:	0.577
Note: NDs replaced by DL/2 in Outlier Test	
1. Data Value 7.97 is a Potential Outlier (Upper Tail)?	
Test Statistic:	0.296
For 10% significance level, 7.97 is not an outlier.	
For 5% significance level, 7.97 is not an outlier.	
For 1% significance level, 7.97 is not an outlier.	
2. Data Value 6.91 is a Potential Outlier (Lower Tail)?	
Test Statistic:	0.412
For 10% significance level, 6.91 is not an outlier.	
For 5% significance level, 6.91 is not an outlier.	
For 1% significance level, 6.91 is not an outlier.	

Probability Plot

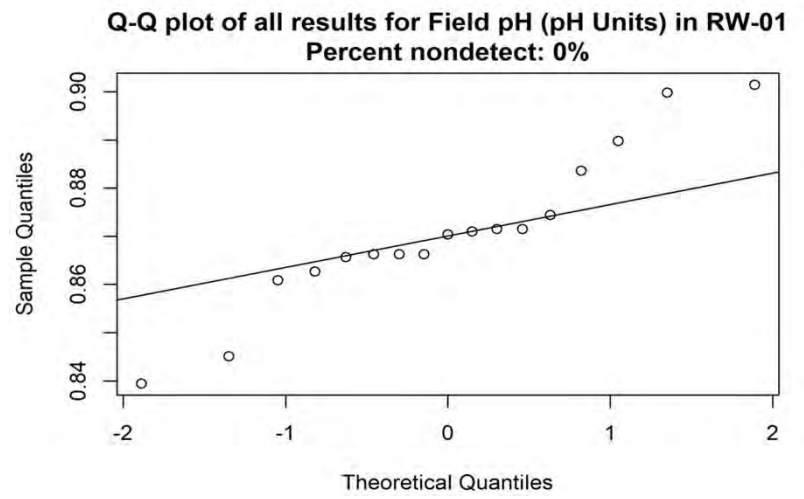
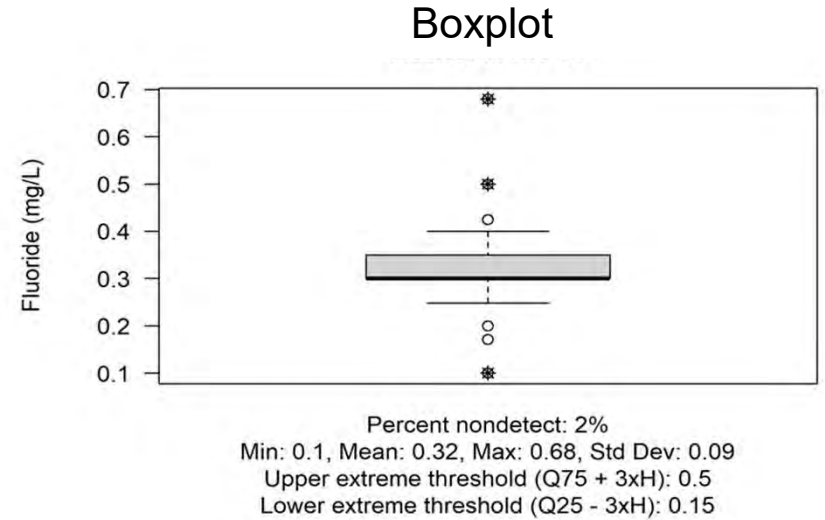
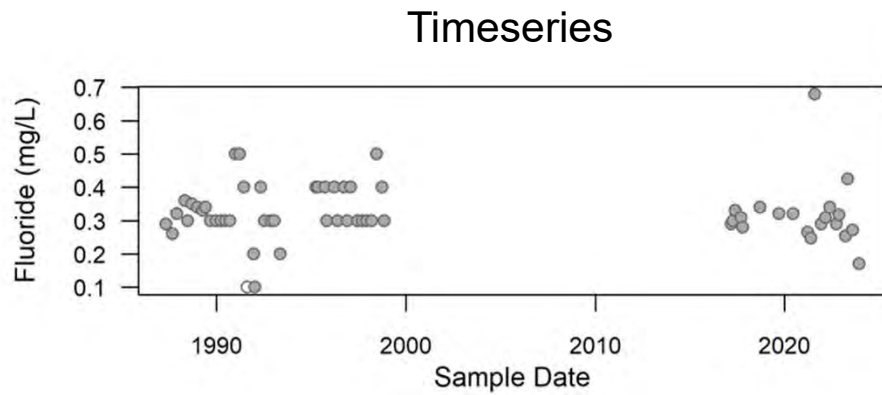


Figure 26
 Statistical Results: Field pH
 (extreme 1 removed)
 Pinyon Plain Mine – POC #4





ProUCL Outlier Test

Rosner's Outlier Test for 1 Outliers in Fluoride

Total N	61
Number NDs	1
Number Detects	61
Mean with NDs=DL/2	0.323
SD with NDs=DL/2	0.0915
Number of data	61
Number of suspected outliers	1
NDs replaced with half value.	

#	Mean	sd	Potential outlier	Obs. Number	Test value	Critical value (5%)	Critical value (1%)
1	0.323	0.0908	0.68	52	3.935	3.206	3.566

For 5% Significance Level, there is 1 Potential Outlier
 Therefore, Observation 0.68 is a Potential Statistical Outlier

For 1% Significance Level, there is 1 Potential Outlier

Probability Plot

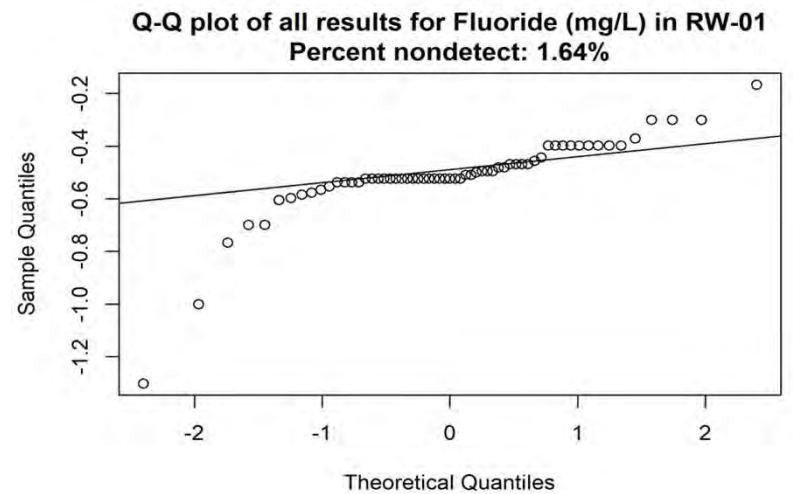
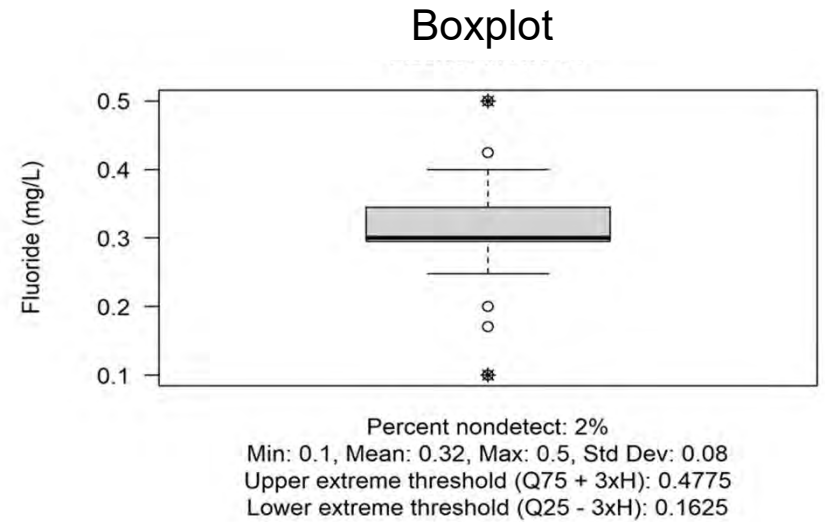
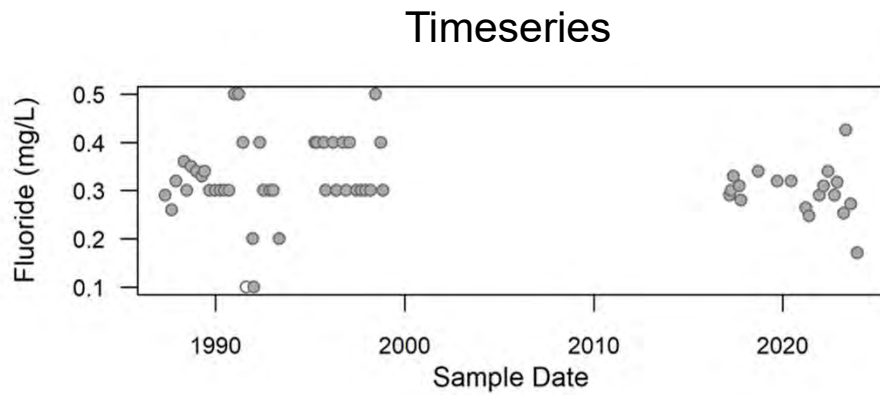


Figure 27
 Statistical Results: Fluoride (all data)
 Pinyon Plain Mine – POC #4



ProUCL Outlier Test

Rosner's Outlier Test for 1 Outliers in Fluoride

Total N	60
Number NDs	1
Number Detects	60
Mean with NDs=DL/2	0.317
SD with NDs=DL/2	0.0795
Number of data	60
Number of suspected outliers	1
NDs replaced with half value.	

#	Mean	sd	Potential outlier	Obs. Number	Test value	Critical value (5%)	Critical value (1%)
1	0.317	0.0789	0.05	18	3.384	3.2	3.56

For 5% Significance Level, there is 1 Potential Outlier
 Therefore, Observation 0.05 is a Potential Statistical Outlier

For 1% Significance Level, there is no Potential Outlier

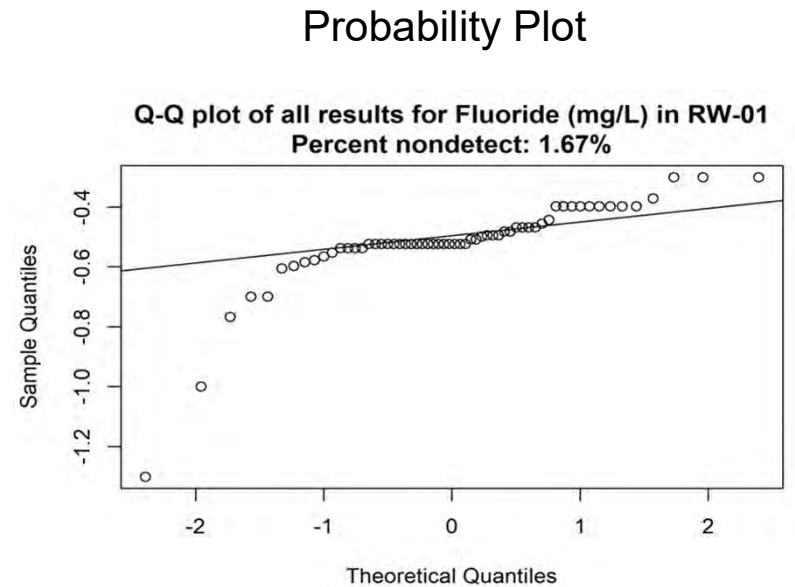
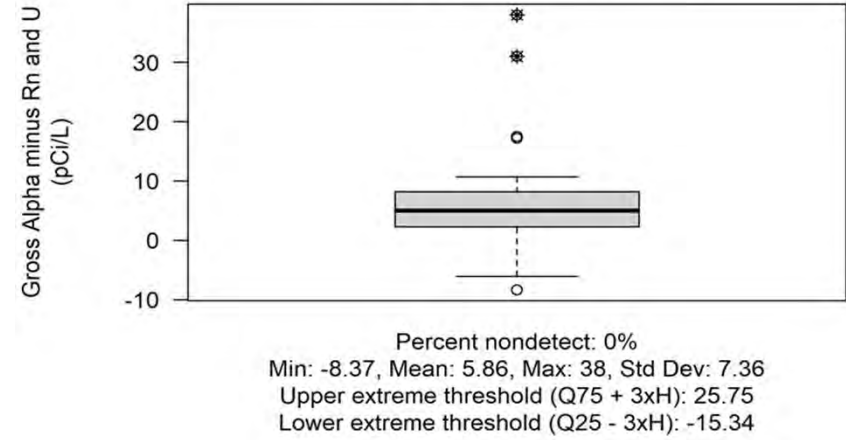
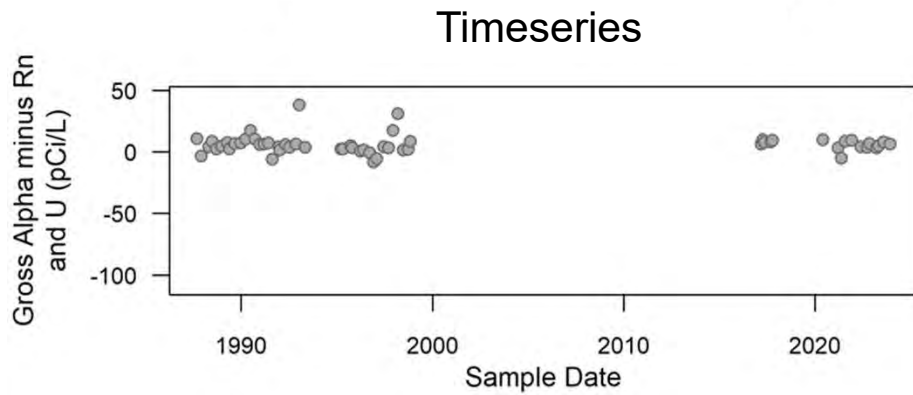


Figure 28
 Statistical Results: Fluoride
 (extreme 1 removed)
 Pinyon Plain Mine – POC #4



ProUCL Outlier Test

Rosner's Outlier Test for 1 Outliers in Gross Alpha minus Rn and U

Total N	57
Number NDs	0
Number Detects	57
Mean with NDs=DL/2	5.857
SD with NDs=DL/2	7.358
Number of data	57
Number of suspected outliers	1
NDs replaced with half value.	

#	Mean	sd	Potential outlier	Obs. Number	Test value	Critical value (5%)	Critical value (1%)
1	5.857	7.294	38	23	4.407	3.179	3.536

For 5% Significance Level, there is 1 Potential Outlier
 Therefore, Observation 38 is a Potential Statistical Outlier

For 1% Significance Level, there is 1 Potential Outlier

Probability Plot

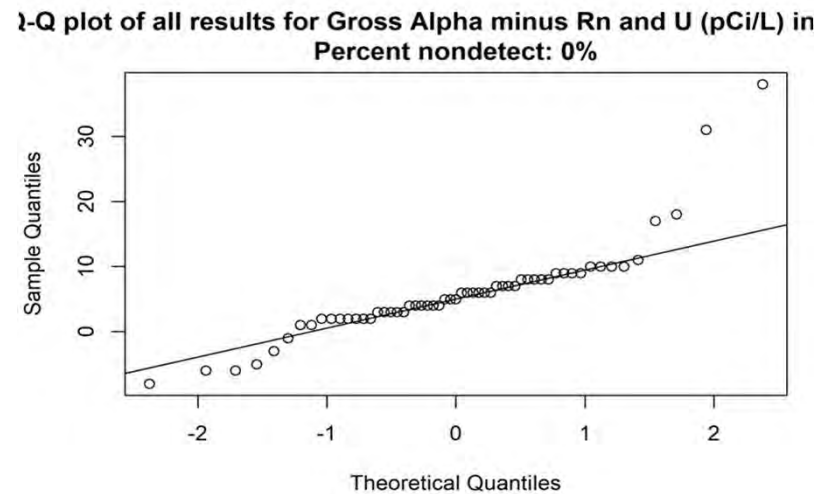
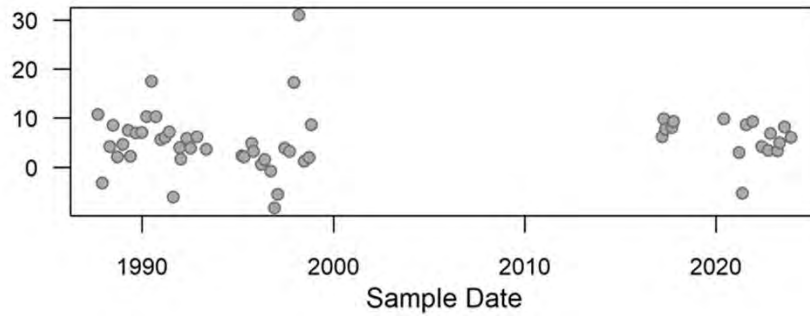


Figure 29
 Statistical Results: Gross Alpha (all data)
 Pinyon Plain Mine – POC #4

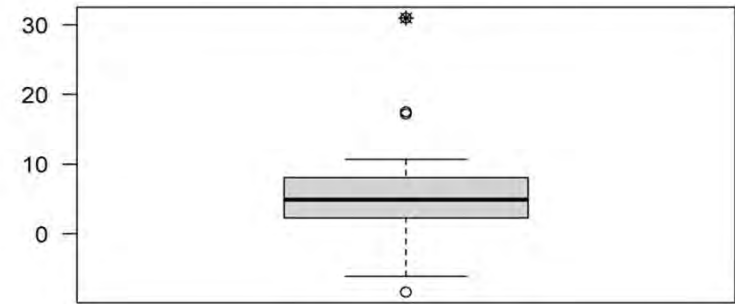
Gross Alpha minus Rn and U (pCi/L)

Timeseries



Gross Alpha minus Rn and U (pCi/L)

Boxplot



Percent nondetect: 0%
 Min: -8.37, Mean: 5.28, Max: 30.98, Std Dev: 6
 Upper extreme threshold (Q75 + 3xH): 25.3825
 Lower extreme threshold (Q25 - 3xH): -15.095

ProUCL Outlier Test

Rosner's Outlier Test for 1 Outliers in Gross Alpha minus Rn and U

Total N	56
Number NDs	0
Number Detects	56
Mean with NDs=DL/2	5.283
SD with NDs=DL/2	6.001
Number of data	56
Number of suspected outliers	1
NDs replaced with half value.	

#	Mean	sd	Potential outlier	Obs. Number	Test value	Critical value (5%)	Critical value (1%)
1	5.283	5.947	30.98	36	4.321	3.172	3.528

For 5% Significance Level, there is 1 Potential Outlier
 Therefore, Observation 30.98 is a Potential Statistical Outlier

For 1% Significance Level, there is 1 Potential Outlier

Probability Plot

Q-Q plot of all results for Gross Alpha minus Rn and U (pCi/L) in
 Percent nondetect: 0%

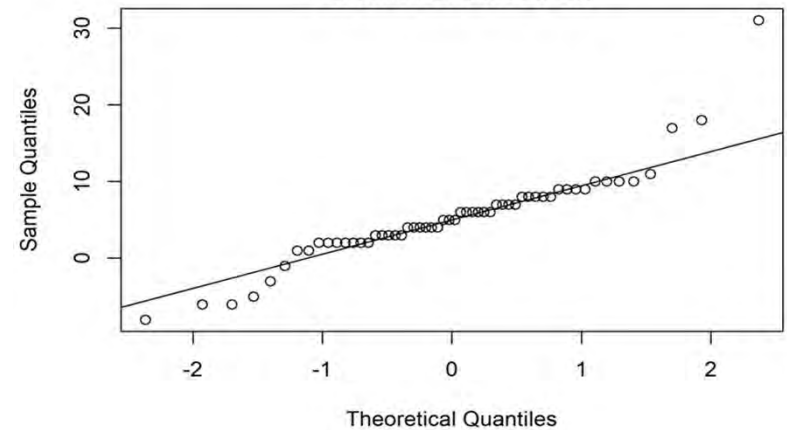


Figure 30
 Statistical Results: Gross Alpha
 (extreme 1 removed)
 Pinyon Plain Mine – POC #4

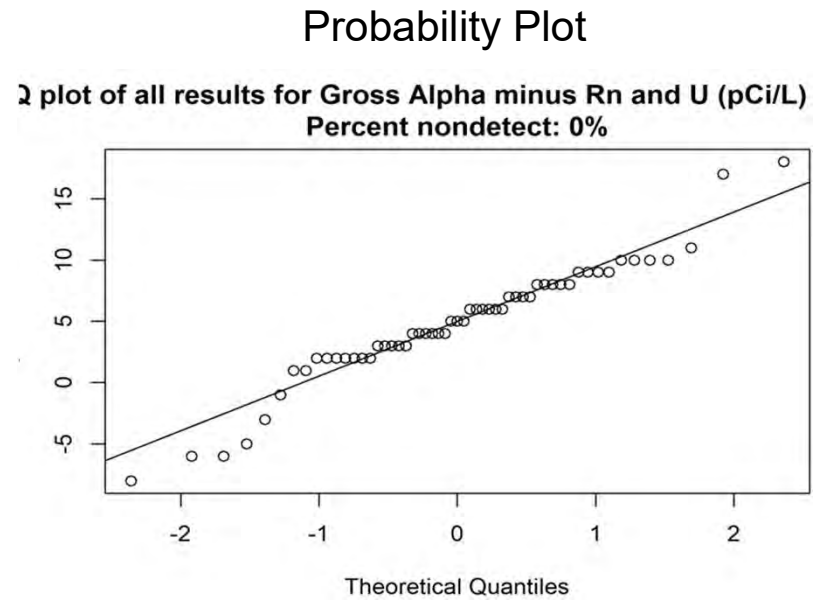
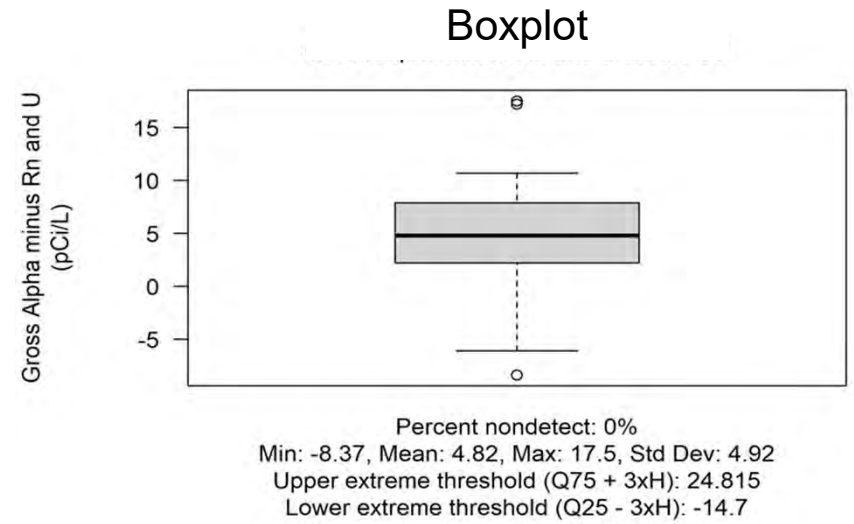
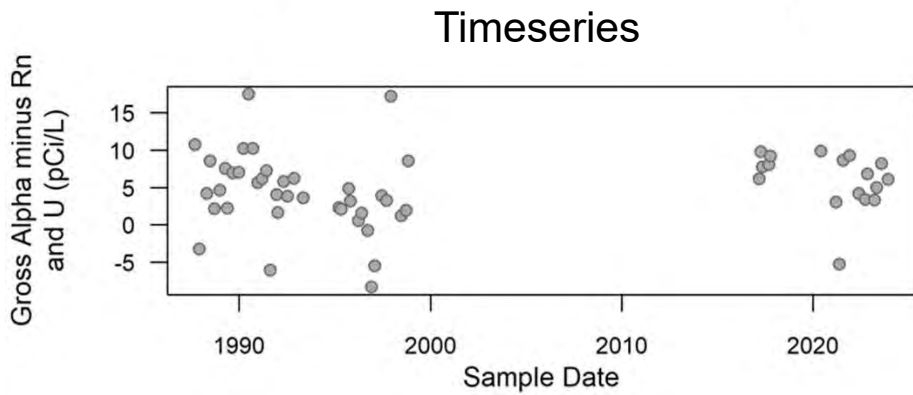
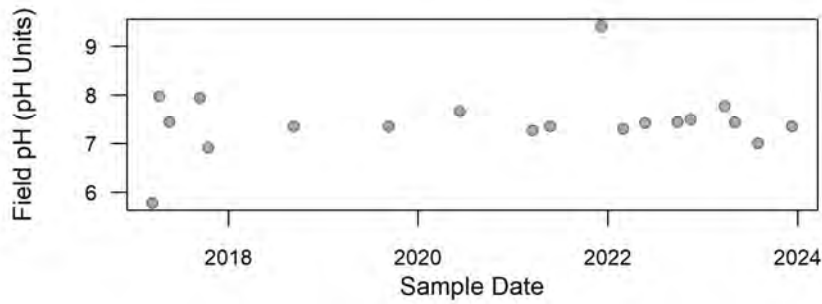
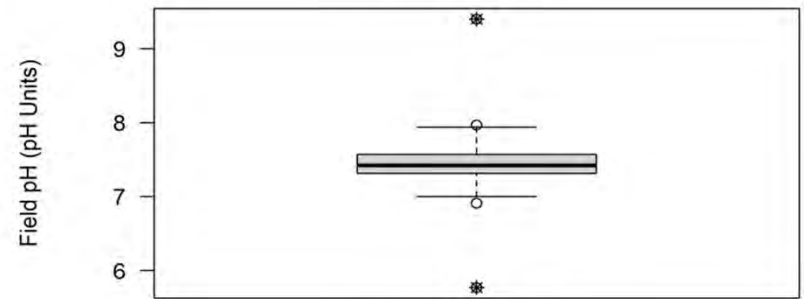


Figure 31
 Statistical Results: Gross Alpha
 (extreme 2 removed)
 Pinyon Plain Mine – POC #4

Timeseries



Boxplot



Percent nondetect: 0%
 Min: 5.77, Mean: 7.45, Max: 9.4, Std Dev: 0.66
 Upper extreme threshold (Q75 + 3xH): 8.335
 Lower extreme threshold (Q25 - 3xH): 6.55

ProUCL Outlier Test

Dixon's Outlier Test for Field pH	
Total N =	19
Number NDs =	0
Number Detects =	19
Number Data (n) =	19
10% critical value:	0.412
5% critical value:	0.462
1% critical value:	0.547
Note: NDs replaced by DL/2 in Outlier Test	
1. Data Value 9.4 is a Potential Outlier (Upper Tail)?	
Test Statistic:	0.608
For 10% significance level, 9.4 is an outlier.	
For 5% significance level, 9.4 is an outlier.	
For 1% significance level, 9.4 is an outlier.	
2. Data Value 5.77 is a Potential Outlier (Lower Tail)?	
Test Statistic:	0.567
For 10% significance level, 5.77 is an outlier.	
For 5% significance level, 5.77 is an outlier.	
For 1% significance level, 5.77 is an outlier.	

Probability Plot

Q-Q plot of all results for Field pH (pH Units) in RW-01
 Percent nondetect: 0%

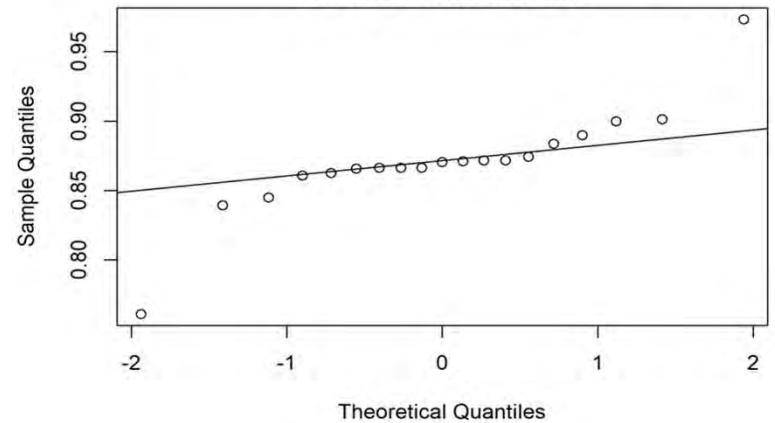
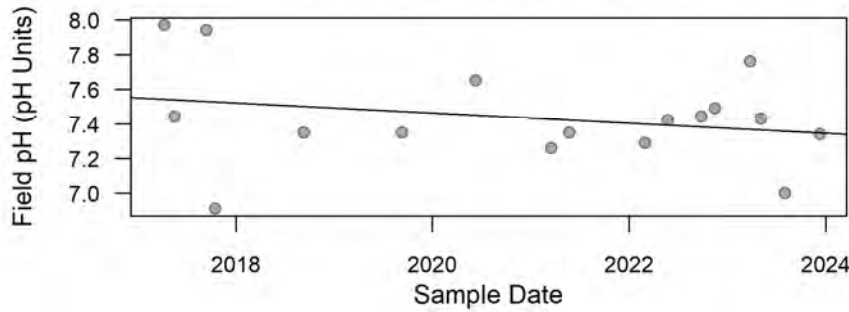
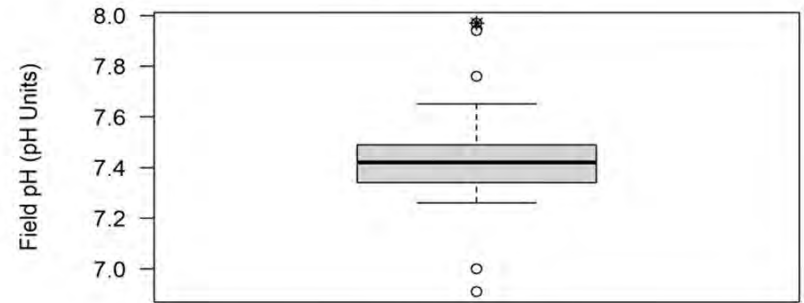


Figure 32
 Statistical Results: Field pH (all data)
 Pinyon Plain Mine – POC #4 (recent dataset)

Timeseries



Boxplot



Percent nondetect: 0%
 Min: 6.91, Mean: 7.43, Max: 7.97, Std Dev: 0.28
 Upper extreme threshold (Q75 + 3xH): 7.94
 Lower extreme threshold (Q25 - 3xH): 6.89

ProUCL Outlier Test

Dixon's Outlier Test for Field pH	
Total N =	17
Number NDs =	0
Number Detects =	17
Number Data (n) =	17
10% critical value:	0.438
5% critical value:	0.49
1% critical value:	0.577
Note:	NDs replaced by DL/2 in Outlier Test
1. Data Value 7.97 is a Potential Outlier (Upper Tail)?	
Test Statistic:	0.296
For 10% significance level, 7.97 is not an outlier.	
For 5% significance level, 7.97 is not an outlier.	
For 1% significance level, 7.97 is not an outlier.	
2. Data Value 6.91 is a Potential Outlier (Lower Tail)?	
Test Statistic:	0.412
For 10% significance level, 6.91 is not an outlier.	
For 5% significance level, 6.91 is not an outlier.	
For 1% significance level, 6.91 is not an outlier.	

Probability Plot

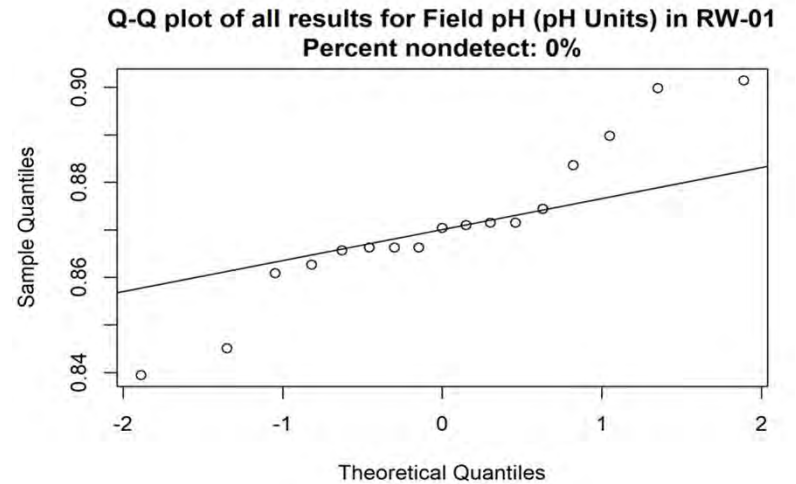
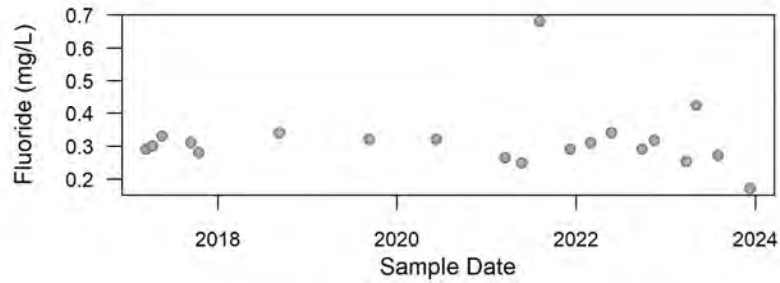
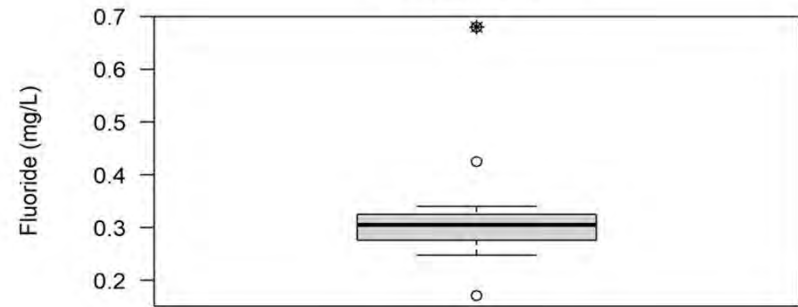


Figure 33
 Statistical Results: Field pH
 (extreme 1 removed)
 Pinyon Plain Mine – POC #4 (recent dataset)

Timeseries



Boxplot



Percent nondetect: 0%
 Min: 0.171, Mean: 0.32, Max: 0.68, Std Dev: 0.1
 Upper extreme threshold (Q75 + 3xH): 0.456
 Lower extreme threshold (Q25 - 3xH): 0.1445

ProUCL Outlier Test

Dixon's Outlier Test for Fluoride	
Total N =	20
Number NDs =	0
Number Detects =	20
Number Data (n) =	20
10% critical value:	0.401
5% critical value:	0.45
1% critical value:	0.535
Note: NDs replaced by DL/2 in Outlier Test	
1. Data Value 0.68 is a Potential Outlier (Upper Tail)?	
Test Statistic:	0.796
For 10% significance level, 0.68 is an outlier.	
For 5% significance level, 0.68 is an outlier.	
For 1% significance level, 0.68 is an outlier.	
2. Data Value 0.171 is a Potential Outlier (Lower Tail)?	
Test Statistic:	0.485
For 10% significance level, 0.171 is an outlier.	
For 5% significance level, 0.171 is an outlier.	
For 1% significance level, 0.171 is not an outlier.	

Probability Plot

Q-Q plot of all results for Fluoride (mg/L) in RW-01
 Percent nondetect: 0%

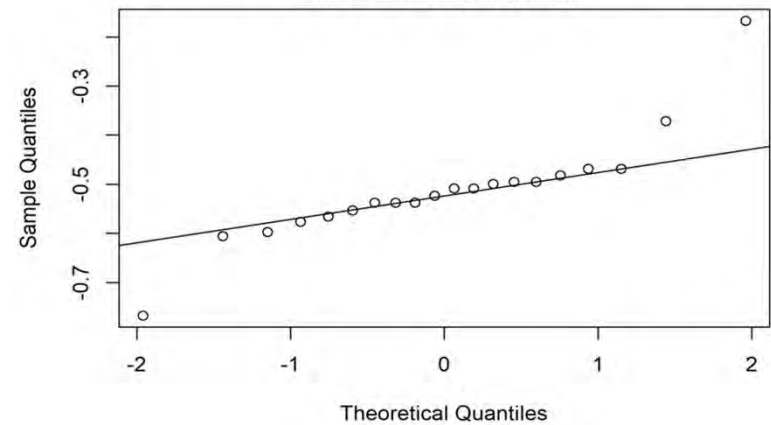
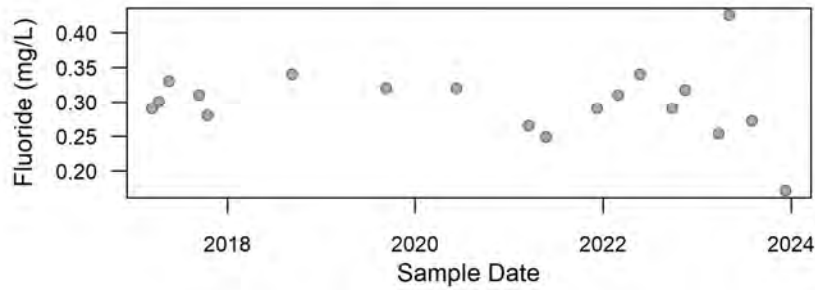


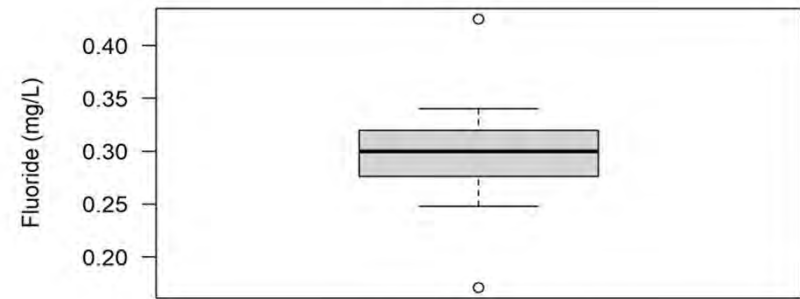
Figure 34

Statistical Results: Fluoride (all data)
 Pinyon Plain Mine – POC #4 (recent dataset)

Timeseries



Boxplot

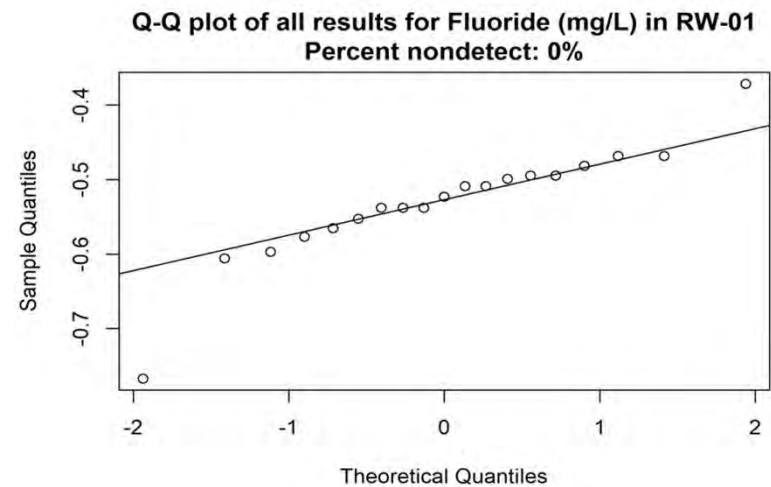


Percent nondetect: 0%
 Min: 0.171, Mean: 0.3, Max: 0.425, Std Dev: 0.05
 Upper extreme threshold (Q75 + 3xH): 0.452
 Lower extreme threshold (Q25 - 3xH): 0.144

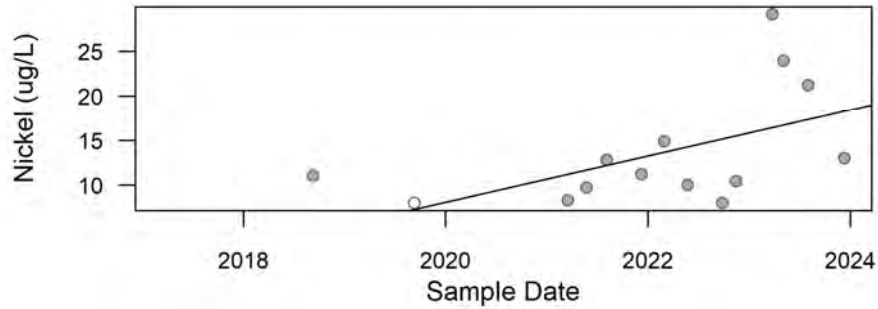
ProUCL Outlier Test

Dixon's Outlier Test for Fluoride	
Total N =	19
Number NDs =	0
Number Detects =	19
Number Data (n) =	19
10% critical value:	0.412
5% critical value:	0.462
1% critical value:	0.547
Note: NDs replaced by DL/2 in Outlier Test	
1. Data Value 0.425 is a Potential Outlier (Upper Tail)?	
Test Statistic:	0.494
For 10% significance level, 0.425 is an outlier.	
For 5% significance level, 0.425 is an outlier.	
For 1% significance level, 0.425 is not an outlier.	
2. Data Value 0.171 is a Potential Outlier (Lower Tail)?	
Test Statistic:	0.485
For 10% significance level, 0.171 is an outlier.	
For 5% significance level, 0.171 is an outlier.	
For 1% significance level, 0.171 is not an outlier.	

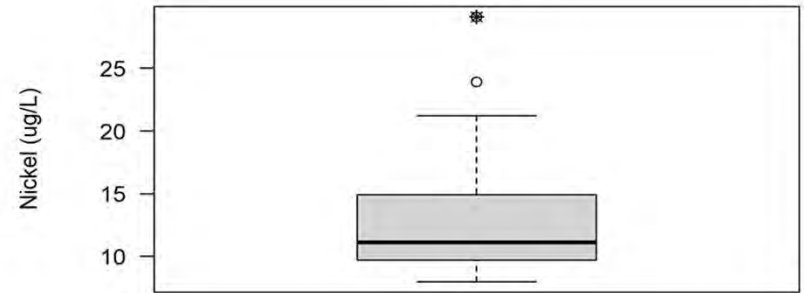
Probability Plot



Timeseries



Boxplot



Percent nondetect: 7%
 Min: 7.96, Mean: 13.68, Max: 29.1, Std Dev: 6.5
 Upper extreme threshold (Q75 + 3xH): 28.375
 Lower extreme threshold (Q25 - 3xH): -4.17500000000001

ProUCL Outlier Test

Dixon's Outlier Test for Nickel	
Total N =	14
Number NDs =	1
Number Detects =	13
Number Data (n) =	14
10% critical value:	0.492
5% critical value:	0.546
1% critical value:	0.641
Note: NDs replaced by DL/2 in Outlier Test	
1. Data Value 29.1 is a Potential Outlier (Upper Tail)?	
Test Statistic:	0.380
For 10% significance level, 29.1 is not an outlier.	
For 5% significance level, 29.1 is not an outlier.	
For 1% significance level, 29.1 is not an outlier.	
2. Data Value 4 is a Potential Outlier (Lower Tail)?	
Test Statistic:	0.250
For 10% significance level, 4 is not an outlier.	
For 5% significance level, 4 is not an outlier.	
For 1% significance level, 4 is not an outlier.	

Probability Plot

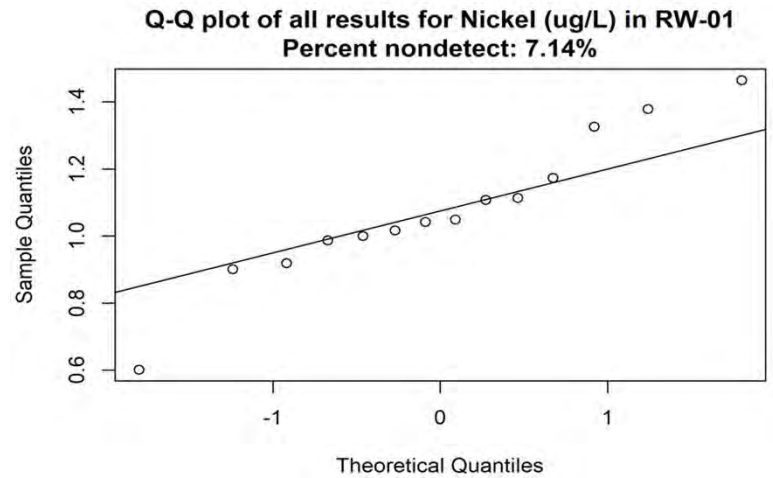


Figure 36
 Statistical Results: Nickel
 Pinyon Plain Mine – POC #4 (recent dataset)

Tables

Table 1. Statistics Summary for Point of Compliance Well POC #1

Statistical Analysis of All Constituents with an Established Numeric AWQS and Uranium in POC #1, POC #2, POC #3, and POC #4 at the Pinyon Plain Mine

Well	Constituent	Unit	Dataset Description	N	% ND	Mean	SD	Min	Median	Max	Number of Outliers Removed	Shapiro-Wilk Test for Normality		Normal?	Shapiro -Wilk Test for log Normality ¹		Log normal?	Kolmogorov-Smirnov Test		Gamma?	Mann-Kendall Trend Test		Significant Trend? ²
												SW	p		SW	p		D	crt. value		S	p	
POC #1	Antimony	ug/L	full dataset	12	17%	5.26	2.96	2.15	4.14	10.9	0	0.839	0.030	No	0.928	0.415	Yes	0.219	0.246	Yes	-27	0.037	Significant, decreasing
POC #1	Arsenic	ug/L	full dataset	12	0%	70.84	53.75	24.30	43.10	178.0	0	0.803	0.011	No	0.899	0.211	Yes	0.256	0.248	No	-46	0.001	Significant, decreasing
POC #1	Barium	ug/L	full dataset	12	0%	27.23	3.24	21.50	27.25	32.9	0	0.991	0.999	Yes	0.987	0.993	Yes	0.099	0.245	Yes	38	0.006	Significant, increasing
POC #1	Beryllium	ug/L	full dataset	12	50%	Only one distinct data value was detected.																	
POC #1	Cadmium	ug/L	full dataset	12	50%	Only one distinct data value was detected.																	
POC #1	Chromium	ug/L	full dataset	12	92%	Too few detected data																	
POC #1	Field pH	s.u.	full dataset	12	0%	7.49	0.69	7.00	7.34	9.56	0	0.636	0.000	No	0.675	0.000	No	0.282	0.245	No	-4	0.419	Not significant, decreasing
POC #1	Field pH	s.u.	full dataset; extreme outlier removed	11	0%	7.30	0.24	7.00	7.27	7.70	1	0.928	0.506	Yes	0.929	0.520	Yes	0.197	0.254	Yes	1	0.500	Not significant, increasing
POC #1	Fluoride	mg/L	full dataset	12	0%	0.20	0.07	0.09	0.20	0.28	0	0.898	0.193	Yes	0.887	0.119	Yes	0.219	0.246	Yes	-29	0.027	Significant, decreasing
POC #1	Gross Alpha minus Rn and U	pCi/L	full dataset	11	0%	14.69	15.59	-7.70	18.30	47.00	0	0.945	0.519	Yes	--	--	No	--	--	No	25	0.031	Significant, increasing
POC #1	Lead	ug/L	full dataset	12	67%	Too few detected data																	
POC #1	Mercury	ug/L	full dataset	12	50%	Only one distinct data value was detected.																	
POC #1	Nickel	ug/L	full dataset	12	0%	108.59	69.95	53.40	78.65	276	0	0.782	0.005	No	0.889	0.137	Yes	0.201	0.247	Yes	-46	0.001	Significant, decreasing
POC #1	Nitrate + Nitrite as N	mg/L	full dataset	12	92%	Too few detected data																	
POC #1	Combined Radium-226 and Radium-228 ³	pCi/L	full dataset	12	0%	3.92	1.05	1.98	4.04	5.62	0	0.963	0.793	Yes	0.925	0.305	Yes	0.176	0.245	Yes	24	0.057	Not significant, increasing
POC #1	Selenium	ug/L	full dataset	12	75%	Too few detected data																	
POC #1	Thallium	ug/L	full dataset	9	0%	1.38	0.44	0.893	1.23	2.15	0	0.918	0.46251	Yes	0.945	0.780	yes	0.17131	0.279	Yes	-26	0.005	Significant, decreasing
POC #1	Uranium ⁴	ug/L	full dataset	12	0%	15.07	10.62	7.12	11.10	43.70	0	0.747	0.001	No	0.904	0.186	Yes	0.196	0.247	Yes	-54	0.000	Significant, decreasing

Notes:

- N = size of dataset
- % ND = percentage of non-detect results
- mg/L = milligrams per liter
- ug/L = micrograms per liter
- SD = standard deviation
- SW = test statistic for the Shapiro-Wilk test for normality
- p = p-value for statistical test
- D = test statistic for the Kolmogorov-Smirnov test for a gamma distribution
- crt. Value = the critical value compared against the test statistic for the Kolmogorov-Smirnov Test
- S = test statistic for the Mann-Kendall test for a significant trend
- ¹Shapiro-wilk test for log-normality could not be tested for datasets with only one distinct value or negative values
- ²Some trends may be due to laboratory detection limit changes and not changes in measured values
- ³Combined Radium includes censored datasets containing negative measurements
- ⁴Retained extreme outlier because earlier concentrations might be more representative of background

Table 2. Statistics Summary for Point of Compliance Well POC #2

Statistical Analysis of All Constituents with an Established Numeric AWQS and Uranium in POC #1, POC #2, POC #3, and POC #4 at the Pinyon Plain Mine

Well	Constituent	Unit	Dataset Description	N	% ND	Mean	SD	Min	Median	Max	Number of Outliers Removed	Shapiro-Wilk Test for Normality		Normal?	Shapiro -Wilk Test for log Normality ¹		Log normal?	Kolmogorov-Smirnov Test		Gamma?	Mann-Kendall Trend Test		Significant Trend? ²
												SW	p		SW	p		D	crt. value		S	p	
POC #2	Antimony	ug/L	full dataset	12	67%	Too few detected data																	
POC #2	Arsenic	ug/L	full dataset	12	25%	6.17	6.95	2.2	4.47	27.50	0	0.556	1.0E-05	No	0.846	0.028	No	0.28015	0.249	No	3	0.473	Not significant, increasing
POC #2	Arsenic	ug/L	full dataset; extreme outlier removed	11	27%	4.23	1.87	2.2	3.67	6.63	1	0.840	0.061	No	0.839	0.062	No	0.20307	0.256	Yes	-4	0.381	Not significant, decreasing
POC #2	Barium	ug/L	full dataset	12	0%	46.73	12.73	7.08	49.55	54.00	0	0.511	0.000	No	0.407	0.000	No	0.456	0.246	No	-19	0.108	Not significant, decreasing
POC #2	Barium	ug/L	full dataset; extreme outlier removed	11	0%	50.34	2.59	45.90	49.60	54.00	1	0.954	0.782	Yes	0.954	0.770	Yes	0.168	0.254	Yes	-12	0.195	Not significant, decreasing
POC #2	Beryllium	ug/L	full dataset	12	100%	Too few detected data																	
POC #2	Cadmium	ug/L	full dataset	12	75%	Too few detected data																	
POC #2	Chromium	ug/L	full dataset	12	83%	Too few detected data																	
POC #2	Field pH	s.u.	full dataset	12	0%	7.63	0.93	6.94	7.39	10.43	0	0.614	0.000	No	0.662	0.000	No	0.313	0.245	No	-14	0.186	Not significant, decreasing
POC #2	Field pH	s.u.	full dataset; extreme outlier removed	11	0%	7.37	0.30	6.94	7.38	8.02	1	0.961	0.688	Yes	0.969	0.801	Yes	0.113	0.254	Yes	-9	0.267	Not significant, decreasing
POC #2	Fluoride	mg/L	full dataset	12	0%	0.17	0.11	0.07	0.14	0.49	0	0.710	0.000	No	0.909	0.153	Yes	0.272	0.247	No	1	0.500	Not significant, increasing
POC #2	Fluoride	mg/L	full dataset; extreme outlier removed	11	0%	0.14	0.06	0.07	0.13	0.28	1	0.861	0.040	No	0.963	0.645	Yes	0.171	0.256	Yes	-6	0.347	Not significant, decreasing
POC #2	Gross Alpha minus Rn and U	pCi/L	full dataset	11	0%	-2.72	35.81	-110	6.30	17.30	0	0.451	0.000	No	--	--	--	--	--	--	19	0.081	Not significant, increasing
POC #2	Gross Alpha minus Rn and U	pCi/L	full dataset; extreme outlier removed	10	0%	8.01	4.30	4.10	6.55	17.30	1	0.844	0.049	Yes	0.934	0.563	Yes	0.190	0.268	Yes	11	0.186	Not significant, increasing
POC #2	Lead	ug/L	full dataset	12	83%	Too few detected data																	
POC #2	Mercury	ug/L	full dataset	12	100%	Too few detected data																	
POC #2	Nickel	ug/L	full dataset	12	0%	34.38	54.45	15.60	17.85	207.00	0	0.373	0.000	No	0.510	0.000	No	0.427	0.250	No	-4	0.419	Not significant, decreasing
POC #2	Nickel	ug/L	full dataset; extreme outlier removed	11	0%	18.68	3.22	15.60	17.70	25.60	1	0.823	0.021	No	0.863	0.068	Yes	0.215	0.255	Yes	-11	0.218	Not significant, decreasing
POC #2	Nitrate + Nitrite as N	mg/L	full dataset	13	100%	Too few detected data																	
POC #2	Combined Radium-226 and Radium-228 ³	pCi/L	full dataset	12	0%	3.17	1.26	1.37	2.74	6.10	0	0.859	0.033	No	0.920	0.191	Yes	0.215	0.246	Yes	10	0.269	Not significant, increasing
POC #2	Combined Radium-226 and Radium-228 ³	pCi/L	full dataset; extreme outlier removed	11	0%	2.91	0.90	1.37	2.70	4.90	1	0.892	0.083	Yes	0.896	0.090	Yes	0.247	0.255	Yes	19	0.082	Not significant, increasing
POC #2	Selenium	ug/L	full dataset	12	100%	Too few detected data																	
POC #2	Thallium	ug/L	full dataset	9	0%	0.803	0.361874	0.168	0.76	1.52	0	0.878	0.076	Yes	0.7677858	0.0043426	No	0.295	0.280	No	-20	0.024	Significant, decreasing
POC #2	Uranium	ug/L	full dataset	12	0%	5.91	1.51	4.19	5.49	9.57	0	0.872	0.057	Yes	0.936	0.401	Yes	0.192	0.245	Yes	-28	0.032	Significant, decreasing

Notes:

- N = size of dataset
- % ND = percentage of non-detect results
- mg/L = milligrams per liter
- ug/L = micrograms per liter
- SD = standard deviation
- SW = test statistic for the Shapiro-Wilk test for normality
- p = p-value for statistical test
- D = test statistic for the Kolmogorov-Smirnov test for a gamma distribution
- crt. Value = the critical value compared against the test statistic for the Kolmogorov-Smirnov Test
- S = test statistic for the Mann-Kendall test for a significant trend
- ¹Shapiro-wilk test for log-normality could not be tested for datasets with only one distinct value or negative values
- ²Some trends may be due to laboratory detection limit changes and not changes in measured values
- ³Combined Radium includes censored datasets containing negative measurements

Table 3. Statistics Summary for Point of Compliance Well POC #3

Statistical Analysis of All Constituents with an Established Numeric AWQS and Uranium in POC #1, POC #2, POC #3, and POC #4 at the Pinyon Plain Mine

Well	Constituent	Unit	Dataset Description	N	% ND	Mean	SD	Min	Median	Max	Number of Outliers Removed	Shapiro-Wilk Test for Normality		Normal?	Shapiro -Wilk Test for log Normality ¹		Log normal?	Kolmogorov-Smirnov Test		Gamma?	Mann-Kendall Trend Test		Significant Trend? ²
												SW	p		SW	p		D	crt. value		S	p	
POC #3	Antimony	ug/L	full dataset	12	92%	Too few detected data																	
POC #3	Arsenic	ug/L	full dataset	12	8%	17.8	9.2	2.2	19.1	32.0	0	0.9723	0.950	Yes	0.856	0.036	No	0.17693	0.248	Yes	-4	0.419	Not significant, decreasing
POC #3	Barium	ug/L	full dataset	12	0%	12.2	12.1	1.9	8.7	49.2	0	0.581	0.000	No	0.857	0.020	No	0.292	0.249	No	-16	0.152	Not significant, decreasing
POC #3	Barium	ug/L	full dataset; extreme outlier removed	11	0%	8.8	3.5	1.9	8.5	15.5	1	0.919	0.199	Yes	0.781	0.004	No	0.217	0.256	Yes	-23	0.043	Significant, decreasing
POC #3	Beryllium	ug/L	full dataset	12	100%	Too few detected data																	
POC #3	Cadmium	ug/L	full dataset	12	92%	Too few detected data																	
POC #3	Chromium	ug/L	full dataset	12	100%	Too few detected data																	
POC #3	Field pH	s.u.	full dataset	13	0%	7.59	1.06	6.47	7.15	10.43	0	0.801	0.005	No	0.849	0.022	No	0.203	0.236	Yes	2	0.476	Not significant, increasing
POC #3	Field pH	s.u.	full dataset; extreme outlier removed	12	0%	7.36	0.67	6.47	7.14	9.01	1	0.895	0.097	Yes	0.923	0.234	Yes	0.204	0.245	Yes	6	0.366	Not significant, increasing
POC #3	Fluoride	mg/L	full dataset	12	58%	Too few detected data																	
POC #3	Gross Alpha minus Rn and U	pCi/L	full dataset	11	0%	5.39	6.57	-4.73	3.70	17.40	0	0.959	0.755	Yes	--	--	--	--	--	--	5	0.378	Not significant, increasing
POC #3	Lead	ug/L	full dataset	12	92%	Too few detected data																	
POC #3	Mercury	ug/L	full dataset	12	50%	Only one distinct data value was detected.																	
POC #3	Nickel	ug/L	full dataset	12	0%	201.5	82.3	16.6	194.0	357.0	0	0.918	0.162	Yes	0.629	0.000	No	0.310	0.247	No	-22	0.075	Not significant, decreasing
POC #3	Nitrate + Nitrite as N	mg/L	full dataset	12	100%	Too few detected data																	
POC #3	Combined Radium-226 and Radium-228 ³	pCi/L	full dataset	12	0%	2.18	0.64	1.19	2.17	3.30	0	0.979	0.979	Yes	0.980	0.980	Yes	0.104	0.245	Yes	12	0.225	Not significant, increasing
POC #3	Selenium	ug/L	full dataset	12	92%	Too few detected data																	
POC #3	Thallium	ug/L	full dataset	9	11%	0.45928	0.33207	0.0605	0.33	1.14	0	0.88951	0.167	Yes	0.923	0.312	Yes	0.17646	0.282	Yes	-24	0.006	Significant, decreasing
POC #3	Uranium	ug/L	full dataset	12	0%	6.38	2.69	4.10	5.30	13.60	0	0.747	0.001	No	0.850	0.031	No	0.303	0.246	No	-2	0.473	Not significant, decreasing

Notes:

- N = size of dataset
- % ND = percentage of non-detect results
- mg/L = milligrams per liter
- ug/L = micrograms per liter
- SD = standard deviation
- SW = test statistic for the Shapiro-Wilk test for normality
- p = p-value for statistical test
- D = test statistic for the Kolmogorov-Smirnov test for a gamma distribution
- crt. Value = the critical value compared against the test statistic for the Kolmogorov-Smirnov Test
- S = test statistic for the Mann-Kendall test for a significant trend
- ¹Shapiro-wilk test for log-normality could not be tested for datasets with only one distinct value or negative values
- ²Some trends may be due to laboratory detection limit changes and not changes in measured values
- ³Combined Radium includes censored datasets containing negative measurements

Table 4. Statistics Summary for All Data in Point of Compliance Well POC #4

Statistical Analysis of All Constituents with an Established Numeric AWQS and Uranium in POC #1, POC #2, POC #3, and POC #4 at the Pinyon Plain Mine

Well	Constituent	Unit	Dataset Description	N	% ND	Mean	SD	Min	Median	Max	Number of Outliers Removed	Shapiro-Wilk Test for Normality		Normal?	Shapiro -Wilk Test for log Normality ¹		Log normal?	Kolmogorov-Smirnov Test		Gamma?	Mann-Kendall Trend Test		Significant Trend? ²
												SW	p		SW	p		D	crt. value		S	p	
POC #4	Antimony	ug/L	full dataset	16	100%	Too few detected data																	
POC #4	Barium	ug/L	full dataset	28	18%	91.6	53.1	9.0	88.4	300	0	0.710	0.000	No	0.789	0.000	No	0.266	0.166	No	-198	0.000	Significant, decreasing
POC #4	Barium	ug/L	full dataset; extreme outlier removed	27	19%	83.9	34.6	9.0	87.9	200	1	0.833	0.000	No	0.734	0.000	No	0.310	0.168	No	-171	0.000	Significant, decreasing
POC #4	Barium	ug/L	full dataset; two extreme outliers removed	26	19%	79.4	26.2	9.0	84.4	150	2	0.882	0.006	No	0.670	0.000	No	0.273	0.171	No	-145	0.001	Significant, decreasing
POC #4	Beryllium	ug/L	full dataset	16	100%	Too few detected data																	
POC #4	Cadmium	ug/L	full dataset	29	100%	Too few detected data																	
POC #4	Chromium	ug/L	full dataset	29	97%	Too few detected data																	
POC #4	Field pH	s.u.	full dataset	19	0%	7.45	0.66	5.77	7.42	9.40	0	0.811	0.001	No	0.814	0.001	No	0.235	0.198	No	1	0.500	Not significant, increasing
POC #4	Field pH	s.u.	full dataset; two extreme outliers removed	17	0%	7.43	0.28	6.91	7.42	7.97	2	0.929	0.204	Yes	0.932	0.225	Yes	0.193	0.208	No	-18	0.241	Not significant, decreasing
POC #4	Fluoride	mg/L	full dataset	61	2%	0.32	0.09	0.05	0.30	0.68	0	0.894	0.000	No	0.764	0.000	No	0.228	0.114	No	-121	0.224	Not significant, decreasing
POC #4	Fluoride	mg/L	full dataset; extreme outlier removed	60	2%	0.32	0.08	0.05	0.30	0.50	1	0.904	0.000	No	0.722	0.000	No	0.239	0.115	No	-163	0.147	Not significant, decreasing
POC #4	Gross Alpha minus Rn and U	pCi/L	full dataset	57	0%	5.86	7.36	-8.37	4.98	38.00	0	0.823	0.000	No	--	--	--	--	--	--	-4	0.492	Not significant, decreasing
POC #4	Gross Alpha minus Rn and U	pCi/L	full dataset; extreme outlier removed	56	0%	5.28	6.00	-8.37	4.90	30.98	1	0.902	0.000	No	--	--	--	--	--	--	8	0.480	Not significant, increasing
POC #4	Gross Alpha minus Rn and U	pCi/L	full dataset; two extreme outliers removed	55	0%	4.82	4.92	-8.37	4.81	17.50	2	0.955	0.077	Yes	--	--	--	--	--	--	-7	0.483	Not significant, decreasing
POC #4	Lead	ug/L	full dataset	33	67%	Too few detected data																	
POC #4	Mercury	ug/L	full dataset	28	79%	Too few detected data																	
POC #4	Nickel	ug/L	full dataset	17	24%	15.7	7.4	8.0	12.8	29.1	0	0.849	0.010	No	0.883	0.047	No	0.191	0.210	Yes	-5	0.434	Not significant, decreasing
POC #4	Nitrate + Nitrite as N	mg/L	full dataset	26	8%	0.11	0.05	0.02	0.10	0.21	0	0.958	0.381	Yes	0.844	0.001	No	0.216	0.172	No	-79	0.043	Significant, decreasing
POC #4	Combined Radium-226 and Radium-228 ³	pCi/L	full dataset	20	0%	5.25	1.29	2.40	5.37	7.58	0	0.970	0.751	Yes	0.930	0.162	Yes	0.104	0.194	Yes	54	0.043	Significant, increasing
POC #4	Selenium	ug/L	full dataset	29	34%	5.56	2.43	1.00	5.40	10.10	0	0.966	0.051	Yes	0.869	0.002	No	0.16717	0.164	Yes	135	0.006	Significant, increasing
POC #4	Thallium	ug/L	full dataset	16	100%	Too few detected data																	

Notes:

- N = size of dataset
- % ND = percentage of non-detect results
- mg/L = milligrams per liter
- ug/L = micrograms per liter
- SD = standard deviation
- SW = test statistic for the Shapiro-Wilk test for normality
- p = p-value for statistical test
- D = test statistic for the Kolmogorov-Smirnov test for a gamma distribution
- crt. Value = the critical value compared against the test statistic for the Kolmogorov-Smirnov Test
- S = test statistic for the Mann-Kendall test for a significant trend
- ¹Shapiro-wilk test for log-normality could not be tested for datasets with only one distinct value or negative values
- ²Some trends may be due to laboratory detection limit changes and not changes in measured values
- ³Combined Radium includes censored datasets containing negative measurements

Table 5. Statistics Summary for Recent Data in Point of Compliance Well POC #4

Statistical Analysis of All Constituents with an Established Numeric AWQS and Uranium in POC #1, POC #2, POC #3, and POC #4 at the Pinyon Plain Mine

Well	Constituent	Unit	Dataset Description	N	% ND	Mean	SD	Min	Median	Max	Number of Outliers Removed	Shapiro-Wilk Test for Normality		Normal?	Shapiro -Wilk Test for log Normality ¹		Log normal?	Kolmogorov-Smirnov Test		Gamma?	Mann-Kendall Trend Test		Significant Trend? ²
												SW	p		SW	p		D	crit. value		S	p	
POC #4	Antimony	ug/L	recent dataset	13	100%	Too few detected data																	
POC #4	Barium	ug/L	recent dataset	13	0%	0.084	0.003	78.50	84.50	88.80	0	0.946	0.610	Yes	0.941	0.543	Yes	0.140	0.236	Yes	-28	0.050	Significant, decreasing
POC #4	Beryllium	ug/L	recent dataset	13	100%	Too few detected data																	
POC #4	Cadmium	ug/L	recent dataset	14	100%	Too few detected data																	
POC #4	Chromium	ug/L	recent dataset	14	100%	Too few detected data																	
POC #4	Field pH	s.u.	recent dataset	19	0%	7.45	0.661	5.77	7.42	9.40	0	0.81053	0.001	No	0.814	0.001	No	0.235	0.198	No	1	0.5	Not significant, increasing
POC #4	Field pH	s.u.	recent dataset; extreme outlier removed	17	0%	7.43	0.28	6.91	7.42	7.97	2	0.92937	0.204	Yes	0.932	0.225	Yes	0.193	0.208	Yes	-18	0.2	Not significant, decreasing
POC #4	Fluoride	mg/L	recent dataset	20	0%	0.32	0.10	0.17	0.31	0.68	0	0.69373	0.000	No	0.840	0.002	No	0.263	0.194	No	-24	0.227	Not significant, decreasing
POC #4	Fluoride	mg/L	recent dataset; extreme outlier removed	19	0%	0.30	0.05	0.17	0.30	0.43	1	0.92753	0.132	Yes	0.887	0.022	Yes	0.148	0.198	Yes	-25	0.200	Not significant, decreasing
POC #4	Gross Alpha minus Rn and U	pCi/L	recent dataset	17	0%	6.07	3.75	-5.30	6.81	9.86	0	0.83028	0.004	Yes	--	--	--	--	--	--	-24	0.172	Not significant, decreasing
POC #4	Lead	ug/L	recent dataset	18	44%	0.76	0.731665	0.05	0.34	2.30	0	0.79459	0.001	No	0.894	0.056	No	0.24679	0.210	No	85	0.001	Significant, increasing
POC #4	Mercury	ug/L	recent dataset	13	100%	Too few detected data																	
POC #4	Nickel	ug/L	recent dataset	14	7%	13.68	6.50	7.96	11.10	29.10	0	0.8783	0.050	Yes	0.952	0.496	Yes	0.176	0.230	Yes	37	0.024	Significant, increasing
POC #4	Nitrate + Nitrite as N	mg/L	recent dataset	21	10%	0.09	0.04	0.02	0.10	0.20	0	0.930	0.132	Yes	0.722	0.000	No	0.27206	0.190998	Yes	-2	0.4879	Not significant, decreasing
POC #4	Combined Radium-226 and Radium-228	pCi/L	recent dataset	18	0%	5.46	1.13	3.87	5.50	7.58	0	0.94342	0.382	Yes	0.951	0.506	Yes	0.148	0.203	Yes	23	0.205	Not significant, increasing
POC #4	Selenium	ug/L	recent dataset	14	36%	6.42	1.50	4.74	6.29	10.10	0	0.77505	0.002	No	0.862	0.032	No	0.193	0.229	Yes	47	0.005	Significant, increasing
POC #4	Thallium	ug/L	recent dataset	13	100%	Too few detected data																	

Notes:

- N = size of dataset
- % ND = percentage of non-detect results
- mg/L = milligrams per liter
- ug/L = micrograms per liter
- SD = standard deviation
- SW = test statistic for the Shapiro-Wilk test for normality
- p = p-value for statistical test
- D = test statistic for the Kolmogorov-Smirnov test for a gamma distribution
- crit. Value = the critical value compared against the test statistic for the Kolmogorov-Smirnov Test
- S = test statistic for the Mann-Kendall test for a significant trend
- Stastical trend falsely identified due to changes in laboratory detection limit
- ¹Shapiro-wilk test for log-normality could not be tested for datasets with only one distinct value or negative values
- ²Some trends may be due to laboratory detection limit changes and not changes in measured values
- ³Combined Radium includes censored datasets containing negative measurements
- recent datasets include data from 2017-2023

Table 6. Calculated Alert Levels and Aquifer Quality Limits for MW-01

Statistical Analysis of All Constituents with an Established Numeric AWQS and Uranium in POC #1, POC #2, POC #3, and POC #4 at the Pinyon Plain Mine

Well	Constituent	Units	Dataset Description	N	% ND	Distribution	M	S	Tolerance Factor from ProUCL	AWQS	80% AWQS or U Standard	*M + KS	*M + 2S	95UTL	AQL	Justification for AQL
									K		AL Candidates					
POC #1	Antimony	mg/L	full dataset	12	17%	Log Normal	0.0053	0.00296	2.736	0.006	0.005	0.013	0.011	0.021	0.013	AL > AWQS
POC #1	Arsenic	mg/L	full dataset	12	0%	Log Normal	0.0708	0.05	2.736	0.05	0.04	0.218	0.178	0.38	0.218	AL > AWQS
POC #1	Barium	mg/L	full dataset	12	0%	Normal	0.0272	0.003	2.736	2	1.6	0.036	0.034	0.036	2	AL < AWQS
POC #1	Beryllium	mg/L	full dataset	12	100%	Too few detected data				0.004	0.0032	--	--	--	0.0040	AL < AWQS
POC #1	Cadmium	mg/L	full dataset	12	100%	Too few detected data				0.005	0.0040	--	--	--	0.005	AL < AWQS
POC #1	Chromium	mg/L	full dataset	12	92%	Too few detected data				0.1	0.08	--	--	--	0.10	AL < AWQS
POC #1	Field pH	s.u.	full dataset	12	0%	Nonparametric	7.49	0.69	2.736	NA	NA	9.38	8.87	9.56	6.5-8.5	EPA guidance [†]
POC #1	Field pH	s.u.	full dataset; extreme outlier removed	11	0%	Normal	7.30	0.24	2.815	NA	NA	7.97	7.78	7.97	6.5-8.5	EPA guidance [†]
POC #1	Fluoride	mg/L	full dataset	12	17%	Normal	0.197	0.07	2.736	4	3.2	0.376	0.328	0.38	4	AL < AWQS
POC #1	Gross Alpha minus Rn and U	pCi/L	full dataset	11	0%	Normal	14.692	15.59	2.815	15	12	58.58	45.873	58.58	58.58	AL > AWQS
POC #1	Lead	mg/L	full dataset	12	67%	Too few detected data				0.05	0.04	--	--	--	0.05	AL < AWQS
POC #1	Mercury	mg/L	full dataset	12	100%	Too few detected data				0.002	0.0016	--	--	--	0.002	AL < AWQS
POC #1	Nickel	mg/L	full dataset	12	0%	Lognormal	0.109	0.07	2.736	0.1	0.08	0.30	0.248	0.41	0.30	AL > AWQS
POC #1	Nitrate + Nitrite as N	mg/L	full dataset	12	75%	Too few detected data				10	8.0	--	--	--	10.00	AL < AWQS
POC #1	Combined Radium-226 and Radium-228	pCi/L	full dataset	12	0%	Normal	3.92	1.05	2.736	5	4.0	6.78	6.01	6.78	6.78	AL > AWQS
POC #1	Selenium	mg/L	full dataset	12	75%	Too few detected data				0.05	0.04	--	--	--	0.05	AL < AWQS
POC #1	Thallium	mg/L	full dataset	12	0%	Nonparametric	0.0014	0.0011	2.736	0.002	0.0016	0.004	0.004	0.00433	0.00433	AL > AWQS
POC #1	Uranium	mg/L	full dataset	12	0%	Lognormal	0.015	0.011	2.736		0.024	0.044	0.036	0.059	0.044	AL > 0.03 U Standard

Notes:

All units are milligrams per liter (mg/L)

N = size of dataset

% ND = percentage of non-detect results

M = mean

S = standard deviation

K = tolerance factor obtained from ProUCL for 95% confidence level

AWQS = Aquifer Water Quality Standard

AL = Alert Level

*valid for parametric datasets

95UTL = the upper tolerance limit of the 95th percentile at the 95% confidence level for the dataset distribution type. Obtained from ProUCL.

Most appropriate AL calculation based on APP guidelines and distribution type

The 95UTL value only considered an AL candidate for nonparametric datasets

AQL = Aquifer Quality Limit

† = EPA National Secondary Drinking Water Regulations

Table 7. Calculated Alert Levels and Aquifer Quality Limits for POC #2

Statistical Analysis of All Constituents with an Established Numeric AWQS and Uranium in POC #1, POC #2, POC #3, and POC #4 at the Pinyon Plain Mine

Well	Constituent	Units	Dataset Description	N	% ND	Distribution	M	S	Tolerance Factor from ProUCL	AWQS	80% AWQS or U Standard	*M + KS	*M + 2S	95UTL	AQL	Justification for AQL
									K		AL Candidates					
POC #2	Antimony	mg/L	full dataset	12	67%	Too few detected data				0.006	0.0048				0.006	AL < AWQS
POC #2	Arsenic	mg/L	full dataset	12	25%	Nonparametric	0.00617	0.006949	2.736	0.05	0.04	0.025	0.020	0.0275	0.05	AL < AWQS
POC #2	Arsenic	mg/L	full dataset; extreme outlier removed	11	27%	Normal	0.00423	0.001866	2.815	0.05	0.04	0.009	0.008	0.0095	0.05	AL < AWQS
POC #2	Barium	mg/L	full dataset	12	0%	Nonparametric	0.0467	0.0127	2.736	2	1.6	0.082	0.072	0.0540	2	AL < AWQS
POC #2	Barium	mg/L	full dataset; extreme outlier removed	11	0%	Normal	0.0503	0.0026	2.815	2	1.6	0.058	0.056	0.0576	2	AL < AWQS
POC #2	Beryllium	mg/L	full dataset	12	100%	Too few detected data				0.004	0.0032	--	--	--	0.004	AL < AWQS
POC #2	Cadmium	mg/L	full dataset	12	75%	Too few detected data				0.005	0.004	--	--	--	0.005	AL < AWQS
POC #2	Chromium	mg/L	full dataset	12	83%	Too few detected data				0.1	0.08	--	--	--	0.1	AL < AWQS
POC #2	Field pH	s.u.	full dataset	12	0%	Nonparametric	7.63	0.93	2.736	NA	NA	10.16	9.48	10.43	6.5-8.5	EPA guidance †
POC #2	Field pH	s.u.	full dataset; extreme outlier removed	11	0%	Normal	7.37	0.30	2.815	NA	NA	8.211	7.97	8.21	6.5-8.5	EPA guidance †
POC #2	Fluoride	mg/L	full dataset	12	33%	Log Normal	0.172	0.11	2.736	4	3.2	0.485	0.401	0.602	4	AL < AWQS
POC #2	Fluoride	mg/L	full dataset; extreme outlier removed	11	36%	Normal	0.143	0.06	2.815	4	3.2	0.300	0.255	0.300	4	AL < AWQS
POC #2	Gross Alpha minus Rn and U	pCi/L	full dataset	11	0%	Nonparametric	-2.7	35.8	2.8	15	12	98.1	68.9	17.3	98.1	AL > AWQS
POC #2	Gross Alpha minus Rn and U	pCi/L	full dataset; extreme outlier removed	10	0%	Normal	8.01	4.30	2.911	15	12	20.5	16.613	20.5	20.5	AL > AWQS
POC #2	Lead	mg/L	full dataset	12	83%	Too few detected data				0.05	0.04	--	--	--	0.05	AL < AWQS
POC #2	Mercury	mg/L	full dataset	12	100%	Too few detected data				0.002	0.0016	--	--	--	0.002	AL < AWQS
POC #2	Nickel	mg/L	full dataset	12	0%	Nonparametric	0.034	0.054	2.736	0.1	0.08	0.183	0.143	0.207	0.207	AL > AWQS
POC #2	Nickel	mg/L	full dataset; extreme outlier removed	11	0%	Normal	0.019	0.003	2.815	0.1	0.08	0.028	0.025	0.028	0.1	AL < AWQS
POC #2	Nitrate + Nitrite as N	mg/L	full dataset	13	85%	Too few detected data				10	8	--	--	--	10	AL < AWQS
POC #2	Combined Radium-226 and Radium-228	pCi/L	full dataset	12	0%	Lognormal	3.17	1.26	2.736	5	4	6.61	5.69	8.20	6.61	AL > AWQS
POC #2	Combined Radium-226 and Radium-228	pCi/L	full dataset; extreme outlier removed	11	0%	Normal	2.91	0.90	2.815	5	4	5.43	4.70	5.38	5.43	AL > AWQS
POC #2	Selenium	mg/L	full dataset	12	100%	Too few detected data				0.05	0.04	--	--	--	0.05	AL < AWQS
POC #2	Thallium	mg/L	full dataset	9	0%	Normal	0.0008	0.000362	3.031	0.002	0.0016	0.0019	0.00153	0.0019	0.0019	AL > AWQS
POC #2	Uranium	mg/L	full dataset	12	0%	Normal	0.0059	0.0015	2.736	--	0.024	0.010	0.009	0.0100	0.03	AL < 0.03 U Standard

Notes:

All units are milligrams per liter (mg/L)

N = size of dataset

% ND = percentage of non-detect results

M = mean

S = standard deviation

K = tolerance factor obtained from ProUCL for 95% confidence level

AWQS = Aquifer Water Quality Standard

AL = Alert Level

*valid for parametric datasets

95UTL = the upper tolerance limit of the 95th percentile at the 95% confidence level obtained from ProUCL

Most appropriate AL calculation based on APP guidelines and distribution type

The 95UTL value only considered an AL candidate for nonparametric datasets

AQL = Aquifer Quality Limit

† = EPA National Secondary Drinking Water Regulations

Table 8. Calculated Alert Levels and Aquifer Quality Limits for POC #3

Statistical Analysis of All Constituents with an Established Numeric AWQS and Uranium in POC #1, POC #2, POC #3, and POC #4 at the Pinyon Plain Mine

Well	Constituent	Units	Dataset Description	N	% ND	Distribution	M	S	Tolerance Factor from ProUCL	AWQS	80% AWQS or U Standard	*M + KS	*M + 2S	95UTL	AQL	Justification for AQL
									K		AL Candidates					
POC #3	Antimony	mg/L	full dataset	12	92%	Too few detected data				0.006	0.0048	--	--	--	0.0060	AL > AWQS
POC #3	Arsenic	mg/L	full dataset	12	8%	Normal	0.0178	0.009	2.736	0.05	0.04	0.043	0.036	0.043	0.05	AL < AWQS
POC #3	Barium	mg/L	full dataset	12	0%	Log Normal	0.0122	0.012	2.736	2	1.6	0.045	0.036	0.069	2	AL < AWQS
POC #3	Barium	mg/L	full dataset; extreme outlier removed	11	0%	Normal	0.009	0.003	2.815	2	1.6	0.019	0.016	0.019	2	AL < AWQS
POC #3	Beryllium	mg/L	full dataset	12	100%	Too few detected data				0.004	0.0032	--	--	--	0.004	AL < AWQS
POC #3	Cadmium	mg/L	full dataset	12	92%	Too few detected data				0.005	0.004	--	--	--	0.005	AL < AWQS
POC #3	Chromium	mg/L	full dataset	12	100%	Too few detected data				0.1	0.08	--	--	--	0.1	AL < AWQS
POC #3	Field pH	s.u.	full dataset	13	0%	Nonparametric	7.59	1.06	2.736	NA	NA	10.50	9.72	10.43	6.5-8.5	EPA guidance [†]
POC #3	Field pH	s.u.	full dataset; extreme outlier removed	12	0%	Normal	7.36	0.67	2.815	NA	NA	9.23	8.69	8.21	6.5-8.5	EPA guidance [†]
POC #3	Fluoride	mg/L	full dataset	12	58%	Log Normal	0.23	0.23	2.736	4	3.2	0.850	0.683	1.98	4	AL < AWQS
POC #3	Gross Alpha minus Rn and U	pCi/L	full dataset	11	0%	Normal	5.388	6.57	2.815	15	12	23.9	18.5	23.9	23.9	AL > AWQS
POC #3	Lead	mg/L	full dataset	12	92%	Too few detected data				0.05	0.04	--	--	--	0.05	AL < AWQS
POC #3	Mercury	mg/L	full dataset	12	100%	Too few detected data				0.002	0.0016	--	--	--	0.002	AL < AWQS
POC #3	Nickel	mg/L	full dataset	12	0%	Normal	0.20	0.08	2.736	0.1	0.08	0.43	0.37	0.43	0.43	AL > AWQS
POC #3	Nitrate + Nitrite as N	mg/L	full dataset	12	100%	Too few detected data				10	8	--	--	--	10	AL < AWQS
POC #3	Combined Radium-226 and Radium-228	pCi/L	full dataset	12	0	Normal	2.18	0.64	2.736	5.0	4	3.92	3.46	3.92	5	AL < AWQS
POC #3	Selenium	mg/L	full dataset	12	92%	Too few detected data				0.05	0.04	--	--	--	0.05	AL < AWQS
POC #3	Thallium	mg/L	full dataset	9	11%	Normal	0.0005	0.0003	3.031	0.002	0.0016	0.001	0.001	0.001	0.001	AL > AWQS
POC #3	Uranium	mg/L	full dataset	12	0%	Nonparametric	0.006	0.003	2.736	--	0.024	0.014	0.012	0.0136	0.0137	AL < 0.03 U Standard

Notes:

All units are milligrams per liter (mg/L)

N = size of dataset

% ND = percentage of non-detect results

M = mean

S = standard deviation

K = tolerance factor obtained from ProUCL for 95% confidence level

AWQS = Aquifer Water Quality Standard

AL = Alert Level

*valid for parametric datasets

95UTL = the upper tolerance limit of the 95th percentile at the 95% confidence level obtained from ProUCL

Most appropriate AL calculation based on APP guidelines and distribution type

The 95UTL value only considered an AL candidate for nonparametric datasets

AQL = Aquifer Quality Limit

† = EPA National Secondary Drinking Water Regulations

Table 9. Calculated Alert Levels and Aquifer Quality Limits for POC #4

Statistical Analysis of All Constituents with an Established Numeric AWQS and Uranium in POC #1, POC #2, POC #3, and POC #4 at the Pinyon Plain Mine

Constituent	Units	Dataset Description	N	% ND	Distribution	M	S	Tolerance Factor from ProUCL	AWQS	80% AWQS or U Standard	*M + KS	*M + 2S	95UTL	AQL	Justification for AQL
								K		AL Candidates					
Antimony	mg/L	full dataset	16	100%	Too few detected data				0.006	0.005	--	--	--	0.006	AL < AWQS
Barium	mg/L	full dataset	28	18%	Nonparametric	0.092	0.053	2.246	2	1.60	0.21	0.20	0.3	2	AL < AWQS
Barium	mg/L	full dataset; extreme outlier removed	27	19%	Nonparametric	0.084	0.035	2.26	2	1.60	0.16	0.15	0.20	2	AL < AWQS
Barium	mg/L	full dataset; two extreme outliers removed	26	19%	Nonparametric	0.079	0.026	2.275	2	1.60	0.14	0.13	0.15	2	AL < AWQS
Beryllium	mg/L	full dataset	16	100%	Too few detected data				0.004	0.003	--	--	--	0.004	AL < AWQS
Cadmium	mg/L	full dataset	29	100%	Too few detected data				0.005	0.004	--	--	--	0.005	AL < AWQS
Chromium	mg/L	full dataset	29	97%	Too few detected data				0.1	0.080	--	--	--	0.1	AL < AWQS
Field pH	s.u.	full dataset	19	0%	Nonparametric	7.451	0.661	2.423	NA	NA	9.053	8.77	9.40	6.5-8.5	EPA guidance [†]
Field pH	s.u.	full dataset; two extreme outliers removed	17	0%	Normal	7.435	0.279	2.486	NA	NA	8.128	7.99	8.13	6.5-8.5	EPA guidance [†]
Fluoride	mg/L	full dataset	61	2%	Nonparametric	0.32	0.09	2.013	4	3.2	0.503	0.50	0.50	4	AL < AWQS
Fluoride	mg/L	full dataset; extreme outlier removed	60	2%	Nonparametric	0.32	0.08	2.017	4	3.2	0.473	0.47	0.50	4	AL < AWQS
Gross Alpha minus Rn and U	pCi/L	full dataset	57	0%	Nonparametric	5.86	7.36	2.028	15	12	20.78	20.57	20	20	AL > AWQS
Gross Alpha minus Rn and U	pCi/L	full dataset; extreme outlier removed	56	0%	Nonparametric	5.28	6.00	2.032	15	12	17.48	17.29	17.50	17.5	AL > AWQS
Gross Alpha minus Rn and U	pCi/L	full dataset; two extreme outliers removed	55	0%	Normal	4.82	4.92	2.036	15	12	14.84	14.66	17.19	15	AL < AWQS
Lead	mg/L	full dataset	33	67%	Too few detected data				0.05	0.040	--	--	--	0.05	AL < AWQS
Mercury	mg/L	full dataset	28	79%	Too few detected data				0.002	0.0016	--	--	--	0.002	AL < AWQS
Nickel	mg/L	full dataset	17	24%	Lognormal	0.015	0.008	2.486	0.1	0.080	0.035	0.03	0.052	0.1	AL < AWQS
Nitrate + Nitrite as N	mg/L	full dataset	26	8%	Normal	0.106	0.046	2.275	10	8	0.21	0.20	0.21	10	AL < AWQS
Combined Radium-226 and Radium-228	pCi/L	full dataset	20	0%	Normal	5.25	1.29	2.396	5	4	8.33	7.82	8.33	8.33	AL > AWQS
Selenium	mg/L	full dataset	29	34%	Normal	0.005	0.003	2.275	0.05	0.04	0.010	0.010	0.011	0.05	AL < AWQS
Thallium	mg/L	full dataset	16	100%	Too few detected data				0.002	0.0016	--	--	--	0.002	AL < AWQS

Notes:

All units are milligrams per liter (mg/L)

N = size of dataset

% ND = percentage of non-detect results

M = mean

S = standard deviation

K = tolerance factor obtained from ProUCL for 95% confidence level

AWQS = Aquifer Water Quality Standard

AL = Alert Level

*valid for parametric datasets

95UTL = the upper tolerance limit of the 95th percentile at the 95% confidence level obtained from ProUCL

Most appropriate AL calculation based on APP guidelines and distribution type

The 95UTL value only considered an AL candidate for nonparametric datasets

AQL = Aquifer Quality Limit

† = EPA National Secondary Drinking Water Regulations

Table 10. Calculated Alert Levels and Aquifer Quality Limits for POC #4 Recent Data

Statistical Analysis of All Constituents with an Established Numeric AWQS and Uranium in POC #1, POC #2, POC #3, and POC #4 at the Pinyon Plain Mine

Constituent	Units	Dataset Description	N	% ND	Distribution	M	S	Tolerance Factor from ProUCL	AWQS	80% AWQS or U Standard	*M + KS	*M + 2S	95UTL	AQL	Justification for AQL
								K		AL Candidates					
Antimony	mg/L	recent dataset	13	100%	Too few detected data				0.006	<u>0.005</u>	--	--	--	0.006	AL < AWQS
Barium	mg/L	recent dataset	13	0%	Normal	0.084	0.003	2.671	2	<u>1.60</u>	0.09	0.09	0.093	2	AL < AWQS
Beryllium	mg/L	recent dataset	13	100%	Too few detected data				0.004	<u>0.003</u>	--	--	--	0.004	AL < AWQS
Cadmium	mg/L	recent dataset	14	100%	Too few detected data				0.005	<u>0.004</u>	--	--	--	0.005	AL < AWQS
Chromium	mg/L	recent dataset	14	100%	Too few detected data				0.1	<u>0.080</u>	--	--	--	0.1	AL < AWQS
Field pH	s.u.	recent dataset	19	0%	Nonparametric	7.451	0.661	2.423	NA	NA	9.053	8.77	9.40	6.5-8.5	EPA guidance [†]
Field pH	s.u.	recent dataset; extreme outlier removed	17	0%	Normal	7.43	0.28	2.486	NA	NA	8.128	7.99	8.13	6.5-8.5	EPA guidance [†]
Fluoride	mg/L	recent dataset	20	0%	Nonparametric	0.32	0.10	2.396	4	3.2	0.553	0.51	0.68	4	AL < AWQS
Fluoride	mg/L	recent dataset; extreme outlier removed	19	0%	Normal	0.30	0.05	2.423	4	<u>3.2</u>	0.420	0.40	0.42	4	AL < AWQS
Gross Alpha minus Rn and U	pCi/L	recent dataset	17	0%	Normal	6.07	3.75	2.486	15	12	<u>15.38</u>	13.56	15.38	15	AL > AWQS
Lead	mg/L	recent dataset	18	44%	Lognormal	0.00076	0.00073	2.453	0.05	<u>0.040</u>	0.0026	0.0022	0.009	0.05	AL < AWQS
Mercury	mg/L	recent dataset	13	100%	Too few detected data				0.002	<u>0.0016</u>	--	--	--	0.002	AL < AWQS
Nickel	mg/L	recent dataset	14	7%	Lognormal	0.014	0.006	2.614	0.1	<u>0.080</u>	0.031	0.03	0.044	0.1	AL < AWQS
Nitrate + Nitrite as N	mg/L	recent dataset	21	10%	Normal	0.095	0.041	2.371	10	<u>8</u>	0.19	0.18	0.195	10	AL < AWQS
Combined Radium-226 and Radium-228	pCi/L	recent dataset	18	0%	Normal	5.46	1.13	2.453	5	4	<u>8.22</u>	7.71	8.22	8.22	AL > AWQS
Selenium	mg/L	recent dataset	14	36%	Lognormal	0.005	0.002	2.614	0.05	<u>0.04</u>	0.010	0.009	0.010	0.05	AL < AWQS
Thallium	mg/L	recent dataset	13	100%	Too few detected data				0.002	<u>0.0016</u>	--	--	--	0.002	AL < AWQS

Notes:

All units are milligrams per liter (mg/L)

N = size of dataset

% ND = percentage of non-detect results

M = mean

S = standard deviation

K = tolerance factor obtained from ProUCL for 95% confidence level

AWQS = Aquifer Water Quality Standard

AL = Alert Level

*valid for parametric datasets

95UTL = the upper tolerance limit of the 95th percentile at the 95% confidence level obtained from ProUCL

Most appropriate AL calculation based on APP guidelines and distribution type

The 95UTL value only considered an AL candidate for nonparametric datasets

AQL = Aquifer Quality Limit

† = EPA National Secondary Drinking Water Regulations

recent datasets include data from 2017-2023

Appendix A

APPENDIX A
Groundwater Monitoring Results for POC #1, POC #2, POC #3, and POC #4
 EFRI - Pinyon Plain Mine

Well	Date	Parameter	Units	Result	PQL	MDL	Extreme Outlier?
POC #1	3/16/2021	Antimony	ug/L	7.18	2	0.4	no
POC #1	5/10/2021	Antimony	ug/L	4.4	2	0.4	no
POC #1	9/1/2021	Antimony	ug/L	4.5	2	0.4	no
POC #1	12/7/2021	Antimony	ug/L	10.9	2	0.4	no
POC #1	3/3/2022	Antimony	ug/L	6.33	2	0.4	no
POC #1	5/25/2022	Antimony	ug/L	3.43	2	0.4	no
POC #1	9/18/2022	Antimony	ug/L	<4.3	10	4.3	no
POC #1	11/12/2022	Antimony	ug/L	10.7	10	4.3	no
POC #1	2/11/2023	Antimony	ug/L	<4.3	10	4.3	no
POC #1	5/8/2023	Antimony	ug/L	3.73	4	1.03	no
POC #1	7/31/2023	Antimony	ug/L	3.88	4	1.03	no
POC #1	12/11/2023	Antimony	ug/L	3.79	4	1.03	no
POC #1	3/16/2021	Arsenic	ug/L	126	1	0.2	no
POC #1	5/10/2021	Arsenic	ug/L	76.5	1	0.2	no
POC #1	9/1/2021	Arsenic	ug/L	70	1	0.2	no
POC #1	12/7/2021	Arsenic	ug/L	158	1	0.2	no
POC #1	3/3/2022	Arsenic	ug/L	178	1	0.2	no
POC #1	5/25/2022	Arsenic	ug/L	42.2	1	0.2	no
POC #1	9/18/2022	Arsenic	ug/L	43.5	10	4.4	no
POC #1	11/12/2022	Arsenic	ug/L	42.7	10	4.4	no
POC #1	2/11/2023	Arsenic	ug/L	31	10	4.4	no
POC #1	5/8/2023	Arsenic	ug/L	27.7	10	4.4	no
POC #1	7/31/2023	Arsenic	ug/L	30.2	10	4.4	no
POC #1	12/11/2023	Arsenic	ug/L	24.3	10	4.4	no
POC #1	3/16/2021	Barium	ug/L	21.5	35	7	no
POC #1	5/10/2021	Barium	ug/L	23.3	35	7	no
POC #1	9/1/2021	Barium	ug/L	29.5	35	7	no
POC #1	12/7/2021	Barium	ug/L	25.3	35	7	no
POC #1	3/3/2022	Barium	ug/L	27.5	35	7	no
POC #1	5/25/2022	Barium	ug/L	26.1	35	9	no
POC #1	9/18/2022	Barium	ug/L	25.2	5	0.736	no
POC #1	11/12/2022	Barium	ug/L	27.9	5	0.736	no
POC #1	2/11/2023	Barium	ug/L	27	5	0.736	no
POC #1	5/8/2023	Barium	ug/L	29.3	5	0.736	no
POC #1	7/31/2023	Barium	ug/L	32.9	5	0.736	no
POC #1	12/11/2023	Barium	ug/L	31.2	5	0.736	no
POC #1	3/16/2021	Beryllium	ug/L	<0.08	0.25	0.08	NA
POC #1	5/10/2021	Beryllium	ug/L	<0.08	0.25	0.08	NA
POC #1	9/1/2021	Beryllium	ug/L	<0.08	0.25	0.08	NA

APPENDIX A
Groundwater Monitoring Results for POC #1, POC #2, POC #3, and POC #4
 EFRI - Pinyon Plain Mine

Well	Date	Parameter	Units	Result	PQL	MDL	Extreme Outlier?
POC #1	12/7/2021	Beryllium	ug/L	<0.08	0.25	0.08	NA
POC #1	3/3/2022	Beryllium	ug/L	<0.08	0.25	0.08	NA
POC #1	5/25/2022	Beryllium	ug/L	<0.08	0.25	0.08	NA
POC #1	9/18/2022	Beryllium	ug/L	<0.33	2	0.33	NA
POC #1	11/12/2022	Beryllium	ug/L	<0.33	2	0.33	NA
POC #1	2/11/2023	Beryllium	ug/L	<0.33	2	0.33	NA
POC #1	5/8/2023	Beryllium	ug/L	<0.33	2	0.33	NA
POC #1	7/31/2023	Beryllium	ug/L	<0.33	2	0.33	NA
POC #1	12/11/2023	Beryllium	ug/L	<0.33	2	0.33	NA
POC #1	3/16/2021	Cadmium	ug/L	<0.05	0.25	0.05	NA
POC #1	5/10/2021	Cadmium	ug/L	<0.05	0.25	0.05	NA
POC #1	9/1/2021	Cadmium	ug/L	<0.05	0.25	0.05	NA
POC #1	12/7/2021	Cadmium	ug/L	<0.05	0.25	0.05	NA
POC #1	3/3/2022	Cadmium	ug/L	<0.05	0.25	0.05	NA
POC #1	5/25/2022	Cadmium	ug/L	<0.05	0.25	0.05	NA
POC #1	9/18/2022	Cadmium	ug/L	<0.479	2	0.479	NA
POC #1	11/12/2022	Cadmium	ug/L	<0.479	2	0.479	NA
POC #1	2/11/2023	Cadmium	ug/L	<0.479	2	0.479	NA
POC #1	5/8/2023	Cadmium	ug/L	<0.479	2	0.479	NA
POC #1	7/31/2023	Cadmium	ug/L	<0.479	2	0.479	NA
POC #1	12/11/2023	Cadmium	ug/L	<0.479	2	0.479	NA
POC #1	3/16/2021	Chromium	ug/L	<10	50	10	NA
POC #1	5/10/2021	Chromium	ug/L	<20	50	20	NA
POC #1	9/1/2021	Chromium	ug/L	<20	50	20	NA
POC #1	12/7/2021	Chromium	ug/L	<20	50	20	NA
POC #1	3/3/2022	Chromium	ug/L	<20	50	20	NA
POC #1	5/25/2022	Chromium	ug/L	<20	50	20	NA
POC #1	9/18/2022	Chromium	ug/L	<1.4	10	1.4	NA
POC #1	11/12/2022	Chromium	ug/L	1.55	10	1.4	NA
POC #1	2/11/2023	Chromium	ug/L	<1.4	10	1.4	NA
POC #1	5/8/2023	Chromium	ug/L	<1.4	10	1.4	NA
POC #1	7/31/2023	Chromium	ug/L	<1.4	10	1.4	NA
POC #1	12/11/2023	Chromium	ug/L	<1.4	10	1.4	NA
POC #1	3/16/2021	Field pH	s.u.	7.08			no
POC #1	5/10/2021	Field pH	s.u.	7.27			no
POC #1	9/1/2021	Field pH	s.u.	7.54			no
POC #1	12/7/2021	Field pH	s.u.	9.558			yes
POC #1	3/3/2022	Field pH	s.u.	7.04			no
POC #1	5/25/2022	Field pH	s.u.	7.15			no

APPENDIX A
Groundwater Monitoring Results for POC #1, POC #2, POC #3, and POC #4
 EFRI - Pinyon Plain Mine

Well	Date	Parameter	Units	Result	PQL	MDL	Extreme Outlier?
POC #1	9/18/2022	Field pH	s.u.	7.7			no
POC #1	11/15/2022	Field pH	s.u.	7.44			no
POC #1	2/11/2023	Field pH	s.u.	7.55			no
POC #1	5/8/2023	Field pH	s.u.	7.12			no
POC #1	7/31/2023	Field pH	s.u.	7			no
POC #1	12/11/2023	Field pH	s.u.	7.4			no
POC #1	3/16/2021	Fluoride	mg/L	<0.25	1.25	0.25	no
POC #1	5/10/2021	Fluoride	mg/L	<0.25	1.25	0.25	no
POC #1	9/1/2021	Fluoride	mg/L	0.28	0.35	0.15	no
POC #1	12/7/2021	Fluoride	mg/L	0.15	0.35	0.15	no
POC #1	3/3/2022	Fluoride	mg/L	0.17	0.35	0.15	no
POC #1	5/25/2022	Fluoride	mg/L	0.23	0.35	0.15	no
POC #1	9/18/2022	Fluoride	mg/L	0.148	0.15	0.064	no
POC #1	11/12/2022	Fluoride	mg/L	0.274	0.15	0.064	no
POC #1	2/11/2023	Fluoride	mg/L	0.146	0.15	0.064	no
POC #1	5/8/2023	Fluoride	mg/L	0.251	0.5	0.198	no
POC #1	7/31/2023	Fluoride	mg/L	0.132	0.15	0.064	no
POC #1	12/11/2023	Fluoride	mg/L	0.0858	0.15	0.064	no
POC #1	3/16/2021	Gross Alpha minus Rn and U	pCi/L	-7.7			no
POC #1	5/10/2021	Gross Alpha minus Rn and U	pCi/L	3.8			no
POC #1	9/1/2021	Gross Alpha minus Rn and U	pCi/L	-5.1			no
POC #1	12/7/2021	Gross Alpha minus Rn and U	pCi/L	27.1			no
POC #1	5/25/2022	Gross Alpha minus Rn and U	pCi/L	20.7			no
POC #1	9/18/2022	Gross Alpha minus Rn and U	pCi/L	12.8			no
POC #1	11/12/2022	Gross Alpha minus Rn and U	pCi/L	4.31			no
POC #1	2/11/2023	Gross Alpha minus Rn and U	pCi/L	18.3			no
POC #1	5/8/2023	Gross Alpha minus Rn and U	pCi/L	20.3			no
POC #1	7/31/2023	Gross Alpha minus Rn and U	pCi/L	47			no
POC #1	12/11/2023	Gross Alpha minus Rn and U	pCi/L	20.1			no
POC #1	3/16/2021	Lead	ug/L	<0.1	0.5	0.1	NA
POC #1	5/10/2021	Lead	ug/L	<0.1	0.5	0.1	NA
POC #1	9/1/2021	Lead	ug/L	1.42	0.5	0.1	NA
POC #1	12/7/2021	Lead	ug/L	0.25	0.5	0.1	NA
POC #1	3/3/2022	Lead	ug/L	4.37	0.5	0.1	NA
POC #1	5/25/2022	Lead	ug/L	<0.1	0.5	0.1	NA
POC #1	9/18/2022	Lead	ug/L	<2.99	6	2.99	NA
POC #1	11/12/2022	Lead	ug/L	<2.99	6	2.99	NA
POC #1	2/11/2023	Lead	ug/L	4.56	6	2.99	NA
POC #1	5/8/2023	Lead	ug/L	<2.99	6	2.99	NA

APPENDIX A
Groundwater Monitoring Results for POC #1, POC #2, POC #3, and POC #4
EFRI - Pinyon Plain Mine

Well	Date	Parameter	Units	Result	PQL	MDL	Extreme Outlier?
POC #1	7/31/2023	Lead	ug/L	<2.99	6	2.99	NA
POC #1	12/11/2023	Lead	ug/L	<2.99	6	2.99	NA
POC #1	3/16/2021	Mercury	ug/L	<0.2	1	0.2	NA
POC #1	5/10/2021	Mercury	ug/L	<0.2	1	0.2	NA
POC #1	9/1/2021	Mercury	ug/L	<0.2	1	0.2	NA
POC #1	12/7/2021	Mercury	ug/L	<0.2	1	0.2	NA
POC #1	3/3/2022	Mercury	ug/L	<0.2	1	0.2	NA
POC #1	5/25/2022	Mercury	ug/L	<0.2	1	0.2	NA
POC #1	9/18/2022	Mercury	ug/L	<0.1	0.2	0.1	NA
POC #1	11/12/2022	Mercury	ug/L	<0.1	0.2	0.1	NA
POC #1	2/11/2023	Mercury	ug/L	<0.1	0.2	0.1	NA
POC #1	5/8/2023	Mercury	ug/L	<0.1	0.2	0.1	NA
POC #1	7/31/2023	Mercury	ug/L	<0.1	0.2	0.1	NA
POC #1	12/11/2023	Mercury	ug/L	<0.1	0.2	0.1	NA
POC #1	3/16/2021	Nickel	ug/L	276	40	8	no
POC #1	5/10/2021	Nickel	ug/L	158	40	8	no
POC #1	9/1/2021	Nickel	ug/L	109	40	8	no
POC #1	12/7/2021	Nickel	ug/L	206	40	8	no
POC #1	3/3/2022	Nickel	ug/L	83	40	8	no
POC #1	5/25/2022	Nickel	ug/L	70.2	40	8	no
POC #1	9/18/2022	Nickel	ug/L	53.4	10	1.61	no
POC #1	11/12/2022	Nickel	ug/L	95.3	10	1.61	no
POC #1	2/11/2023	Nickel	ug/L	74.3	10	1.61	no
POC #1	5/8/2023	Nickel	ug/L	62.8	10	1.61	no
POC #1	7/31/2023	Nickel	ug/L	61.4	10	1.61	no
POC #1	12/11/2023	Nickel	ug/L	53.7	10	1.61	no
POC #1	3/16/2021	Nitrate + Nitrite as N	mg/L	0.02	0.1	0.02	NA
POC #1	5/10/2021	Nitrate + Nitrite as N	mg/L	0.02	0.1	0.02	NA
POC #1	9/1/2021	Nitrate + Nitrite as N	mg/L	<0.02	0.1	0.02	NA
POC #1	12/7/2021	Nitrate + Nitrite as N	mg/L	<0.02	0.1	0.02	NA
POC #1	3/3/2022	Nitrate + Nitrite as N	mg/L	<0.02	0.1	0.02	NA
POC #1	5/25/2022	Nitrate + Nitrite as N	mg/L	<0.02	0.1	0.02	NA
POC #1	9/18/2022	Nitrate + Nitrite as N	mg/L	<0.05	0.1	0.05	NA
POC #1	11/12/2022	Nitrate + Nitrite as N	mg/L	<0.05	0.1	0.05	NA
POC #1	2/11/2023	Nitrate + Nitrite as N	mg/L	0.0948	0.1	0.05	NA
POC #1	5/8/2023	Nitrate + Nitrite as N	mg/L	<0.05	0.1	0.05	NA
POC #1	7/31/2023	Nitrate + Nitrite as N	mg/L	<0.05	0.1	0.05	NA
POC #1	12/11/2023	Nitrate + Nitrite as N	mg/L	<0.05	0.1	0.05	NA
POC #1	3/16/2021	Radium-226+228	pCi/L	3.97			no

APPENDIX A
Groundwater Monitoring Results for POC #1, POC #2, POC #3, and POC #4
 EFRI - Pinyon Plain Mine

Well	Date	Parameter	Units	Result	PQL	MDL	Extreme Outlier?
POC #1	5/10/2021	Radium-226+228	pCi/L	1.98			no
POC #1	9/1/2021	Radium-226+228	pCi/L	4.1			no
POC #1	12/7/2021	Radium-226+228	pCi/L	4.68			no
POC #1	3/3/2022	Radium-226+228	pCi/L	3.21			no
POC #1	5/25/2022	Radium-226+228	pCi/L	2.849			no
POC #1	9/18/2022	Radium-226+228	pCi/L	2.8218			no
POC #1	11/12/2022	Radium-226+228	pCi/L	3.715			no
POC #1	2/11/2023	Radium-226+228	pCi/L	4.715			no
POC #1	5/8/2023	Radium-226+228	pCi/L	5.62			no
POC #1	7/31/2023	Radium-226+228	pCi/L	4.786			no
POC #1	12/11/2023	Radium-226+228	pCi/L	4.613			no
POC #1	3/16/2021	Selenium	ug/L	0.12	0.25	0.1	NA
POC #1	5/10/2021	Selenium	ug/L	<0.1	0.25	0.1	NA
POC #1	9/1/2021	Selenium	ug/L	0.12	0.25	0.1	NA
POC #1	12/7/2021	Selenium	ug/L	<0.1	0.25	0.1	NA
POC #1	3/3/2022	Selenium	ug/L	<0.1	0.25	0.1	NA
POC #1	5/25/2022	Selenium	ug/L	<0.1	0.25	0.1	NA
POC #1	9/18/2022	Selenium	ug/L	<7.35	10	7.35	NA
POC #1	11/12/2022	Selenium	ug/L	<7.35	10	7.35	NA
POC #1	2/11/2023	Selenium	ug/L	10.1	10	7.35	NA
POC #1	5/8/2023	Selenium	ug/L	<7.35	10	7.35	NA
POC #1	7/31/2023	Selenium	ug/L	<7.35	10	7.35	NA
POC #1	12/11/2023	Selenium	ug/L	<7.35	10	7.35	NA
POC #1	3/16/2021	Thallium	ug/L	1.85	0.5	0.1	no
POC #1	5/10/2021	Thallium	ug/L	1.73	0.5	0.1	no
POC #1	9/1/2021	Thallium	ug/L	1.23	0.5	0.1	no
POC #1	12/7/2021	Thallium	ug/L	2.15	0.5	0.1	no
POC #1	3/3/2022	Thallium	ug/L	1.39	0.5	0.1	no
POC #1	5/25/2022	Thallium	ug/L	1.19	0.5	0.1	no
POC #1	5/8/2023	Thallium	ug/L	0.977	2	0.121	no
POC #1	7/31/2023	Thallium	ug/L	1.02	2	0.121	no
POC #1	12/11/2023	Thallium	ug/L	0.893	2	0.121	no
POC #1	3/16/2021	Uranium	ug/L	43.7	0.5	0.1	no
POC #1	5/10/2021	Uranium	ug/L	25.9	0.5	0.1	no
POC #1	9/1/2021	Uranium	ug/L	13.8	0.5	0.1	no
POC #1	12/7/2021	Uranium	ug/L	19.8	0.5	0.1	no
POC #1	3/3/2022	Uranium	ug/L	14.7	0.5	0.1	no
POC #1	5/25/2022	Uranium	ug/L	10.8	0.5	0.1	no
POC #1	9/18/2022	Uranium	ug/L	10.3	1	0.0789	no

APPENDIX A
Groundwater Monitoring Results for POC #1, POC #2, POC #3, and POC #4
 EFRI - Pinyon Plain Mine

Well	Date	Parameter	Units	Result	PQL	MDL	Extreme Outlier?
POC #1	11/12/2022	Uranium	ug/L	11.4	1	0.0789	no
POC #1	2/11/2023	Uranium	ug/L	8.42	1	0.0789	no
POC #1	5/8/2023	Uranium	ug/L	7.22	1	0.0789	no
POC #1	7/31/2023	Uranium	ug/L	7.12	1	0.0789	no
POC #1	12/11/2023	Uranium	ug/L	7.64	1	0.0789	no
POC #2	3/16/2021	Antimony	ug/L	0.72	2	0.4	NA
POC #2	5/10/2021	Antimony	ug/L	0.54	2	0.4	NA
POC #2	9/1/2021	Antimony	ug/L	0.44	2	0.4	NA
POC #2	12/9/2021	Antimony	ug/L	<0.4	2	0.4	NA
POC #2	2/28/2022	Antimony	ug/L	<0.4	2	0.4	NA
POC #2	5/26/2022	Antimony	ug/L	<0.4	2	0.4	NA
POC #2	9/18/2022	Antimony	ug/L	<4.3	10	4.3	NA
POC #2	11/12/2022	Antimony	ug/L	4.91	10	4.3	NA
POC #2	2/13/2023	Antimony	ug/L	<4.3	10	4.3	NA
POC #2	5/7/2023	Antimony	ug/L	<4.3	4	1.03	NA
POC #2	8/3/2023	Antimony	ug/L	<4.3	4	1.03	NA
POC #2	12/10/2023	Antimony	ug/L	<4.3	4	1.03	NA
POC #2	3/16/2021	Arsenic	ug/L	5.27	1	0.2	no
POC #2	5/10/2021	Arsenic	ug/L	6.39	1	0.2	no
POC #2	9/1/2021	Arsenic	ug/L	6.3	1	0.2	no
POC #2	12/9/2021	Arsenic	ug/L	2.54	1	0.2	no
POC #2	2/28/2022	Arsenic	ug/L	3.67	1	0.2	no
POC #2	5/26/2022	Arsenic	ug/L	3.28	1	0.2	no
POC #2	9/18/2022	Arsenic	ug/L	5.84	10	4.4	no
POC #2	11/12/2022	Arsenic	ug/L	6.63	10	4.4	no
POC #2	2/13/2023	Arsenic	ug/L	<4.4	10	4.4	no
POC #2	5/7/2023	Arsenic	ug/L	27.5	10	4.4	yes
POC #2	8/3/2023	Arsenic	ug/L	<4.4	10	4.4	no
POC #2	12/10/2023	Arsenic	ug/L	<4.4	10	4.4	no
POC #2	3/16/2021	Barium	ug/L	53.2	35	7	no
POC #2	5/10/2021	Barium	ug/L	53.1	35	7	no
POC #2	9/1/2021	Barium	ug/L	54	35	7	no
POC #2	12/9/2021	Barium	ug/L	45.9	35	7	no
POC #2	2/28/2022	Barium	ug/L	48.2	35	7	no
POC #2	5/26/2022	Barium	ug/L	49.5	35	9	no
POC #2	9/18/2022	Barium	ug/L	49.6	5	0.736	no
POC #2	11/12/2022	Barium	ug/L	51.7	5	0.736	no
POC #2	2/13/2023	Barium	ug/L	47.7	5	0.736	no
POC #2	5/7/2023	Barium	ug/L	7.08	5	0.736	yes

APPENDIX A
Groundwater Monitoring Results for POC #1, POC #2, POC #3, and POC #4
 EFRI - Pinyon Plain Mine

Well	Date	Parameter	Units	Result	PQL	MDL	Extreme Outlier?
POC #2	8/3/2023	Barium	ug/L	51.7	5	0.736	no
POC #2	12/10/2023	Barium	ug/L	49.1	5	0.736	no
POC #2	3/16/2021	Beryllium	ug/L	<0.08	0.25	0.08	NA
POC #2	5/10/2021	Beryllium	ug/L	<0.08	0.25	0.08	NA
POC #2	9/1/2021	Beryllium	ug/L	<0.08	0.25	0.08	NA
POC #2	12/9/2021	Beryllium	ug/L	<0.08	0.25	0.08	NA
POC #2	2/28/2022	Beryllium	ug/L	<0.08	0.25	0.08	NA
POC #2	5/26/2022	Beryllium	ug/L	<0.08	0.25	0.08	NA
POC #2	9/18/2022	Beryllium	ug/L	<0.33	2	0.33	NA
POC #2	11/12/2022	Beryllium	ug/L	<0.33	2	0.33	NA
POC #2	2/13/2023	Beryllium	ug/L	<0.33	2	0.33	NA
POC #2	5/7/2023	Beryllium	ug/L	<0.33	2	0.33	NA
POC #2	8/3/2023	Beryllium	ug/L	<0.33	2	0.33	NA
POC #2	12/10/2023	Beryllium	ug/L	<0.33	2	0.33	NA
POC #2	3/16/2021	Cadmium	ug/L	<0.05	0.25	0.05	NA
POC #2	5/10/2021	Cadmium	ug/L	<0.05	0.25	0.05	NA
POC #2	9/1/2021	Cadmium	ug/L	<0.05	0.25	0.05	NA
POC #2	12/9/2021	Cadmium	ug/L	<0.05	0.25	0.05	NA
POC #2	2/28/2022	Cadmium	ug/L	<0.05	0.25	0.05	NA
POC #2	5/26/2022	Cadmium	ug/L	<0.05	0.25	0.05	NA
POC #2	9/18/2022	Cadmium	ug/L	<0.479	2	0.479	NA
POC #2	11/12/2022	Cadmium	ug/L	0.541	2	0.479	NA
POC #2	2/13/2023	Cadmium	ug/L	0.72	2	0.479	NA
POC #2	5/7/2023	Cadmium	ug/L	0.908	2	0.479	NA
POC #2	8/3/2023	Cadmium	ug/L	<0.479	2	0.479	NA
POC #2	12/10/2023	Cadmium	ug/L	<0.479	2	0.479	NA
POC #2	3/16/2021	Chromium	ug/L	<10	50	10	NA
POC #2	5/10/2021	Chromium	ug/L	<20	50	20	NA
POC #2	9/1/2021	Chromium	ug/L	<20	50	20	NA
POC #2	12/9/2021	Chromium	ug/L	<20	50	20	NA
POC #2	2/28/2022	Chromium	ug/L	<20	50	20	NA
POC #2	5/26/2022	Chromium	ug/L	<20	50	20	NA
POC #2	9/18/2022	Chromium	ug/L	<1.4	10	1.4	NA
POC #2	11/12/2022	Chromium	ug/L	1.76	10	1.4	NA
POC #2	2/13/2023	Chromium	ug/L	1.8	10	1.4	NA
POC #2	5/7/2023	Chromium	ug/L	<1.4	10	1.4	NA
POC #2	8/3/2023	Chromium	ug/L	<1.4	10	1.4	NA
POC #2	12/10/2023	Chromium	ug/L	<1.4	10	1.4	NA
POC #2	3/16/2021	Field pH	s.u.	7.16			no

APPENDIX A
Groundwater Monitoring Results for POC #1, POC #2, POC #3, and POC #4
 EFRI - Pinyon Plain Mine

Well	Date	Parameter	Units	Result	PQL	MDL	Extreme Outlier?
POC #2	5/10/2021	Field pH	s.u.	7.46			no
POC #2	9/1/2021	Field pH	s.u.	8.02			no
POC #2	12/9/2021	Field pH	s.u.	10.43			yes
POC #2	2/28/2022	Field pH	s.u.	7.18			no
POC #2	5/26/2022	Field pH	s.u.	7.38			no
POC #2	9/17/2022	Field pH	s.u.	7.4			no
POC #2	11/12/2022	Field pH	s.u.	7.54			no
POC #2	2/13/2023	Field pH	s.u.	7.64			no
POC #2	5/6/2023	Field pH	s.u.	7.29			no
POC #2	8/3/2023	Field pH	s.u.	6.94			no
POC #2	12/10/2023	Field pH	s.u.	7.08			no
POC #2	3/16/2021	Fluoride	mg/L	<0.1	0.5	0.1	no
POC #2	5/10/2021	Fluoride	mg/L	<0.1	0.5	0.1	no
POC #2	9/1/2021	Fluoride	mg/L	0.17	0.35	0.15	no
POC #2	12/9/2021	Fluoride	mg/L	<0.15	0.35	0.15	no
POC #2	2/28/2022	Fluoride	mg/L	<0.15	0.35	0.15	no
POC #2	5/26/2022	Fluoride	mg/L	0.17	0.35	0.15	no
POC #2	9/18/2022	Fluoride	mg/L	0.132	0.15	0.064	no
POC #2	11/12/2022	Fluoride	mg/L	0.284	0.15	0.064	no
POC #2	2/13/2023	Fluoride	mg/L	0.121	0.15	0.064	no
POC #2	5/7/2023	Fluoride	mg/L	0.493	0.5	0.198	yes
POC #2	8/3/2023	Fluoride	mg/L	0.12	0.15	0.064	no
POC #2	12/10/2023	Fluoride	mg/L	0.0712	0.15	0.064	no
POC #2	3/16/2021	Gross Alpha minus Rn and U	pCi/L	6.8			no
POC #2	5/10/2021	Gross Alpha minus Rn and U	pCi/L	-110			yes
POC #2	9/1/2021	Gross Alpha minus Rn and U	pCi/L	4.1			no
POC #2	12/9/2021	Gross Alpha minus Rn and U	pCi/L	9.85			no
POC #2	5/26/2022	Gross Alpha minus Rn and U	pCi/L	6.3			no
POC #2	9/17/2022	Gross Alpha minus Rn and U	pCi/L	7.53			no
POC #2	11/12/2022	Gross Alpha minus Rn and U	pCi/L	4.11			no
POC #2	2/13/2023	Gross Alpha minus Rn and U	pCi/L	5.64			no
POC #2	5/7/2023	Gross Alpha minus Rn and U	pCi/L	5.14			no
POC #2	8/3/2023	Gross Alpha minus Rn and U	pCi/L	13.3			no
POC #2	12/10/2023	Gross Alpha minus Rn and U	pCi/L	17.3			no
POC #2	3/16/2021	Lead	ug/L	<0.1	0.5	0.1	NA
POC #2	5/10/2021	Lead	ug/L	<0.1	0.5	0.1	NA
POC #2	9/1/2021	Lead	ug/L	0.38	0.5	0.1	NA
POC #2	12/9/2021	Lead	ug/L	<0.1	0.5	0.1	NA
POC #2	2/28/2022	Lead	ug/L	<0.1	0.5	0.1	NA

APPENDIX A
Groundwater Monitoring Results for POC #1, POC #2, POC #3, and POC #4
 EFRI - Pinyon Plain Mine

Well	Date	Parameter	Units	Result	PQL	MDL	Extreme Outlier?
POC #2	5/26/2022	Lead	ug/L	<0.1	0.5	0.1	NA
POC #2	9/18/2022	Lead	ug/L	<2.99	6	2.99	NA
POC #2	11/12/2022	Lead	ug/L	<2.99	6	2.99	NA
POC #2	2/13/2023	Lead	ug/L	<2.99	6	2.99	NA
POC #2	5/7/2023	Lead	ug/L	3.54	6	2.99	NA
POC #2	8/3/2023	Lead	ug/L	<2.99	6	2.99	NA
POC #2	12/10/2023	Lead	ug/L	<2.99	6	2.99	NA
POC #2	3/16/2021	Mercury	ug/L	<0.2	1	0.2	NA
POC #2	5/10/2021	Mercury	ug/L	<0.2	1	0.2	NA
POC #2	9/1/2021	Mercury	ug/L	<0.2	1	0.2	NA
POC #2	12/9/2021	Mercury	ug/L	<0.2	1	0.2	NA
POC #2	2/28/2022	Mercury	ug/L	<0.2	1	0.2	NA
POC #2	5/26/2022	Mercury	ug/L	<0.2	1	0.2	NA
POC #2	9/18/2022	Mercury	ug/L	<0.1	0.2	0.1	NA
POC #2	11/12/2022	Mercury	ug/L	<0.1	0.2	0.1	NA
POC #2	2/13/2023	Mercury	ug/L	<0.1	0.2	0.1	NA
POC #2	5/7/2023	Mercury	ug/L	<0.1	0.2	0.1	NA
POC #2	8/3/2023	Mercury	ug/L	<0.1	0.2	0.1	NA
POC #2	12/10/2023	Mercury	ug/L	<0.1	0.2	0.1	NA
POC #2	3/16/2021	Nickel	ug/L	23.8	40	8	no
POC #2	5/10/2021	Nickel	ug/L	25.6	40	8	no
POC #2	9/1/2021	Nickel	ug/L	17.4	40	8	no
POC #2	12/9/2021	Nickel	ug/L	15.9	40	8	no
POC #2	2/28/2022	Nickel	ug/L	19.3	40	8	no
POC #2	5/26/2022	Nickel	ug/L	16.8	40	8	no
POC #2	9/18/2022	Nickel	ug/L	15.6	10	1.61	no
POC #2	11/12/2022	Nickel	ug/L	17.7	10	1.61	no
POC #2	2/13/2023	Nickel	ug/L	16.4	10	1.61	no
POC #2	5/7/2023	Nickel	ug/L	207	10	1.61	yes
POC #2	8/3/2023	Nickel	ug/L	19	10	1.61	no
POC #2	12/10/2023	Nickel	ug/L	18	10	1.61	no
POC #2	3/16/2021	Nitrate + Nitrite as N	mg/L	0.02	0.1	0.02	NA
POC #2	5/10/2021	Nitrate + Nitrite as N	mg/L	0.02	0.1	0.02	NA
POC #2	9/1/2021	Nitrate + Nitrite as N	mg/L	<0.02	0.1	0.02	NA
POC #2	12/9/2021	Nitrate + Nitrite as N	mg/L	<0.02	0.1	0.02	NA
POC #2	2/28/2022	Nitrate + Nitrite as N	mg/L	<0.02	0.1	0.02	NA
POC #2	5/26/2022	Nitrate + Nitrite as N	mg/L	<0.02	0.1	0.02	NA
POC #2	9/18/2022	Nitrate + Nitrite as N	mg/L	<0.05	0.1	0.05	NA
POC #2	9/18/2022	Nitrate + Nitrite as N	mg/L	<0.05	0.1	0.05	NA

APPENDIX A
Groundwater Monitoring Results for POC #1, POC #2, POC #3, and POC #4
 EFRI - Pinyon Plain Mine

Well	Date	Parameter	Units	Result	PQL	MDL	Extreme Outlier?
POC #2	11/12/2022	Nitrate + Nitrite as N	mg/L	<0.05	0.1	0.05	NA
POC #2	2/13/2023	Nitrate + Nitrite as N	mg/L	<0.05	0.1	0.05	NA
POC #2	5/7/2023	Nitrate + Nitrite as N	mg/L	<0.05	0.1	0.05	NA
POC #2	8/3/2023	Nitrate + Nitrite as N	mg/L	<0.05	0.1	0.05	NA
POC #2	12/10/2023	Nitrate + Nitrite as N	mg/L	<0.05	0.1	0.05	NA
POC #2	3/16/2021	Radium-226+228	pCi/L	6.1			yes
POC #2	5/10/2021	Radium-226+228	pCi/L	2.68			no
POC #2	9/1/2021	Radium-226+228	pCi/L	3.44			no
POC #2	12/9/2021	Radium-226+228	pCi/L	2.466			no
POC #2	2/28/2022	Radium-226+228	pCi/L	2.787			no
POC #2	5/26/2022	Radium-226+228	pCi/L	1.372			no
POC #2	9/17/2022	Radium-226+228	pCi/L	2.479			no
POC #2	11/12/2022	Radium-226+228	pCi/L	2.578			no
POC #2	2/13/2023	Radium-226+228	pCi/L	2.641			no
POC #2	5/7/2023	Radium-226+228	pCi/L	2.905			no
POC #2	8/3/2023	Radium-226+228	pCi/L	3.701			no
POC #2	12/10/2023	Radium-226+228	pCi/L	4.936			no
POC #2	3/16/2021	Selenium	ug/L	<0.1	0.25	0.1	NA
POC #2	5/10/2021	Selenium	ug/L	<0.1	0.25	0.1	NA
POC #2	9/1/2021	Selenium	ug/L	<0.1	0.25	0.1	NA
POC #2	12/9/2021	Selenium	ug/L	<0.1	0.25	0.1	NA
POC #2	2/28/2022	Selenium	ug/L	<0.1	0.25	0.1	NA
POC #2	5/26/2022	Selenium	ug/L	<0.1	0.25	0.1	NA
POC #2	9/18/2022	Selenium	ug/L	<7.35	10	7.35	NA
POC #2	11/12/2022	Selenium	ug/L	<7.35	10	7.35	NA
POC #2	2/13/2023	Selenium	ug/L	<7.35	10	7.35	NA
POC #2	5/7/2023	Selenium	ug/L	<7.35	10	7.35	NA
POC #2	8/3/2023	Selenium	ug/L	<7.35	10	7.35	NA
POC #2	12/10/2023	Selenium	ug/L	<7.35	10	7.35	NA
POC #2	3/16/2021	Thallium	ug/L	1.52	0.5	0.1	no
POC #2	5/10/2021	Thallium	ug/L	1.11	0.5	0.1	no
POC #2	9/1/2021	Thallium	ug/L	0.76	0.5	0.1	no
POC #2	12/9/2021	Thallium	ug/L	0.74	0.5	0.1	no
POC #2	2/28/2022	Thallium	ug/L	0.77	0.5	0.1	no
POC #2	5/26/2022	Thallium	ug/L	0.72	0.5	0.1	no
POC #2	5/7/2023	Thallium	ug/L	0.168	2	0.121	no
POC #2	8/3/2023	Thallium	ug/L	0.784	2	0.121	no
POC #2	12/10/2023	Thallium	ug/L	0.655	2	0.121	no
POC #2	3/16/2021	Uranium	ug/L	9.57	0.5	0.1	no

APPENDIX A
Groundwater Monitoring Results for POC #1, POC #2, POC #3, and POC #4
 EFRI - Pinyon Plain Mine

Well	Date	Parameter	Units	Result	PQL	MDL	Extreme Outlier?
POC #2	5/10/2021	Uranium	ug/L	7.65	0.5	0.1	no
POC #2	9/1/2021	Uranium	ug/L	5.72	0.5	0.1	no
POC #2	12/9/2021	Uranium	ug/L	4.76	0.5	0.1	no
POC #2	2/28/2022	Uranium	ug/L	6.17	0.5	0.1	no
POC #2	5/26/2022	Uranium	ug/L	5.46	0.5	0.1	no
POC #2	9/18/2022	Uranium	ug/L	5.04	1	0.0789	no
POC #2	11/12/2022	Uranium	ug/L	5.13	1	0.0789	no
POC #2	2/13/2023	Uranium	ug/L	4.7	1	0.0789	no
POC #2	5/7/2023	Uranium	ug/L	6.98	1	0.0789	no
POC #2	8/3/2023	Uranium	ug/L	4.19	1	0.0789	no
POC #2	12/10/2023	Uranium	ug/L	5.51	1	0.0789	no
POC #3	3/17/2021	Antimony	ug/L	<0.4	2	0.4	NA
POC #3	5/11/2021	Antimony	ug/L	<0.4	2	0.4	NA
POC #3	9/2/2021	Antimony	ug/L	<0.4	2	0.4	NA
POC #3	12/8/2021	Antimony	ug/L	<0.4	2	0.4	NA
POC #3	3/2/2022	Antimony	ug/L	<0.4	2	0.4	NA
POC #3	5/25/2022	Antimony	ug/L	<0.4	2	0.4	NA
POC #3	9/18/2022	Antimony	ug/L	<4.3	10	4.3	NA
POC #3	11/12/2022	Antimony	ug/L	7.92	10	4.3	NA
POC #3	2/12/2023	Antimony	ug/L	<4.3	10	4.3	NA
POC #3	5/7/2023	Antimony	ug/L	<1.03	4	1.03	NA
POC #3	8/2/2023	Antimony	ug/L	<1.03	4	1.03	NA
POC #3	12/12/2023	Antimony	ug/L	<1.03	4	1.03	NA
POC #3	3/17/2021	Arsenic	ug/L	28.8	1	0.2	no
POC #3	5/11/2021	Arsenic	ug/L	32	1	0.2	no
POC #3	9/2/2021	Arsenic	ug/L	6.85	1	0.2	no
POC #3	12/8/2021	Arsenic	ug/L	12	1	0.2	no
POC #3	3/2/2022	Arsenic	ug/L	12.3	1	0.2	no
POC #3	5/25/2022	Arsenic	ug/L	18.2	1	0.2	no
POC #3	9/18/2022	Arsenic	ug/L	22.1	10	4.4	no
POC #3	11/12/2022	Arsenic	ug/L	20	10	4.4	no
POC #3	2/12/2023	Arsenic	ug/L	26.7	10	4.4	no
POC #3	5/7/2023	Arsenic	ug/L	<4.4	10	4.4	no
POC #3	8/2/2023	Arsenic	ug/L	10.5	10	4.4	no
POC #3	12/12/2023	Arsenic	ug/L	22.2	10	4.4	no
POC #3	3/17/2021	Barium	ug/L	9.3	35	7	no
POC #3	5/11/2021	Barium	ug/L	13.3	35	7	no
POC #3	9/2/2021	Barium	ug/L	15.5	35	7	no
POC #3	12/8/2021	Barium	ug/L	7.2	35	7	no

APPENDIX A
Groundwater Monitoring Results for POC #1, POC #2, POC #3, and POC #4
 EFRI - Pinyon Plain Mine

Well	Date	Parameter	Units	Result	PQL	MDL	Extreme Outlier?
POC #3	3/2/2022	Barium	ug/L	9	35	7	no
POC #3	5/25/2022	Barium	ug/L	9.4	35	9	no
POC #3	9/18/2022	Barium	ug/L	8.21	5	0.736	no
POC #3	11/12/2022	Barium	ug/L	1.9	5	0.736	no
POC #3	2/12/2023	Barium	ug/L	8.14	5	0.736	no
POC #3	5/7/2023	Barium	ug/L	49.2	5	0.736	yes
POC #3	8/2/2023	Barium	ug/L	6.44	5	0.736	no
POC #3	12/12/2023	Barium	ug/L	8.48	5	0.736	no
POC #3	3/17/2021	Beryllium	ug/L	<0.08	0.25	0.08	NA
POC #3	5/11/2021	Beryllium	ug/L	<0.08	0.25	0.08	NA
POC #3	9/2/2021	Beryllium	ug/L	<0.08	0.25	0.08	NA
POC #3	12/8/2021	Beryllium	ug/L	<0.08	0.25	0.08	NA
POC #3	3/2/2022	Beryllium	ug/L	<0.08	0.25	0.08	NA
POC #3	5/25/2022	Beryllium	ug/L	<0.08	0.25	0.08	NA
POC #3	9/18/2022	Beryllium	ug/L	<0.33	2	0.33	NA
POC #3	11/12/2022	Beryllium	ug/L	<0.33	2	0.33	NA
POC #3	2/12/2023	Beryllium	ug/L	<0.33	2	0.33	NA
POC #3	5/7/2023	Beryllium	ug/L	<0.33	2	0.33	NA
POC #3	8/2/2023	Beryllium	ug/L	<0.33	2	0.33	NA
POC #3	12/12/2023	Beryllium	ug/L	<0.33	2	0.33	NA
POC #3	3/17/2021	Cadmium	ug/L	<0.05	0.25	0.05	NA
POC #3	5/11/2021	Cadmium	ug/L	<0.05	0.25	0.05	NA
POC #3	9/2/2021	Cadmium	ug/L	<0.05	0.25	0.05	NA
POC #3	12/8/2021	Cadmium	ug/L	<0.05	0.25	0.05	NA
POC #3	3/2/2022	Cadmium	ug/L	<0.05	0.25	0.05	NA
POC #3	5/25/2022	Cadmium	ug/L	<0.05	0.25	0.05	NA
POC #3	9/18/2022	Cadmium	ug/L	<0.479	2	0.479	NA
POC #3	11/12/2022	Cadmium	ug/L	0.563	2	0.479	NA
POC #3	2/12/2023	Cadmium	ug/L	<0.479	2	0.479	NA
POC #3	5/7/2023	Cadmium	ug/L	<0.479	2	0.479	NA
POC #3	8/2/2023	Cadmium	ug/L	<0.479	2	0.479	NA
POC #3	12/12/2023	Cadmium	ug/L	<0.479	2	0.479	NA
POC #3	3/17/2021	Chromium	ug/L	<10	50	10	NA
POC #3	5/11/2021	Chromium	ug/L	<20	50	20	NA
POC #3	9/2/2021	Chromium	ug/L	<20	50	20	NA
POC #3	12/8/2021	Chromium	ug/L	<20	50	20	NA
POC #3	3/2/2022	Chromium	ug/L	<20	50	20	NA
POC #3	5/25/2022	Chromium	ug/L	<20	50	20	NA
POC #3	9/18/2022	Chromium	ug/L	<1.4	10	1.4	NA

APPENDIX A
Groundwater Monitoring Results for POC #1, POC #2, POC #3, and POC #4
 EFRI - Pinyon Plain Mine

Well	Date	Parameter	Units	Result	PQL	MDL	Extreme Outlier?
POC #3	11/12/2022	Chromium	ug/L	<1.4	10	1.4	NA
POC #3	2/12/2023	Chromium	ug/L	<1.4	10	1.4	NA
POC #3	5/7/2023	Chromium	ug/L	<1.4	10	1.4	NA
POC #3	8/2/2023	Chromium	ug/L	<1.4	10	1.4	NA
POC #3	12/12/2023	Chromium	ug/L	<1.4	10	1.4	NA
POC #3	3/17/2021	Field pH	s.u.	6.47			no
POC #3	5/11/2021	Field pH	s.u.	7.12			no
POC #3	9/2/2021	Field pH	s.u.	7.91			no
POC #3	12/8/2021	Field pH	s.u.	9.01			no
POC #3	12/9/2021	Field pH	s.u.	10.43			yes
POC #3	3/2/2022	Field pH	s.u.	6.71			no
POC #3	5/24/2022	Field pH	s.u.	7.08			no
POC #3	9/19/2022	Field pH	s.u.	7.15			no
POC #3	11/13/2022	Field pH	s.u.	7.38			no
POC #3	2/12/2023	Field pH	s.u.	7.76			no
POC #3	5/7/2023	Field pH	s.u.	7.09			no
POC #3	8/2/2023	Field pH	s.u.	7.61			no
POC #3	12/12/2023	Field pH	s.u.	6.97			no
POC #3	3/17/2021	Fluoride	mg/L	<0.5	2.5	0.5	no
POC #3	5/11/2021	Fluoride	mg/L	<0.5	2.5	0.5	no
POC #3	9/2/2021	Fluoride	mg/L	0.15	0.35	0.15	no
POC #3	12/8/2021	Fluoride	mg/L	<0.15	0.35	0.15	no
POC #3	3/2/2022	Fluoride	mg/L	<0.15	0.35	0.15	no
POC #3	5/25/2022	Fluoride	mg/L	<0.75	1.75	0.75	no
POC #3	9/18/2022	Fluoride	mg/L	0.0694	0.15	0.064	no
POC #3	11/12/2022	Fluoride	mg/L	0.205	0.15	0.064	no
POC #3	2/12/2023	Fluoride	mg/L	0.0799	0.15	0.064	no
POC #3	5/7/2023	Fluoride	mg/L	<0.198	0.5	0.198	no
POC #3	8/2/2023	Fluoride	mg/L	0.0754	0.15	0.064	no
POC #3	12/12/2023	Fluoride	mg/L	<0.064	0.15	0.064	no
POC #3	3/17/2021	Gross Alpha minus Rn and U	pCi/L	-3.4			no
POC #3	5/11/2021	Gross Alpha minus Rn and U	pCi/L	7.9			no
POC #3	9/2/2021	Gross Alpha minus Rn and U	pCi/L	3.7			no
POC #3	12/8/2021	Gross Alpha minus Rn and U	pCi/L	8.21			no
POC #3	5/25/2022	Gross Alpha minus Rn and U	pCi/L	8.03			no
POC #3	9/19/2022	Gross Alpha minus Rn and U	pCi/L	2.08			no
POC #3	11/12/2022	Gross Alpha minus Rn and U	pCi/L	3.49			no
POC #3	2/12/2023	Gross Alpha minus Rn and U	pCi/L	13.4			no
POC #3	5/7/2023	Gross Alpha minus Rn and U	pCi/L	3.19			no

APPENDIX A
Groundwater Monitoring Results for POC #1, POC #2, POC #3, and POC #4
EFRI - Pinyon Plain Mine

Well	Date	Parameter	Units	Result	PQL	MDL	Extreme Outlier?
POC #3	8/2/2023	Gross Alpha minus Rn and U	pCi/L	-4.73			no
POC #3	12/12/2023	Gross Alpha minus Rn and U	pCi/L	17.4			no
POC #3	3/17/2021	Lead	ug/L	<0.1	0.5	0.1	NA
POC #3	5/11/2021	Lead	ug/L	<0.1	0.5	0.1	NA
POC #3	9/2/2021	Lead	ug/L	<0.1	0.5	0.1	NA
POC #3	12/8/2021	Lead	ug/L	<0.1	0.5	0.1	NA
POC #3	3/2/2022	Lead	ug/L	<0.1	0.5	0.1	NA
POC #3	5/25/2022	Lead	ug/L	<0.1	0.5	0.1	NA
POC #3	9/18/2022	Lead	ug/L	<2.99	6	2.99	NA
POC #3	11/12/2022	Lead	ug/L	<2.99	6	2.99	NA
POC #3	2/12/2023	Lead	ug/L	<2.99	6	2.99	NA
POC #3	5/7/2023	Lead	ug/L	<2.99	6	2.99	NA
POC #3	8/2/2023	Lead	ug/L	<2.99	6	2.99	NA
POC #3	12/12/2023	Lead	ug/L	3.1	6	2.99	NA
POC #3	3/17/2021	Mercury	ug/L	<0.2	1	0.2	NA
POC #3	5/11/2021	Mercury	ug/L	<0.2	1	0.2	NA
POC #3	9/2/2021	Mercury	ug/L	<0.2	1	0.2	NA
POC #3	12/8/2021	Mercury	ug/L	<0.2	1	0.2	NA
POC #3	3/2/2022	Mercury	ug/L	<0.2	1	0.2	NA
POC #3	5/25/2022	Mercury	ug/L	<0.2	1	0.2	NA
POC #3	9/18/2022	Mercury	ug/L	<0.1	0.2	0.1	NA
POC #3	11/12/2022	Mercury	ug/L	<0.1	0.2	0.1	NA
POC #3	2/12/2023	Mercury	ug/L	<0.1	0.2	0.1	NA
POC #3	5/7/2023	Mercury	ug/L	<0.1	0.2	0.1	NA
POC #3	8/2/2023	Mercury	ug/L	<0.1	0.2	0.1	NA
POC #3	12/12/2023	Mercury	ug/L	<0.1	0.2	0.1	NA
POC #3	3/17/2021	Nickel	ug/L	357	40	8	no
POC #3	5/11/2021	Nickel	ug/L	300	40	8	no
POC #3	9/2/2021	Nickel	ug/L	208	40	8	no
POC #3	12/8/2021	Nickel	ug/L	193	40	8	no
POC #3	3/2/2022	Nickel	ug/L	195	40	8	no
POC #3	5/25/2022	Nickel	ug/L	169	40	8	no
POC #3	9/18/2022	Nickel	ug/L	154	10	1.61	no
POC #3	11/12/2022	Nickel	ug/L	185	10	1.61	no
POC #3	2/12/2023	Nickel	ug/L	175	10	1.61	no
POC #3	5/7/2023	Nickel	ug/L	16.6	10	1.61	no
POC #3	8/2/2023	Nickel	ug/L	227	10	1.61	no
POC #3	12/12/2023	Nickel	ug/L	238	10	1.61	no
POC #3	3/17/2021	Nitrate + Nitrite as N	mg/L	<0.02	0.1	0.02	NA

APPENDIX A
Groundwater Monitoring Results for POC #1, POC #2, POC #3, and POC #4
 EFRI - Pinyon Plain Mine

Well	Date	Parameter	Units	Result	PQL	MDL	Extreme Outlier?
POC #3	5/11/2021	Nitrate + Nitrite as N	mg/L	<0.02	0.1	0.02	NA
POC #3	9/2/2021	Nitrate + Nitrite as N	mg/L	<0.02	0.1	0.02	NA
POC #3	12/8/2021	Nitrate + Nitrite as N	mg/L	<0.02	0.1	0.02	NA
POC #3	3/2/2022	Nitrate + Nitrite as N	mg/L	<0.02	0.1	0.02	NA
POC #3	5/25/2022	Nitrate + Nitrite as N	mg/L	<0.02	0.1	0.02	NA
POC #3	9/18/2022	Nitrate + Nitrite as N	mg/L	<0.05	0.1	0.05	NA
POC #3	11/12/2022	Nitrate + Nitrite as N	mg/L	<0.05	0.1	0.05	NA
POC #3	2/12/2023	Nitrate + Nitrite as N	mg/L	<0.05	0.1	0.05	NA
POC #3	5/7/2023	Nitrate + Nitrite as N	mg/L	<0.05	0.1	0.05	NA
POC #3	8/2/2023	Nitrate + Nitrite as N	mg/L	<0.05	0.1	0.05	NA
POC #3	12/12/2023	Nitrate + Nitrite as N	mg/L	<0.05	0.1	0.05	NA
POC #3	3/17/2021	Radium-226+228	pCi/L	1.85			no
POC #3	5/11/2021	Radium-226+228	pCi/L	1.19			no
POC #3	9/2/2021	Radium-226+228	pCi/L	3.3			no
POC #3	12/8/2021	Radium-226+228	pCi/L	1.834			no
POC #3	3/2/2022	Radium-226+228	pCi/L	2.8			no
POC #3	5/25/2022	Radium-226+228	pCi/L	1.644			no
POC #3	9/19/2022	Radium-226+228	pCi/L	2.191			no
POC #3	11/12/2022	Radium-226+228	pCi/L	2.157			no
POC #3	2/12/2023	Radium-226+228	pCi/L	1.455			no
POC #3	5/7/2023	Radium-226+228	pCi/L	2.511			no
POC #3	8/2/2023	Radium-226+228	pCi/L	3			no
POC #3	12/12/2023	Radium-226+228	pCi/L	2.265			no
POC #3	3/17/2021	Selenium	ug/L	<0.1	0.25	0.1	NA
POC #3	5/11/2021	Selenium	ug/L	<0.1	0.25	0.1	NA
POC #3	9/2/2021	Selenium	ug/L	<0.1	0.25	0.1	NA
POC #3	12/8/2021	Selenium	ug/L	<0.1	0.25	0.1	NA
POC #3	3/2/2022	Selenium	ug/L	<0.1	0.25	0.1	NA
POC #3	5/25/2022	Selenium	ug/L	<0.1	0.25	0.1	NA
POC #3	9/18/2022	Selenium	ug/L	<7.35	10	7.35	NA
POC #3	11/12/2022	Selenium	ug/L	<7.35	10	7.35	NA
POC #3	2/12/2023	Selenium	ug/L	14.8	10	7.35	NA
POC #3	5/7/2023	Selenium	ug/L	<7.35	10	7.35	NA
POC #3	8/2/2023	Selenium	ug/L	<7.35	10	7.35	NA
POC #3	12/12/2023	Selenium	ug/L	<7.35	10	7.35	NA
POC #3	3/17/2021	Thallium	ug/L	1.14	0.5	0.1	no
POC #3	5/11/2021	Thallium	ug/L	0.74	0.5	0.1	no
POC #3	9/2/2021	Thallium	ug/L	0.33	0.5	0.1	no
POC #3	12/8/2021	Thallium	ug/L	0.3	0.5	0.1	no

APPENDIX A
Groundwater Monitoring Results for POC #1, POC #2, POC #3, and POC #4
 EFRI - Pinyon Plain Mine

Well	Date	Parameter	Units	Result	PQL	MDL	Extreme Outlier?
POC #3	3/2/2022	Thallium	ug/L	0.38	0.5	0.1	no
POC #3	5/25/2022	Thallium	ug/L	0.26	0.5	0.1	no
POC #3	5/7/2023	Thallium	ug/L	0.677	2	0.121	no
POC #3	8/2/2023	Thallium	ug/L	0.246	2	0.121	no
POC #3	12/12/2023	Thallium	ug/L	<0.121	2	0.121	no
POC #3	3/17/2021	Uranium	ug/L	9.01	0.5	0.1	no
POC #3	5/11/2021	Uranium	ug/L	6.82	0.5	0.1	no
POC #3	9/2/2021	Uranium	ug/L	4.1	0.5	0.1	no
POC #3	12/8/2021	Uranium	ug/L	5.22	0.5	0.1	no
POC #3	3/2/2022	Uranium	ug/L	5.4	0.5	0.1	no
POC #3	5/25/2022	Uranium	ug/L	4.9	0.5	0.1	no
POC #3	9/18/2022	Uranium	ug/L	5.38	1	0.0789	no
POC #3	11/12/2022	Uranium	ug/L	4.96	1	0.0789	no
POC #3	2/12/2023	Uranium	ug/L	4.69	1	0.0789	no
POC #3	5/7/2023	Uranium	ug/L	4.72	1	0.0789	no
POC #3	8/2/2023	Uranium	ug/L	7.77	1	0.0789	no
POC #3	12/12/2023	Uranium	ug/L	13.6	1	0.0789	no
POC #4	9/10/1987	Antimony	ug/L	<10			NA
POC #4	12/1/1987	Antimony	ug/L	<100			NA
POC #4	6/28/1988	Antimony	ug/L	<100			NA
POC #4	9/11/2018	Antimony	ug/L	<0.4	2	0.4	NA
POC #4	3/17/2021	Antimony	ug/L	<0.4	2	0.4	NA
POC #4	5/25/2021	Antimony	ug/L	<0.4	2	0.4	NA
POC #4	8/5/2021	Antimony	ug/L	<0.4	2	0.4	NA
POC #4	12/8/2021	Antimony	ug/L	<0.4	2	0.4	NA
POC #4	3/1/2022	Antimony	ug/L	<0.4	2	0.4	NA
POC #4	5/25/2022	Antimony	ug/L	<0.4	2	0.4	NA
POC #4	9/27/2022	Antimony	ug/L	<4.3	10	4.3	NA
POC #4	11/16/2022	Antimony	ug/L	<1.03	4	1.03	NA
POC #4	3/27/2023	Antimony	ug/L	<1.03	4	1.03	NA
POC #4	5/7/2023	Antimony	ug/L	<1.03	4	1.03	NA
POC #4	8/2/2023	Antimony	ug/L	<1.03	4	1.03	NA
POC #4	12/12/2023	Antimony	ug/L	<1.03	4	1.03	NA
POC #4	4/30/1987	Barium	ug/L	300			yes
POC #4	9/10/1987	Barium	ug/L	180			NA
POC #4	12/1/1987	Barium	ug/L	<100			no
POC #4	6/28/1988	Barium	ug/L	<100			no
POC #4	9/20/1988	Barium	ug/L	90			no
POC #4	12/27/1988	Barium	ug/L	120			no

APPENDIX A
Groundwater Monitoring Results for POC #1, POC #2, POC #3, and POC #4
 EFRI - Pinyon Plain Mine

Well	Date	Parameter	Units	Result	PQL	MDL	Extreme Outlier?
POC #4	4/17/1989	Barium	ug/L	9			no
POC #4	5/30/1989	Barium	ug/L	<100			no
POC #4	9/4/1989	Barium	ug/L	100			no
POC #4	12/30/1989	Barium	ug/L	70			no
POC #4	3/30/1990	Barium	ug/L	150			no
POC #4	6/29/1990	Barium	ug/L	90			no
POC #4	9/19/1990	Barium	ug/L	90			no
POC #4	6/11/1991	Barium	ug/L	<100			no
POC #4	11/16/1992	Barium	ug/L	<100			no
POC #4	9/11/2018	Barium	ug/L	83	20	3	no
POC #4	3/17/2021	Barium	ug/L	84.5	35	7	no
POC #4	5/25/2021	Barium	ug/L	87.9	35	7	no
POC #4	8/5/2021	Barium	ug/L	86.5	35	7	no
POC #4	12/8/2021	Barium	ug/L	88.8	35	7	no
POC #4	3/1/2022	Barium	ug/L	87.3	35	7	no
POC #4	5/25/2022	Barium	ug/L	85.5	35	9	no
POC #4	9/27/2022	Barium	ug/L	81.8	5	0.736	no
POC #4	11/16/2022	Barium	ug/L	87	5	0.736	no
POC #4	3/27/2023	Barium	ug/L	79.1	5	0.736	no
POC #4	5/7/2023	Barium	ug/L	84.3	5	0.736	no
POC #4	8/2/2023	Barium	ug/L	78.5	5	0.736	no
POC #4	12/12/2023	Barium	ug/L	82	5	0.736	no
POC #4	9/10/1987	Beryllium	ug/L	<10			NA
POC #4	12/1/1987	Beryllium	ug/L	<10			NA
POC #4	6/28/1988	Beryllium	ug/L	<10			NA
POC #4	9/11/2018	Beryllium	ug/L	<0.05	0.3	0.05	NA
POC #4	3/17/2021	Beryllium	ug/L	<0.08	0.25	0.08	NA
POC #4	5/25/2021	Beryllium	ug/L	<0.08	0.25	0.08	NA
POC #4	8/5/2021	Beryllium	ug/L	<0.08	0.25	0.08	NA
POC #4	12/8/2021	Beryllium	ug/L	<0.08	0.25	0.08	NA
POC #4	3/1/2022	Beryllium	ug/L	<0.08	0.25	0.08	NA
POC #4	5/25/2022	Beryllium	ug/L	<0.08	0.25	0.08	NA
POC #4	9/27/2022	Beryllium	ug/L	<0.33	2	0.33	NA
POC #4	11/16/2022	Beryllium	ug/L	<0.33	2	0.33	NA
POC #4	3/27/2023	Beryllium	ug/L	<0.33	2	0.33	NA
POC #4	5/7/2023	Beryllium	ug/L	<0.33	2	0.33	NA
POC #4	8/2/2023	Beryllium	ug/L	<0.33	2	0.33	NA
POC #4	12/12/2023	Beryllium	ug/L	<0.33	2	0.33	NA
POC #4	4/30/1987	Cadmium	ug/L	<1			NA

APPENDIX A
Groundwater Monitoring Results for POC #1, POC #2, POC #3, and POC #4
 EFRI - Pinyon Plain Mine

Well	Date	Parameter	Units	Result	PQL	MDL	Extreme Outlier?
POC #4	9/10/1987	Cadmium	ug/L	<5			NA
POC #4	12/1/1987	Cadmium	ug/L	<5			NA
POC #4	6/28/1988	Cadmium	ug/L	<5			NA
POC #4	9/20/1988	Cadmium	ug/L	<5			NA
POC #4	12/27/1988	Cadmium	ug/L	<5			NA
POC #4	4/17/1989	Cadmium	ug/L	<5			NA
POC #4	5/30/1989	Cadmium	ug/L	<5			NA
POC #4	9/4/1989	Cadmium	ug/L	<5			NA
POC #4	12/30/1989	Cadmium	ug/L	<5			NA
POC #4	3/30/1990	Cadmium	ug/L	<5			NA
POC #4	6/29/1990	Cadmium	ug/L	<5			NA
POC #4	9/19/1990	Cadmium	ug/L	<5			NA
POC #4	6/11/1991	Cadmium	ug/L	<5			NA
POC #4	11/16/1992	Cadmium	ug/L	<5			NA
POC #4	9/11/2018	Cadmium	ug/L	<0.1	0.5	0.1	NA
POC #4	9/11/2019	Cadmium	ug/L	<0.05	0.3	0.05	NA
POC #4	3/17/2021	Cadmium	ug/L	<0.05	0.25	0.05	NA
POC #4	5/25/2021	Cadmium	ug/L	<0.05	0.25	0.05	NA
POC #4	8/5/2021	Cadmium	ug/L	<0.05	0.25	0.05	NA
POC #4	12/8/2021	Cadmium	ug/L	<0.05	0.25	0.05	NA
POC #4	3/1/2022	Cadmium	ug/L	<0.05	0.25	0.05	NA
POC #4	5/25/2022	Cadmium	ug/L	<0.05	0.25	0.05	NA
POC #4	9/27/2022	Cadmium	ug/L	<0.479	2	0.479	NA
POC #4	11/16/2022	Cadmium	ug/L	<0.479	2	0.479	NA
POC #4	3/27/2023	Cadmium	ug/L	<0.479	2	0.479	NA
POC #4	5/7/2023	Cadmium	ug/L	<0.479	2	0.479	NA
POC #4	8/2/2023	Cadmium	ug/L	<0.479	2	0.479	NA
POC #4	12/12/2023	Cadmium	ug/L	<0.479	2	0.479	NA
POC #4	4/30/1987	Chromium	ug/L	<30			NA
POC #4	9/10/1987	Chromium	ug/L	<10			NA
POC #4	12/1/1987	Chromium	ug/L	<10			NA
POC #4	6/28/1988	Chromium	ug/L	<10			NA
POC #4	9/20/1988	Chromium	ug/L	20			NA
POC #4	12/27/1988	Chromium	ug/L	<10			NA
POC #4	4/17/1989	Chromium	ug/L	<10			NA
POC #4	5/30/1989	Chromium	ug/L	<10			NA
POC #4	9/4/1989	Chromium	ug/L	<10			NA
POC #4	12/30/1989	Chromium	ug/L	<10			NA
POC #4	3/30/1990	Chromium	ug/L	<10			NA

APPENDIX A
Groundwater Monitoring Results for POC #1, POC #2, POC #3, and POC #4
 EFRI - Pinyon Plain Mine

Well	Date	Parameter	Units	Result	PQL	MDL	Extreme Outlier?
POC #4	6/29/1990	Chromium	ug/L	<10			NA
POC #4	9/19/1990	Chromium	ug/L	<10			NA
POC #4	6/11/1991	Chromium	ug/L	<10			NA
POC #4	11/16/1992	Chromium	ug/L	<10			NA
POC #4	9/11/2018	Chromium	ug/L	<10	50	10	NA
POC #4	9/11/2019	Chromium	ug/L	<0.5	2	0.5	NA
POC #4	3/17/2021	Chromium	ug/L	<10	50	10	NA
POC #4	5/25/2021	Chromium	ug/L	<20	50	20	NA
POC #4	8/5/2021	Chromium	ug/L	<20	50	20	NA
POC #4	12/8/2021	Chromium	ug/L	<20	50	20	NA
POC #4	3/1/2022	Chromium	ug/L	<20	50	20	NA
POC #4	5/25/2022	Chromium	ug/L	<20	50	20	NA
POC #4	9/27/2022	Chromium	ug/L	<1.4	10	1.4	NA
POC #4	11/16/2022	Chromium	ug/L	<1.4	10	1.4	NA
POC #4	3/27/2023	Chromium	ug/L	<1.4	10	1.4	NA
POC #4	5/7/2023	Chromium	ug/L	<1.4	10	1.4	NA
POC #4	8/2/2023	Chromium	ug/L	<1.4	10	1.4	NA
POC #4	12/12/2023	Chromium	ug/L	<1.4	10	1.4	NA
POC #4	3/14/2017	Field pH	s.u.	5.77			yes
POC #4	4/11/2017	Field pH	s.u.	7.97			no
POC #4	5/18/2017	Field pH	s.u.	7.44			no
POC #4	9/14/2017	Field pH	s.u.	7.94			no
POC #4	10/17/2017	Field pH	s.u.	6.91			no
POC #4	9/11/2018	Field pH	s.u.	7.35			no
POC #4	9/11/2019	Field pH	s.u.	7.35			no
POC #4	6/9/2020	Field pH	s.u.	7.65			no
POC #4	3/17/2021	Field pH	s.u.	7.26			no
POC #4	5/25/2021	Field pH	s.u.	7.35			no
POC #4	12/8/2021	Field pH	s.u.	9.4			yes
POC #4	3/1/2022	Field pH	s.u.	7.29			no
POC #4	5/25/2022	Field pH	s.u.	7.42			no
POC #4	9/27/2022	Field pH	s.u.	7.44			no
POC #4	11/16/2022	Field pH	s.u.	7.49			no
POC #4	3/27/2023	Field pH	s.u.	7.76			no
POC #4	5/7/2023	Field pH	s.u.	7.43			no
POC #4	8/2/2023	Field pH	s.u.	7			no
POC #4	12/12/2023	Field pH	s.u.	7.34			no
POC #4	4/30/1987	Fluoride	mg/L	0.29			no
POC #4	9/10/1987	Fluoride	mg/L	0.26			no

APPENDIX A
Groundwater Monitoring Results for POC #1, POC #2, POC #3, and POC #4
 EFRI - Pinyon Plain Mine

Well	Date	Parameter	Units	Result	PQL	MDL	Extreme Outlier?
POC #4	12/1/1987	Fluoride	mg/L	0.32			no
POC #4	4/29/1988	Fluoride	mg/L	0.36			no
POC #4	6/28/1988	Fluoride	mg/L	0.3			no
POC #4	9/20/1988	Fluoride	mg/L	0.35			no
POC #4	12/27/1988	Fluoride	mg/L	0.34			no
POC #4	4/17/1989	Fluoride	mg/L	0.33			no
POC #4	5/30/1989	Fluoride	mg/L	0.34			no
POC #4	9/4/1989	Fluoride	mg/L	0.3			no
POC #4	12/30/1989	Fluoride	mg/L	0.3			no
POC #4	3/30/1990	Fluoride	mg/L	0.3			no
POC #4	6/29/1990	Fluoride	mg/L	0.3			no
POC #4	9/19/1990	Fluoride	mg/L	0.3			no
POC #4	12/26/1990	Fluoride	mg/L	0.5			no
POC #4	3/22/1991	Fluoride	mg/L	0.5			no
POC #4	6/11/1991	Fluoride	mg/L	0.4			no
POC #4	8/20/1991	Fluoride	mg/L	<0.1			no
POC #4	12/24/1991	Fluoride	mg/L	0.2			no
POC #4	1/15/1992	Fluoride	mg/L	0.1			no
POC #4	5/1/1992	Fluoride	mg/L	0.4			no
POC #4	7/16/1992	Fluoride	mg/L	0.3			no
POC #4	11/16/1992	Fluoride	mg/L	0.3			no
POC #4	1/21/1993	Fluoride	mg/L	0.3			no
POC #4	5/14/1993	Fluoride	mg/L	0.2			no
POC #4	3/30/1995	Fluoride	mg/L	0.4	100		no
POC #4	5/11/1995	Fluoride	mg/L	0.4	100		no
POC #4	9/25/1995	Fluoride	mg/L	0.4	100		no
POC #4	10/27/1995	Fluoride	mg/L	0.3	100		no
POC #4	3/27/1996	Fluoride	mg/L	0.4	100		no
POC #4	5/29/1996	Fluoride	mg/L	0.3	100		no
POC #4	9/23/1996	Fluoride	mg/L	0.4	100		no
POC #4	12/1/1996	Fluoride	mg/L	0.3	100		no
POC #4	2/3/1997	Fluoride	mg/L	0.4	100		no
POC #4	6/16/1997	Fluoride	mg/L	0.3	100		no
POC #4	9/22/1997	Fluoride	mg/L	0.3	100		no
POC #4	12/10/1997	Fluoride	mg/L	0.3	100		no
POC #4	3/17/1998	Fluoride	mg/L	0.3	500		no
POC #4	6/22/1998	Fluoride	mg/L	0.5	500		no
POC #4	9/28/1998	Fluoride	mg/L	0.4	500		no
POC #4	11/12/1998	Fluoride	mg/L	0.3	500		no

APPENDIX A
Groundwater Monitoring Results for POC #1, POC #2, POC #3, and POC #4
 EFRI - Pinyon Plain Mine

Well	Date	Parameter	Units	Result	PQL	MDL	Extreme Outlier?
POC #4	3/14/2017	Fluoride	mg/L	0.29	250	50	no
POC #4	4/11/2017	Fluoride	mg/L	0.3	250	50	no
POC #4	5/18/2017	Fluoride	mg/L	0.33	250	50	no
POC #4	9/14/2017	Fluoride	mg/L	0.31	250	50	no
POC #4	10/17/2017	Fluoride	mg/L	0.28	250	50	no
POC #4	9/11/2018	Fluoride	mg/L	0.34	300	50	no
POC #4	9/11/2019	Fluoride	mg/L	0.32	250	50	no
POC #4	6/9/2020	Fluoride	mg/L	0.32	250	50	no
POC #4	3/17/2021	Fluoride	mg/L	0.265	250	50	no
POC #4	5/25/2021	Fluoride	mg/L	0.248	250	50	no
POC #4	8/5/2021	Fluoride	mg/L	0.68	350	150	yes
POC #4	12/8/2021	Fluoride	mg/L	0.29	350	150	no
POC #4	3/1/2022	Fluoride	mg/L	0.31	350	150	no
POC #4	5/25/2022	Fluoride	mg/L	0.34	350	150	no
POC #4	9/27/2022	Fluoride	mg/L	0.29	150	64	no
POC #4	11/16/2022	Fluoride	mg/L	0.317	150	64	no
POC #4	3/27/2023	Fluoride	mg/L	0.253	150	64	no
POC #4	5/7/2023	Fluoride	mg/L	0.425	500	198	no
POC #4	8/2/2023	Fluoride	mg/L	0.272	150	64	no
POC #4	12/12/2023	Fluoride	mg/L	0.171	150	64	no
POC #4	9/10/1987	Gross Alpha minus Rn and U	pCi/L	10.7			no
POC #4	12/1/1987	Gross Alpha minus Rn and U	pCi/L	-3.25			no
POC #4	4/29/1988	Gross Alpha minus Rn and U	pCi/L	4.2			no
POC #4	6/28/1988	Gross Alpha minus Rn and U	pCi/L	8.5			no
POC #4	9/20/1988	Gross Alpha minus Rn and U	pCi/L	2.1			no
POC #4	12/27/1988	Gross Alpha minus Rn and U	pCi/L	4.6			no
POC #4	4/17/1989	Gross Alpha minus Rn and U	pCi/L	7.5			no
POC #4	5/30/1989	Gross Alpha minus Rn and U	pCi/L	2.2			no
POC #4	9/4/1989	Gross Alpha minus Rn and U	pCi/L	6.9			no
POC #4	12/30/1989	Gross Alpha minus Rn and U	pCi/L	7			no
POC #4	3/30/1990	Gross Alpha minus Rn and U	pCi/L	10.2			no
POC #4	6/29/1990	Gross Alpha minus Rn and U	pCi/L	17.5			no
POC #4	9/19/1990	Gross Alpha minus Rn and U	pCi/L	10.21			no
POC #4	12/26/1990	Gross Alpha minus Rn and U	pCi/L	5.6			no
POC #4	3/22/1991	Gross Alpha minus Rn and U	pCi/L	6.1			no
POC #4	6/11/1991	Gross Alpha minus Rn and U	pCi/L	7.2			no
POC #4	8/20/1991	Gross Alpha minus Rn and U	pCi/L	-6.1			no
POC #4	12/24/1991	Gross Alpha minus Rn and U	pCi/L	4			no
POC #4	1/15/1992	Gross Alpha minus Rn and U	pCi/L	1.6			no

APPENDIX A
Groundwater Monitoring Results for POC #1, POC #2, POC #3, and POC #4
 EFRI - Pinyon Plain Mine

Well	Date	Parameter	Units	Result	PQL	MDL	Extreme Outlier?
POC #4	5/1/1992	Gross Alpha minus Rn and U	pCi/L	5.8			no
POC #4	7/16/1992	Gross Alpha minus Rn and U	pCi/L	3.8			no
POC #4	11/16/1992	Gross Alpha minus Rn and U	pCi/L	6.18			no
POC #4	1/21/1993	Gross Alpha minus Rn and U	pCi/L	38			yes
POC #4	5/14/1993	Gross Alpha minus Rn and U	pCi/L	3.6			no
POC #4	3/30/1995	Gross Alpha minus Rn and U	pCi/L	2.27			no
POC #4	5/11/1995	Gross Alpha minus Rn and U	pCi/L	2.07			no
POC #4	9/25/1995	Gross Alpha minus Rn and U	pCi/L	4.81			no
POC #4	10/27/1995	Gross Alpha minus Rn and U	pCi/L	3.18			no
POC #4	3/27/1996	Gross Alpha minus Rn and U	pCi/L	0.51			no
POC #4	5/29/1996	Gross Alpha minus Rn and U	pCi/L	1.54			no
POC #4	9/23/1996	Gross Alpha minus Rn and U	pCi/L	-0.76			no
POC #4	12/1/1996	Gross Alpha minus Rn and U	pCi/L	-8.37			no
POC #4	2/3/1997	Gross Alpha minus Rn and U	pCi/L	-5.54			no
POC #4	6/16/1997	Gross Alpha minus Rn and U	pCi/L	3.86			no
POC #4	9/22/1997	Gross Alpha minus Rn and U	pCi/L	3.19			no
POC #4	12/10/1997	Gross Alpha minus Rn and U	pCi/L	17.19			no
POC #4	3/17/1998	Gross Alpha minus Rn and U	pCi/L	30.98			yes
POC #4	6/22/1998	Gross Alpha minus Rn and U	pCi/L	1.18			no
POC #4	9/28/1998	Gross Alpha minus Rn and U	pCi/L	1.91			no
POC #4	11/12/1998	Gross Alpha minus Rn and U	pCi/L	8.55			no
POC #4	3/14/2017	Gross Alpha minus Rn and U	pCi/L	6.13			no
POC #4	4/11/2017	Gross Alpha minus Rn and U	pCi/L	9.76			no
POC #4	5/18/2017	Gross Alpha minus Rn and U	pCi/L	7.76			no
POC #4	9/14/2017	Gross Alpha minus Rn and U	pCi/L	8			no
POC #4	10/17/2017	Gross Alpha minus Rn and U	pCi/L	9.22			no
POC #4	6/9/2020	Gross Alpha minus Rn and U	pCi/L	9.86			no
POC #4	3/17/2021	Gross Alpha minus Rn and U	pCi/L	3			no
POC #4	5/25/2021	Gross Alpha minus Rn and U	pCi/L	-5.3			no
POC #4	8/5/2021	Gross Alpha minus Rn and U	pCi/L	8.6			no
POC #4	12/8/2021	Gross Alpha minus Rn and U	pCi/L	9.29			no
POC #4	5/25/2022	Gross Alpha minus Rn and U	pCi/L	4.19			no
POC #4	9/27/2022	Gross Alpha minus Rn and U	pCi/L	3.39			no
POC #4	11/16/2022	Gross Alpha minus Rn and U	pCi/L	6.81			no
POC #4	3/27/2023	Gross Alpha minus Rn and U	pCi/L	3.27			no
POC #4	5/7/2023	Gross Alpha minus Rn and U	pCi/L	4.98			no
POC #4	8/2/2023	Gross Alpha minus Rn and U	pCi/L	8.14			no
POC #4	12/12/2023	Gross Alpha minus Rn and U	pCi/L	6.06			no
POC #4	4/30/1987	Lead	ug/L	<1			NA

APPENDIX A
Groundwater Monitoring Results for POC #1, POC #2, POC #3, and POC #4
EFRI - Pinyon Plain Mine

Well	Date	Parameter	Units	Result	PQL	MDL	Extreme Outlier?
POC #4	9/10/1987	Lead	ug/L	20			NA
POC #4	12/1/1987	Lead	ug/L	<20			NA
POC #4	6/28/1988	Lead	ug/L	<10			NA
POC #4	9/20/1988	Lead	ug/L	<20			NA
POC #4	12/27/1988	Lead	ug/L	<20			NA
POC #4	4/17/1989	Lead	ug/L	<20			NA
POC #4	5/30/1989	Lead	ug/L	<20			NA
POC #4	9/4/1989	Lead	ug/L	<20			NA
POC #4	12/30/1989	Lead	ug/L	<20			NA
POC #4	3/30/1990	Lead	ug/L	<20			NA
POC #4	6/29/1990	Lead	ug/L	<20			NA
POC #4	9/19/1990	Lead	ug/L	<20			NA
POC #4	6/11/1991	Lead	ug/L	<5			NA
POC #4	11/16/1992	Lead	ug/L	<5			NA
POC #4	5/18/2017	Lead	ug/L	<0.1	0.5	0.1	NA
POC #4	9/14/2017	Lead	ug/L	0.2	0.5	0.1	NA
POC #4	10/17/2017	Lead	ug/L	0.1	0.5	0.1	NA
POC #4	9/11/2018	Lead	ug/L	2.3	0.5	0.1	NA
POC #4	9/11/2019	Lead	ug/L	0.2	0.5	0.1	NA
POC #4	6/9/2020	Lead	ug/L	0.1	0.5	0.1	NA
POC #4	3/17/2021	Lead	ug/L	0.3	0.5	0.1	NA
POC #4	5/25/2021	Lead	ug/L	0.49	0.5	0.1	NA
POC #4	8/5/2021	Lead	ug/L	0.26	0.5	0.1	NA
POC #4	12/8/2021	Lead	ug/L	<0.1	0.5	0.1	NA
POC #4	3/1/2022	Lead	ug/L	0.38	0.5	0.1	NA
POC #4	5/25/2022	Lead	ug/L	0.21	0.5	0.1	NA
POC #4	9/27/2022	Lead	ug/L	<2.99	6	2.99	NA
POC #4	11/16/2022	Lead	ug/L	<2.99	6	2.99	NA
POC #4	3/27/2023	Lead	ug/L	<2.99	6	2.99	NA
POC #4	5/7/2023	Lead	ug/L	<2.99	6	2.99	NA
POC #4	8/2/2023	Lead	ug/L	<2.99	6	2.99	NA
POC #4	12/12/2023	Lead	ug/L	<2.99	6	2.99	NA
POC #4	4/30/1987	Mercury	ug/L	<0.2			NA
POC #4	9/10/1987	Mercury	ug/L	<0.2			NA
POC #4	12/1/1987	Mercury	ug/L	<0.2			NA
POC #4	6/28/1988	Mercury	ug/L	0.9			NA
POC #4	9/20/1988	Mercury	ug/L	0.5			NA
POC #4	12/27/1988	Mercury	ug/L	0.4			NA
POC #4	4/17/1989	Mercury	ug/L	<0.2			NA

APPENDIX A
Groundwater Monitoring Results for POC #1, POC #2, POC #3, and POC #4
 EFRI - Pinyon Plain Mine

Well	Date	Parameter	Units	Result	PQL	MDL	Extreme Outlier?
POC #4	5/30/1989	Mercury	ug/L	0.4			NA
POC #4	9/4/1989	Mercury	ug/L	0.2			NA
POC #4	12/30/1989	Mercury	ug/L	<0.2			NA
POC #4	3/30/1990	Mercury	ug/L	<0.2			NA
POC #4	6/29/1990	Mercury	ug/L	<0.2			NA
POC #4	9/19/1990	Mercury	ug/L	0.3			NA
POC #4	6/11/1991	Mercury	ug/L	<0.2			NA
POC #4	11/16/1992	Mercury	ug/L	<0.2			NA
POC #4	9/11/2018	Mercury	ug/L	<0.2	1	0.2	NA
POC #4	3/17/2021	Mercury	ug/L	<0.2	1	0.2	NA
POC #4	5/25/2021	Mercury	ug/L	<0.2	1	0.2	NA
POC #4	8/5/2021	Mercury	ug/L	<0.2	1	0.2	NA
POC #4	12/8/2021	Mercury	ug/L	<0.2	1	0.2	NA
POC #4	3/1/2022	Mercury	ug/L	<0.2	1	0.2	NA
POC #4	5/25/2022	Mercury	ug/L	<0.2	1	0.2	NA
POC #4	9/27/2022	Mercury	ug/L	<0.1	0.2	0.1	NA
POC #4	11/16/2022	Mercury	ug/L	<0.1	0.2	0.1	NA
POC #4	3/27/2023	Mercury	ug/L	<0.1	0.2	0.1	NA
POC #4	5/7/2023	Mercury	ug/L	<0.1	0.2	0.1	NA
POC #4	8/2/2023	Mercury	ug/L	<0.1	0.2	0.1	NA
POC #4	12/12/2023	Mercury	ug/L	<0.1	0.2	0.1	NA
POC #4	9/10/1987	Nickel	ug/L	<50			no
POC #4	12/1/1987	Nickel	ug/L	<50			no
POC #4	6/28/1988	Nickel	ug/L	<50			no
POC #4	9/11/2018	Nickel	ug/L	11	40	8	no
POC #4	9/11/2019	Nickel	ug/L	<8	40	8	no
POC #4	3/17/2021	Nickel	ug/L	8.3	40	8	no
POC #4	5/25/2021	Nickel	ug/L	9.7	40	8	no
POC #4	8/5/2021	Nickel	ug/L	12.8	40	8	no
POC #4	12/8/2021	Nickel	ug/L	11.2	40	8	no
POC #4	3/1/2022	Nickel	ug/L	14.9	40	8	no
POC #4	5/25/2022	Nickel	ug/L	10	40	8	no
POC #4	9/27/2022	Nickel	ug/L	7.96	10	1.61	no
POC #4	11/16/2022	Nickel	ug/L	10.4	10	1.61	no
POC #4	3/27/2023	Nickel	ug/L	29.1	10	1.61	no
POC #4	5/7/2023	Nickel	ug/L	23.9	10	1.61	no
POC #4	8/2/2023	Nickel	ug/L	21.2	10	1.61	no
POC #4	12/12/2023	Nickel	ug/L	13	10	1.61	no
POC #4	12/10/1997	Nitrate + Nitrite as N	mg/L	0.1	100		no

APPENDIX A
Groundwater Monitoring Results for POC #1, POC #2, POC #3, and POC #4
 EFRI - Pinyon Plain Mine

Well	Date	Parameter	Units	Result	PQL	MDL	Extreme Outlier?
POC #4	3/17/1998	Nitrate + Nitrite as N	mg/L	0.21	100		no
POC #4	6/22/1998	Nitrate + Nitrite as N	mg/L	0.14	100		no
POC #4	9/28/1998	Nitrate + Nitrite as N	mg/L	0.15	100		no
POC #4	11/12/1998	Nitrate + Nitrite as N	mg/L	0.16	100		no
POC #4	3/14/2017	Nitrate + Nitrite as N	mg/L	<0.02	100	20	no
POC #4	4/11/2017	Nitrate + Nitrite as N	mg/L	<0.02	100	20	no
POC #4	5/18/2017	Nitrate + Nitrite as N	mg/L	0.04	100	20	no
POC #4	9/14/2017	Nitrate + Nitrite as N	mg/L	0.13	100	20	no
POC #4	10/17/2017	Nitrate + Nitrite as N	mg/L	0.2	100	20	no
POC #4	9/11/2018	Nitrate + Nitrite as N	mg/L	0.13	100	20	no
POC #4	9/11/2019	Nitrate + Nitrite as N	mg/L	0.13	100	20	no
POC #4	6/9/2020	Nitrate + Nitrite as N	mg/L	0.11	100	20	no
POC #4	3/17/2021	Nitrate + Nitrite as N	mg/L	0.101	100	20	no
POC #4	5/25/2021	Nitrate + Nitrite as N	mg/L	0.092	100	20	no
POC #4	8/5/2021	Nitrate + Nitrite as N	mg/L	0.094	100	20	no
POC #4	12/8/2021	Nitrate + Nitrite as N	mg/L	0.091	100	20	no
POC #4	3/1/2022	Nitrate + Nitrite as N	mg/L	0.076	100	20	no
POC #4	5/25/2022	Nitrate + Nitrite as N	mg/L	0.103	100	20	no
POC #4	9/27/2022	Nitrate + Nitrite as N	mg/L	0.0923	100	50	no
POC #4	9/27/2022	Nitrate + Nitrite as N	mg/L	0.0975	100	50	no
POC #4	11/16/2022	Nitrate + Nitrite as N	mg/L	0.0704	100	50	no
POC #4	3/27/2023	Nitrate + Nitrite as N	mg/L	0.0552	100	50	no
POC #4	5/7/2023	Nitrate + Nitrite as N	mg/L	0.113	100	50	no
POC #4	8/2/2023	Nitrate + Nitrite as N	mg/L	0.125	100	50	no
POC #4	12/12/2023	Nitrate + Nitrite as N	mg/L	0.099	100	50	no
POC #4	4/30/1987	Radium-226+228	pCi/L	2.4			no
POC #4	4/29/1988	Radium-226+228	pCi/L	4.3			no
POC #4	3/14/2017	Radium-226+228	pCi/L	4.44			no
POC #4	4/11/2017	Radium-226+228	pCi/L	5.05			no
POC #4	5/18/2017	Radium-226+228	pCi/L	4.47			no
POC #4	9/14/2017	Radium-226+228	pCi/L	4.46			no
POC #4	10/17/2017	Radium-226+228	pCi/L	5.48			no
POC #4	6/9/2020	Radium-226+228	pCi/L	5.76			no
POC #4	3/17/2021	Radium-226+228	pCi/L	7.58			no
POC #4	5/25/2021	Radium-226+228	pCi/L	6.95			no
POC #4	8/5/2021	Radium-226+228	pCi/L	5.25			no
POC #4	12/8/2021	Radium-226+228	pCi/L	6.85			no
POC #4	3/1/2022	Radium-226+228	pCi/L	5.99			no
POC #4	5/25/2022	Radium-226+228	pCi/L	4.028			no

APPENDIX A
Groundwater Monitoring Results for POC #1, POC #2, POC #3, and POC #4
 EFRI - Pinyon Plain Mine

Well	Date	Parameter	Units	Result	PQL	MDL	Extreme Outlier?
POC #4	9/27/2022	Radium-226+228	pCi/L	3.866			no
POC #4	11/16/2022	Radium-226+228	pCi/L	4.059			no
POC #4	3/27/2023	Radium-226+228	pCi/L	5.525			no
POC #4	5/7/2023	Radium-226+228	pCi/L	7.114			no
POC #4	8/2/2023	Radium-226+228	pCi/L	5.7823			no
POC #4	12/12/2023	Radium-226+228	pCi/L	5.5513			no
POC #4	4/30/1987	Selenium	ug/L	2			no
POC #4	9/10/1987	Selenium	ug/L	<5			no
POC #4	12/1/1987	Selenium	ug/L	<5			no
POC #4	6/28/1988	Selenium	ug/L	<5			no
POC #4	9/20/1988	Selenium	ug/L	9			no
POC #4	12/27/1988	Selenium	ug/L	<1			no
POC #4	4/17/1989	Selenium	ug/L	1			no
POC #4	5/30/1989	Selenium	ug/L	9			no
POC #4	9/4/1989	Selenium	ug/L	7			no
POC #4	12/30/1989	Selenium	ug/L	2			no
POC #4	3/30/1990	Selenium	ug/L	<1			no
POC #4	6/29/1990	Selenium	ug/L	8			no
POC #4	9/19/1990	Selenium	ug/L	4			no
POC #4	6/11/1991	Selenium	ug/L	7			no
POC #4	11/16/1992	Selenium	ug/L	5.4			no
POC #4	9/11/2018	Selenium	ug/L	4.8	0.3	0.1	no
POC #4	9/11/2019	Selenium	ug/L	6.7	0.3	0.1	no
POC #4	3/17/2021	Selenium	ug/L	5.08	0.25	0.1	no
POC #4	5/25/2021	Selenium	ug/L	5.3	0.25	0.1	no
POC #4	8/5/2021	Selenium	ug/L	4.74	0.25	0.1	no
POC #4	12/8/2021	Selenium	ug/L	5.87	0.25	0.1	no
POC #4	3/1/2022	Selenium	ug/L	5.46	0.25	0.1	no
POC #4	5/25/2022	Selenium	ug/L	5.14	0.25	0.1	no
POC #4	9/27/2022	Selenium	ug/L	<7.35	10	7.35	no
POC #4	11/16/2022	Selenium	ug/L	10.1	10	7.35	no
POC #4	3/27/2023	Selenium	ug/L	<7.35	10	7.35	no
POC #4	5/7/2023	Selenium	ug/L	<7.35	10	7.35	no
POC #4	8/2/2023	Selenium	ug/L	<7.35	10	7.35	no
POC #4	12/12/2023	Selenium	ug/L	<7.35	10	7.35	no
POC #4	9/10/1987	Thallium	ug/L	<100			NA
POC #4	12/1/1987	Thallium	ug/L	<100			NA
POC #4	6/28/1988	Thallium	ug/L	<100			NA
POC #4	9/11/2018	Thallium	ug/L	<0.1	0.5	0.1	NA

APPENDIX A
Groundwater Monitoring Results for POC #1, POC #2, POC #3, and POC #4
 EFRI - Pinyon Plain Mine

Well	Date	Parameter	Units	Result	PQL	MDL	Extreme Outlier?
POC #4	9/11/2019	Thallium	ug/L	<0.1	0.5	0.1	NA
POC #4	3/17/2021	Thallium	ug/L	<0.1	0.5	0.1	NA
POC #4	5/25/2021	Thallium	ug/L	<0.1	0.5	0.1	NA
POC #4	8/5/2021	Thallium	ug/L	<0.1	0.5	0.1	NA
POC #4	12/8/2021	Thallium	ug/L	<0.1	0.5	0.1	NA
POC #4	3/1/2022	Thallium	ug/L	<0.1	0.5	0.1	NA
POC #4	5/25/2022	Thallium	ug/L	<0.1	0.5	0.1	NA
POC #4	11/16/2022	Thallium	ug/L	<0.121	2	0.121	NA
POC #4	3/27/2023	Thallium	ug/L	<0.121	2	0.121	NA
POC #4	5/7/2023	Thallium	ug/L	<0.121	2	0.121	NA
POC #4	8/2/2023	Thallium	ug/L	<0.121	2	0.121	NA
POC #4	12/12/2023	Thallium	ug/L	<0.121	2	0.121	NA

Notes:

mg/L = milligrams per liter

ug/L = micrograms per liter

s.u. = standard units

pCi/L = picocuries per liter

PQL = practical quantitation limit

MDL = minimum detection limit

NA = not applicable

POC #4 extreme outlier results consider the full dataset

Appendix B

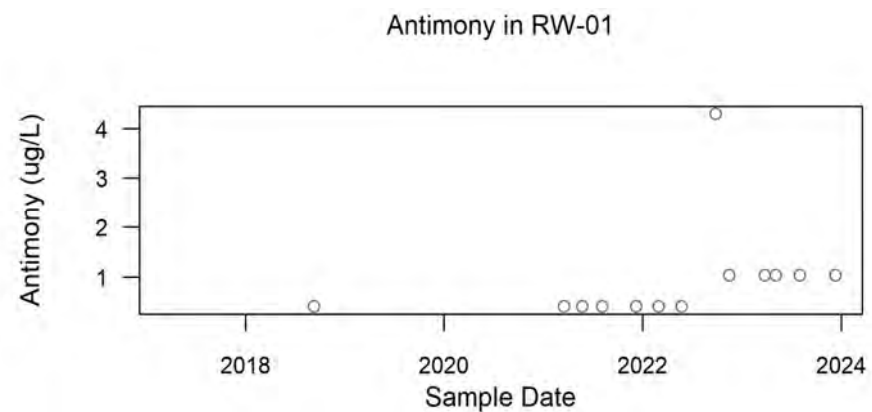
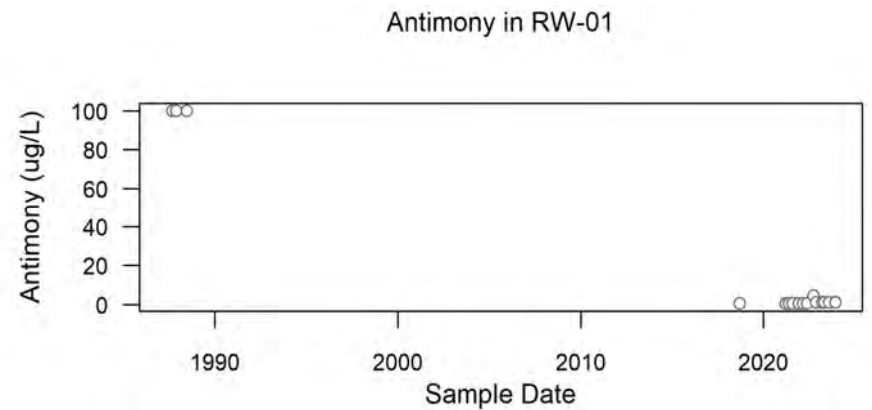
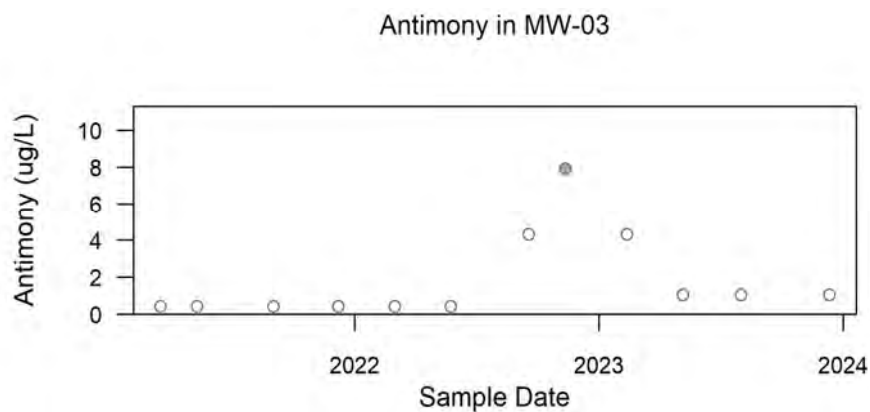
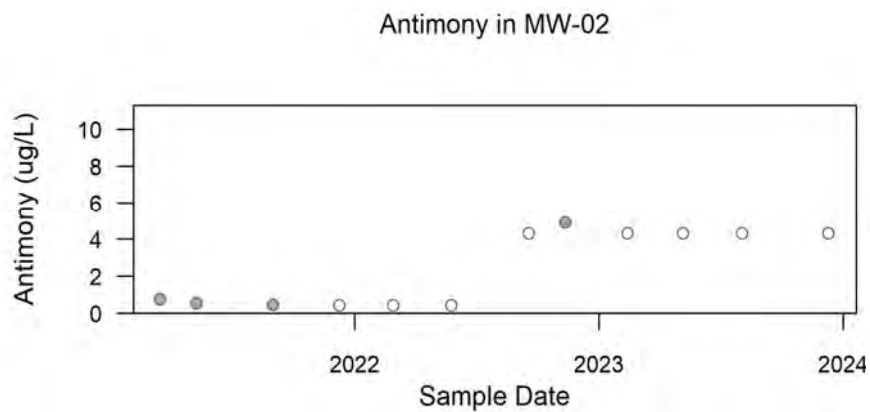
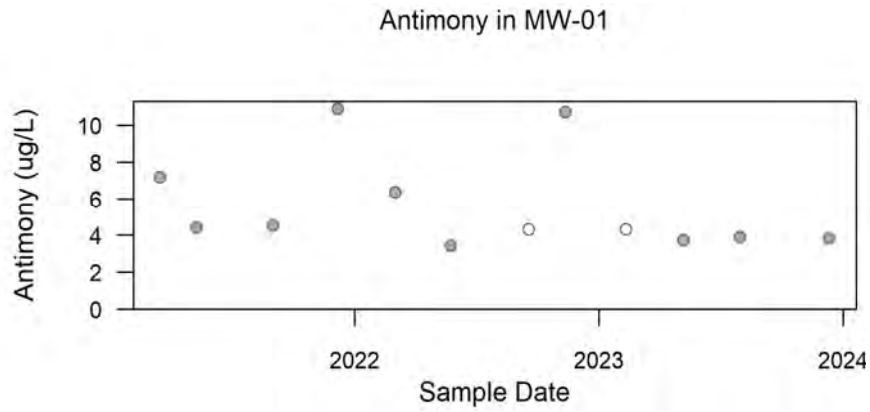


Figure B1
 Timeseries: Antimony
 Pinyon Plain Mine – POC #1, POC #2, POC #3,
 POC #4 (all data), POC #4 (recent data)

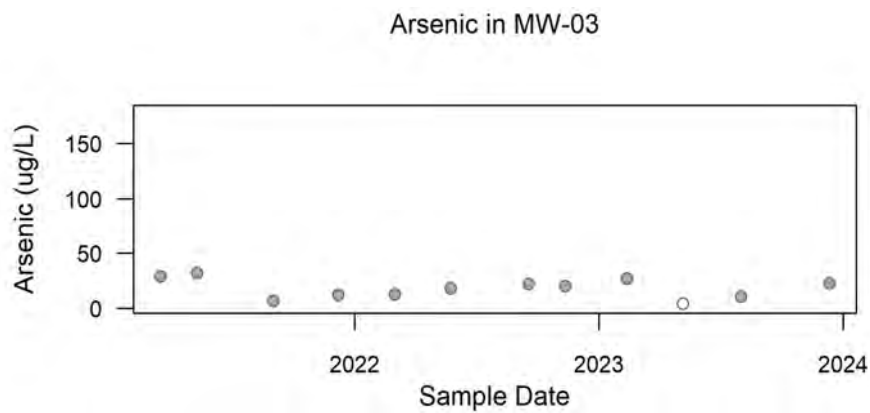
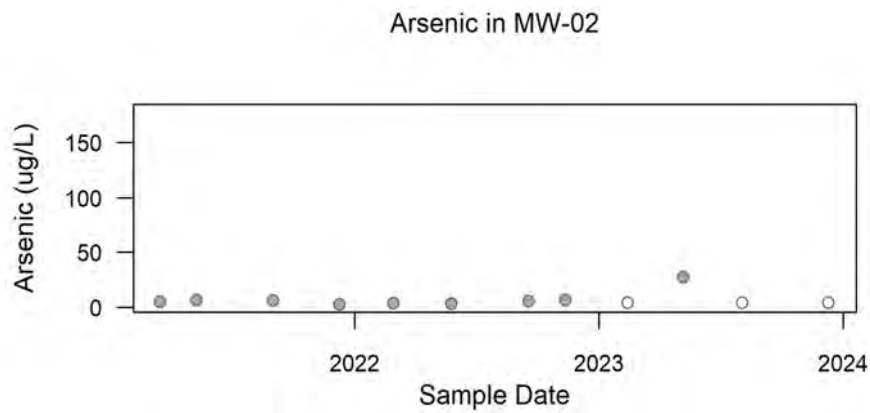
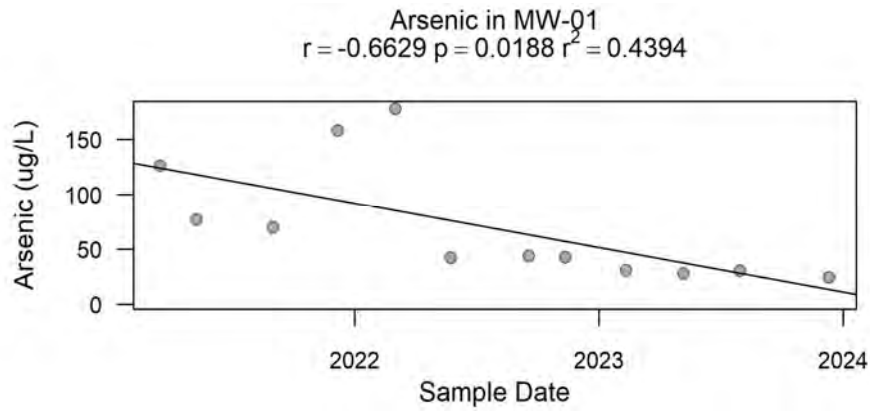


Figure B2
 Timeseries: Arsenic
 Pinyon Plain Mine – POC #1, POC #2, POC #3

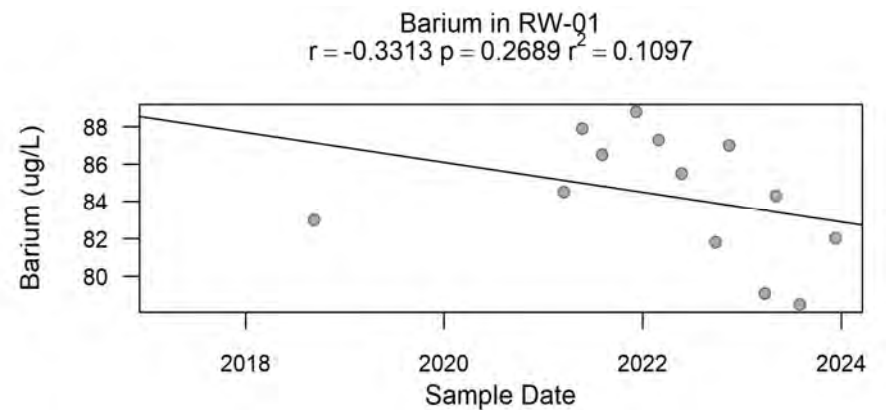
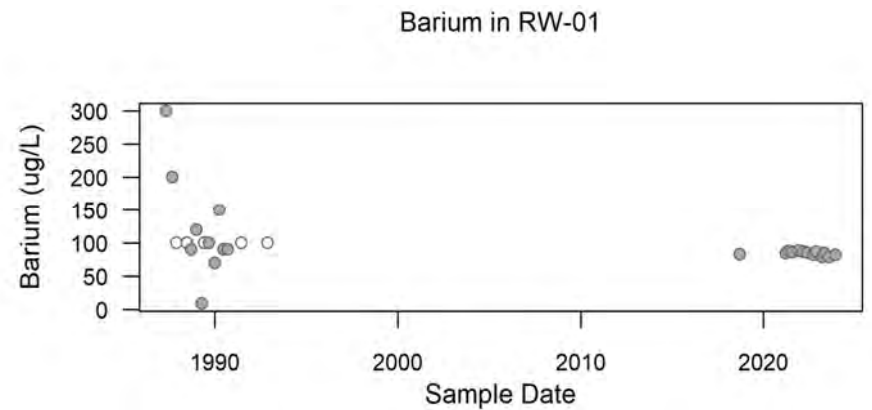
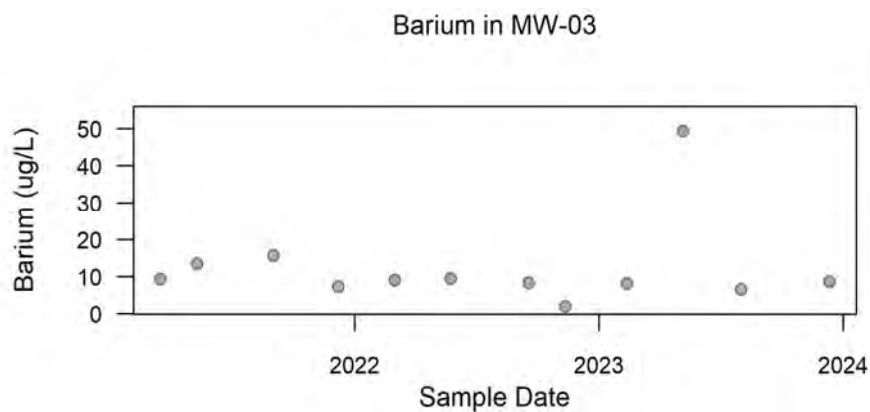
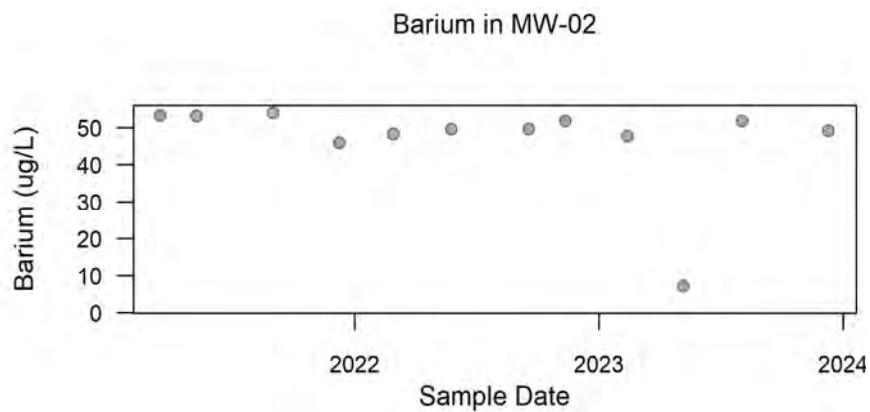
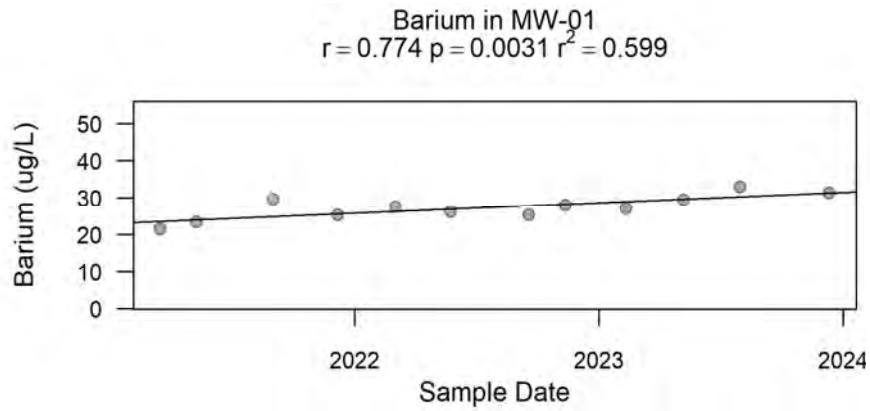


Figure B3
 Timeseries: Barium
 Pinyon Plain Mine – POC #1, POC #2, POC #3,
 POC #4 (all data), POC #4 (recent data)

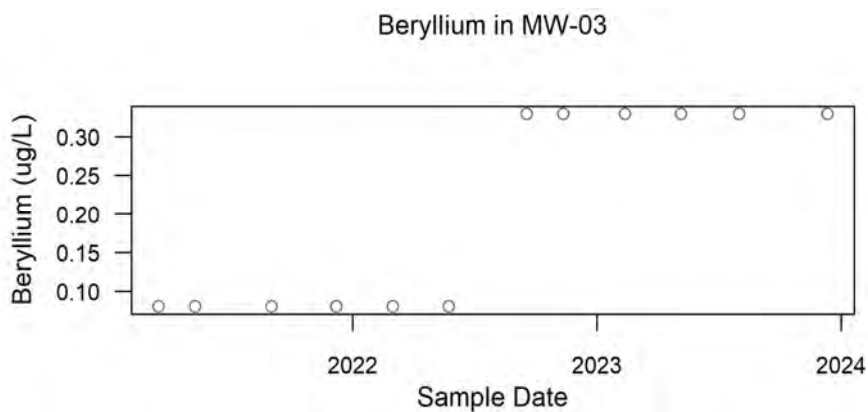
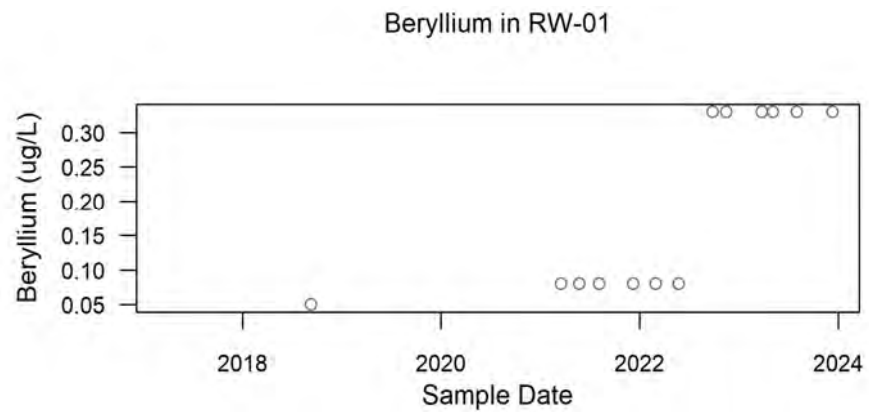
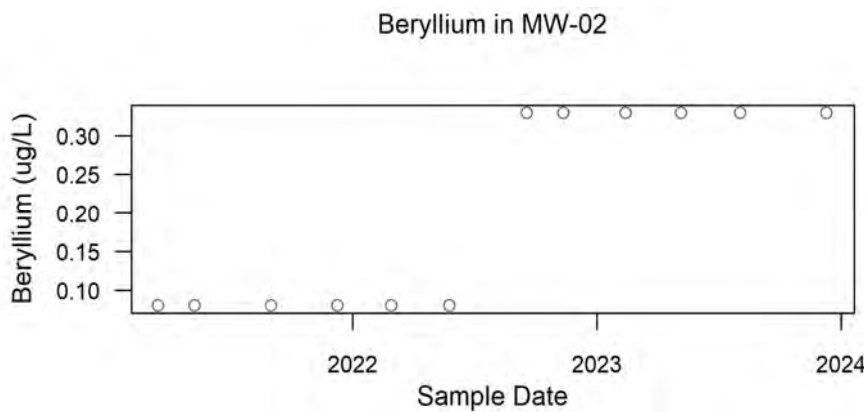
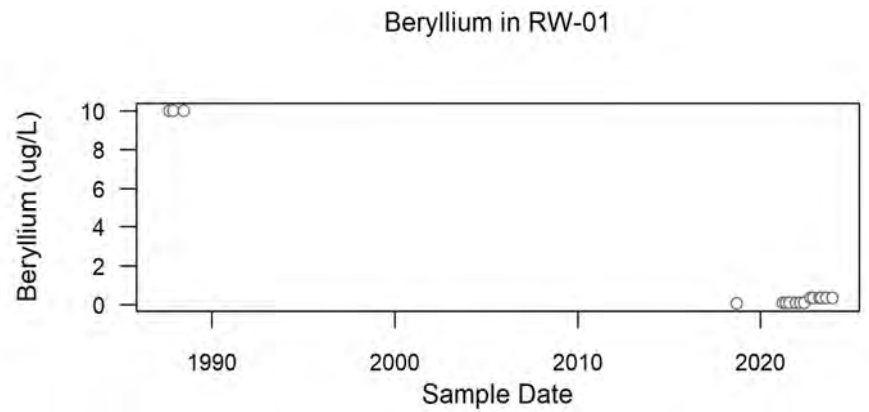
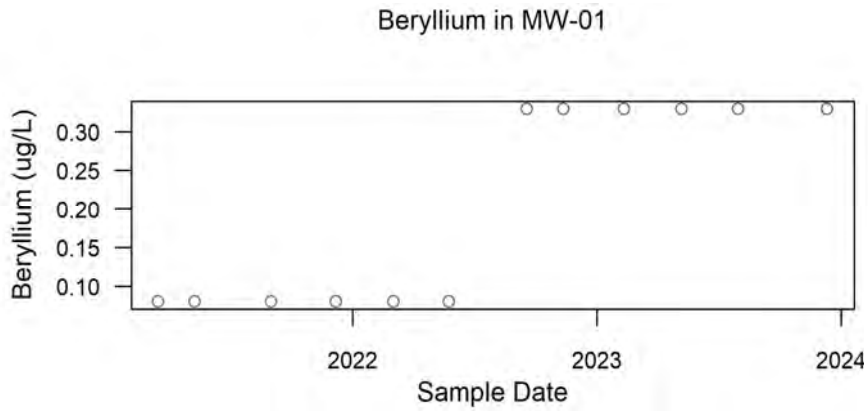


Figure B4
 Timeseries: Beryllium
 Pinyon Plain Mine – POC #1, POC #2, POC #3,
 POC #4 (all data), POC #4 (recent data)



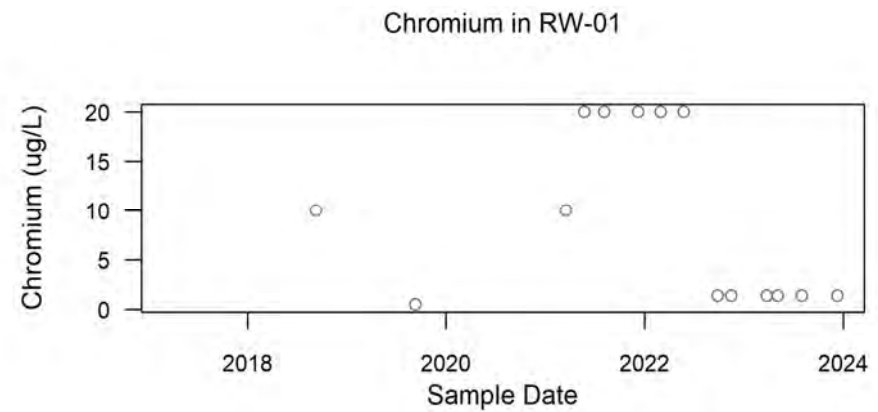
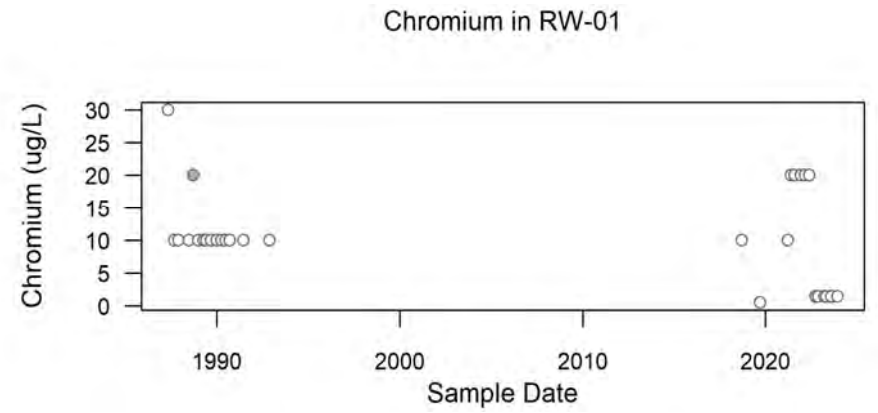
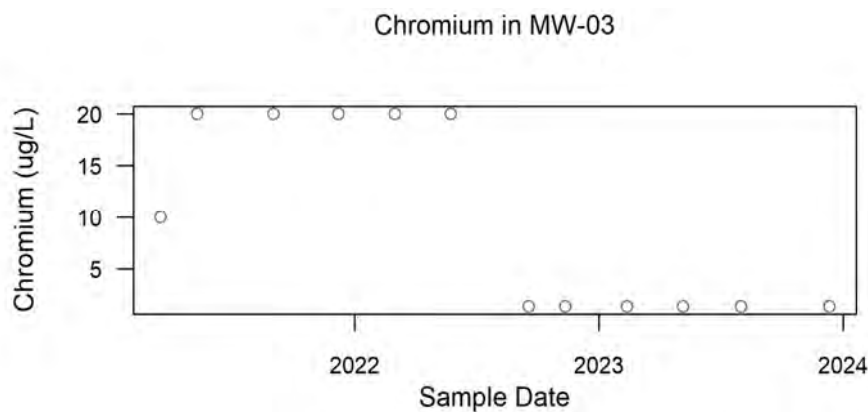
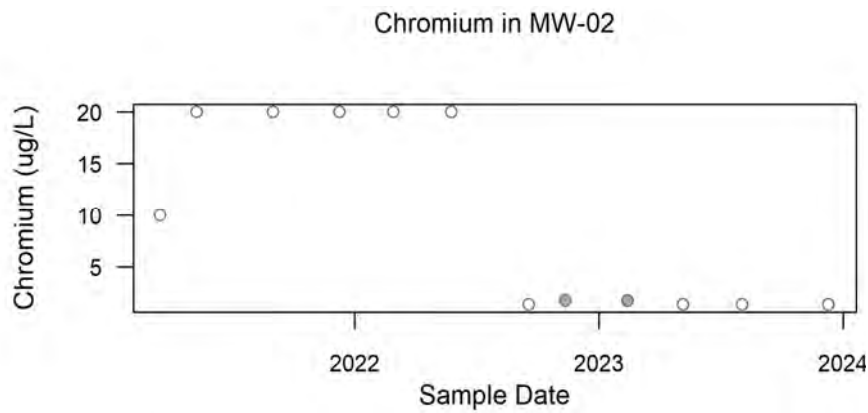
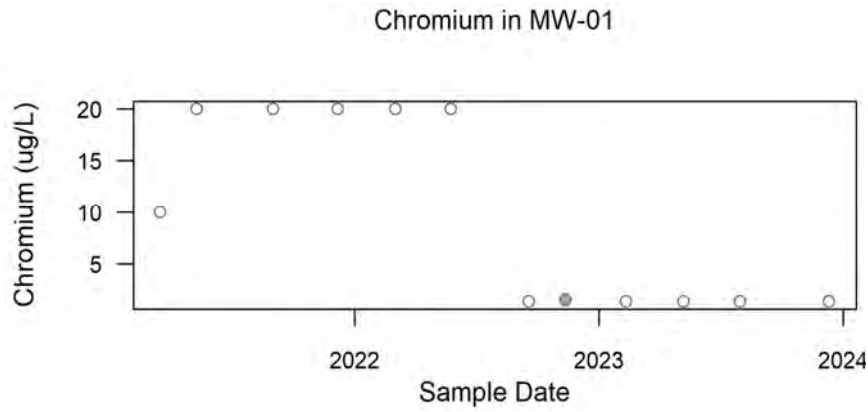


Figure B6
 Timeseries: Chromium
 Pinyon Plain Mine – POC #1, POC #2, POC #3,
 POC #4 (all data), POC #4 (recent data)



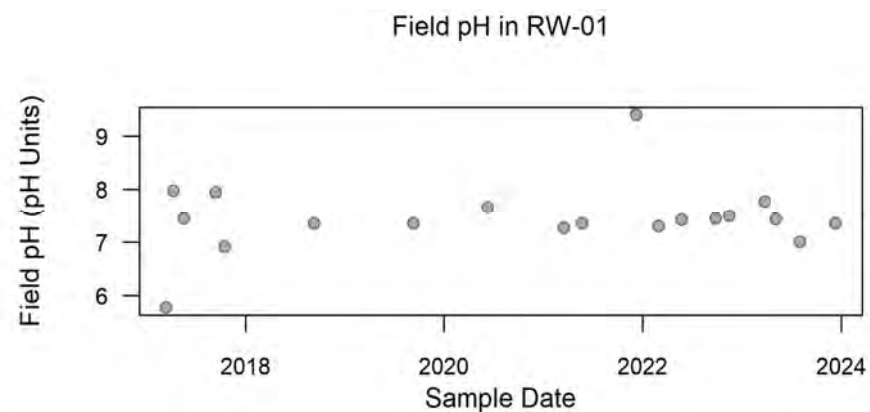
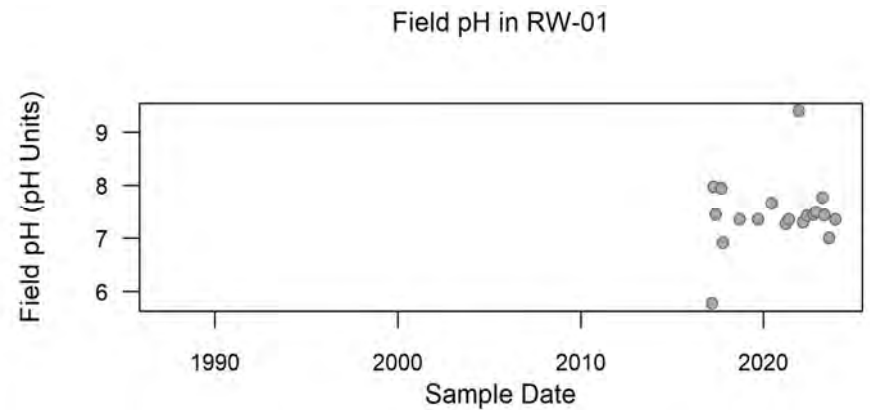
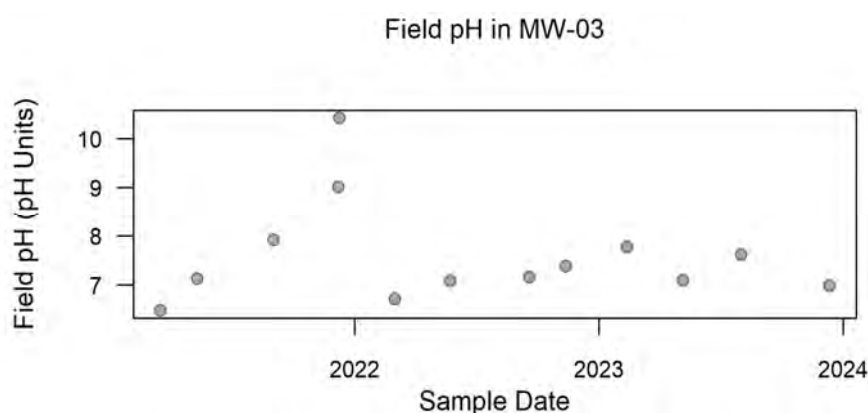
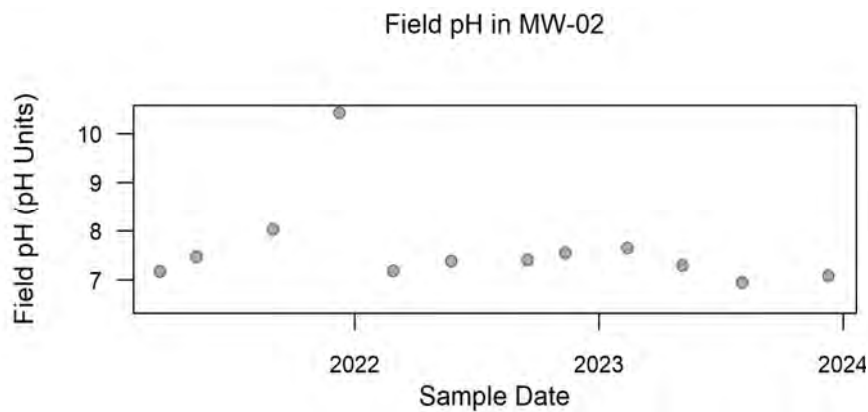
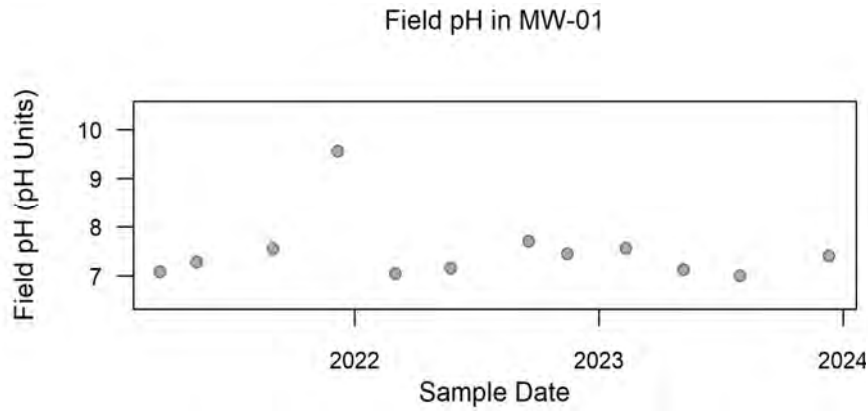
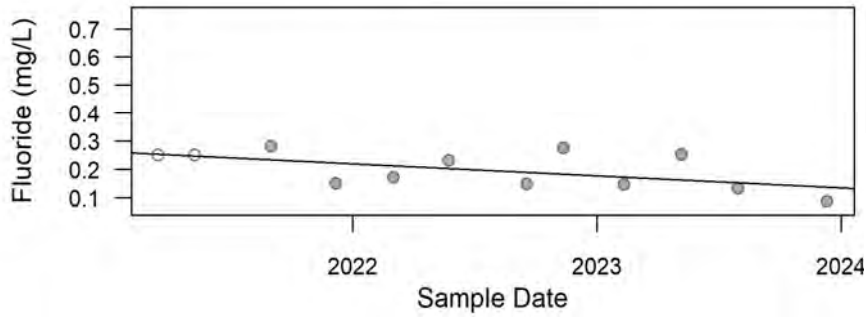


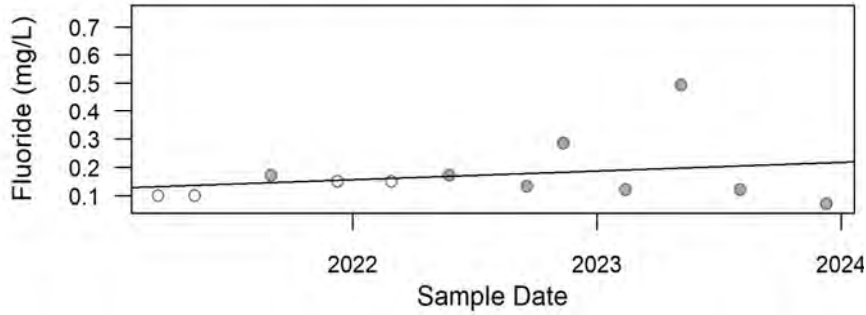
Figure B7
 Timeseries: Field pH
 Pinyon Plain Mine – POC #1, POC #2, POC #3,
 POC #4 (all data), POC #4 (recent data)



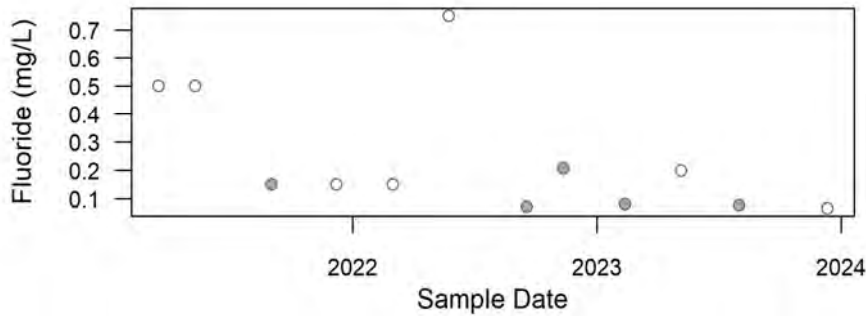
Fluoride in MW-01
 $r = -0.5727$ $p = 0.0516$ $r^2 = 0.328$



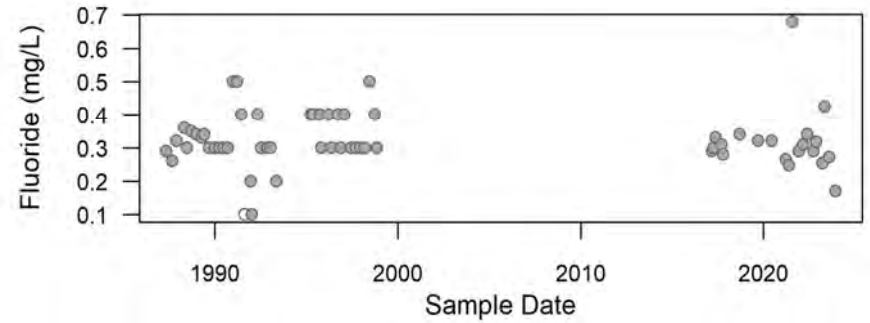
Fluoride in MW-02
 $r = 0.2402$ $p = 0.4521$ $r^2 = 0.0577$



Fluoride in MW-03



Fluoride in RW-01



Fluoride in RW-01

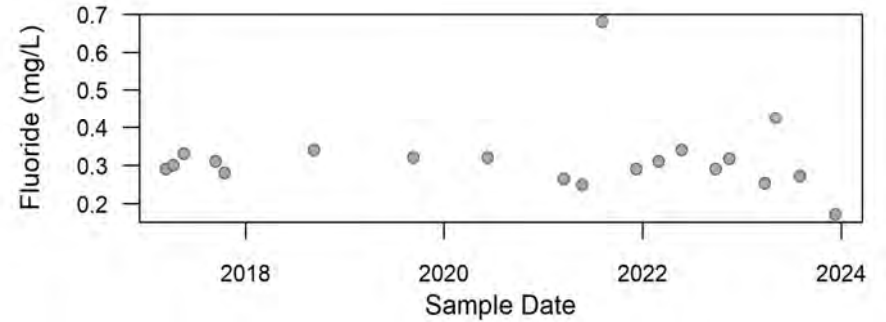


Figure B8
 Timeseries: Fluoride
 Pinyon Plain Mine – POC #1, POC #2, POC #3,
 POC #4 (all data), POC #4 (recent data)

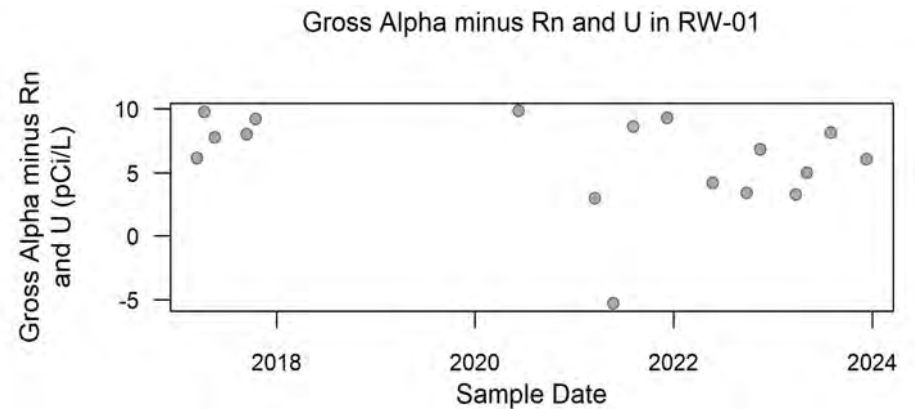
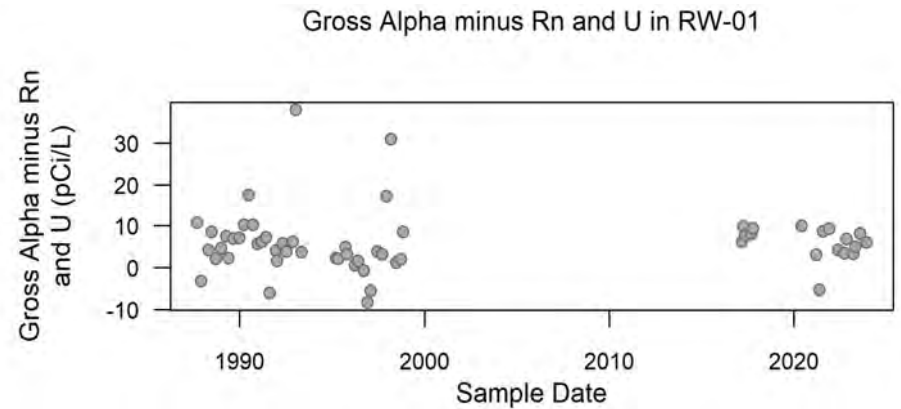
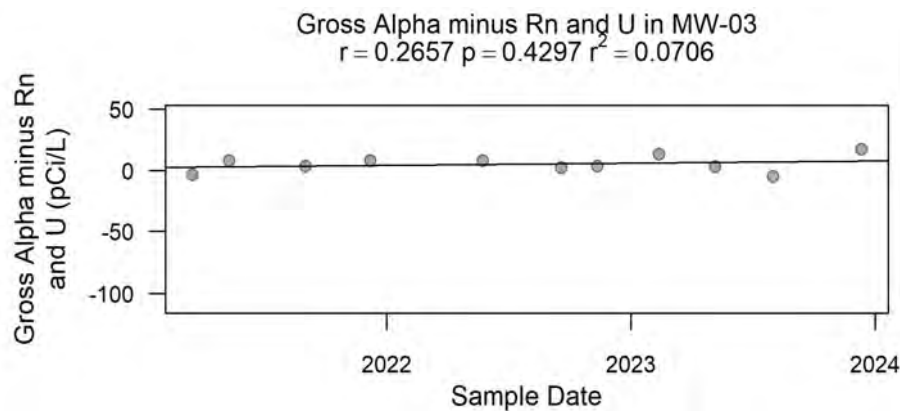
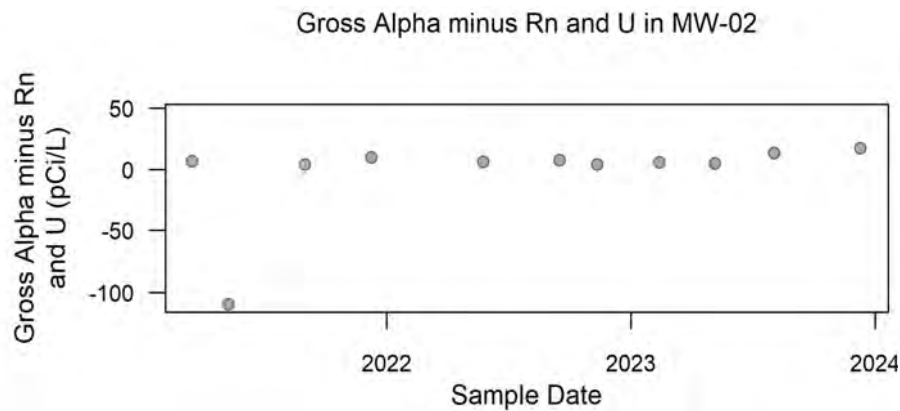
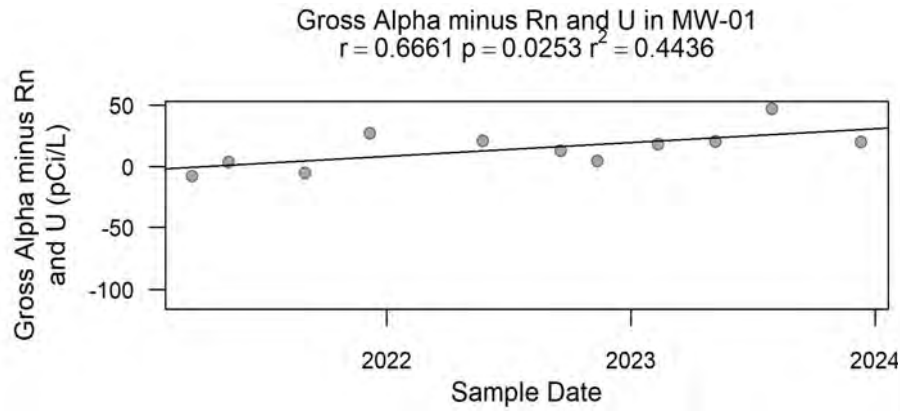
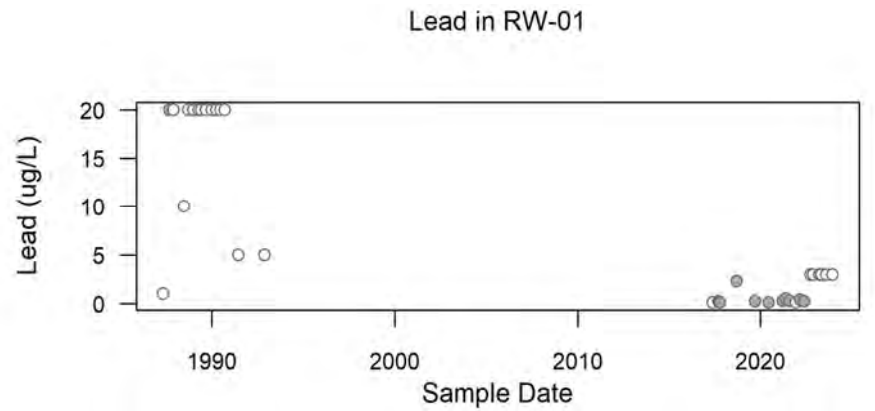
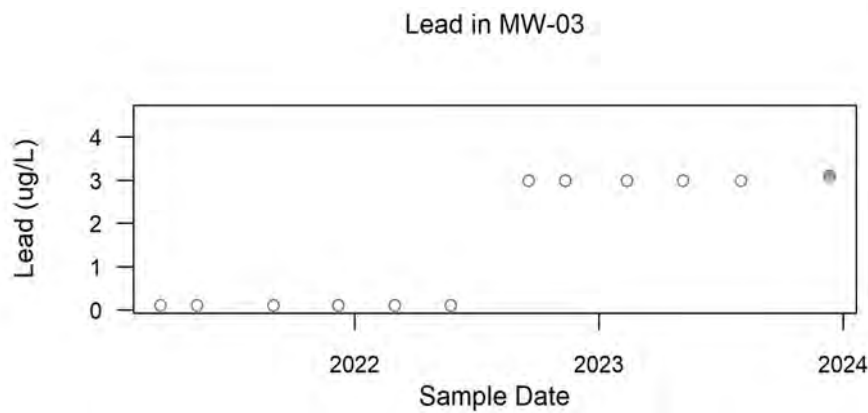
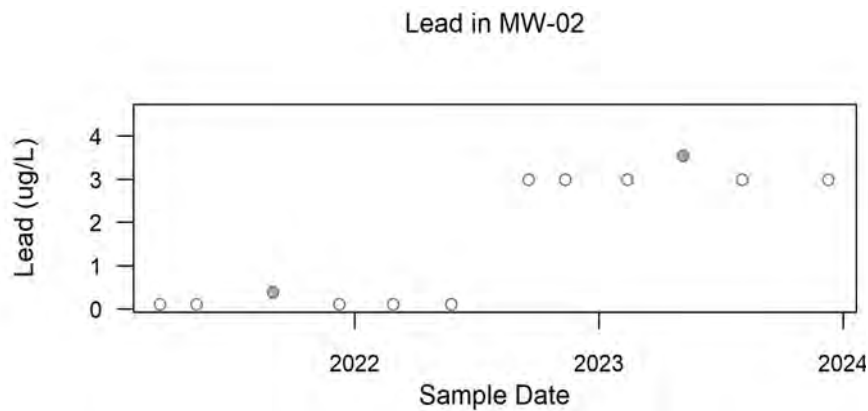
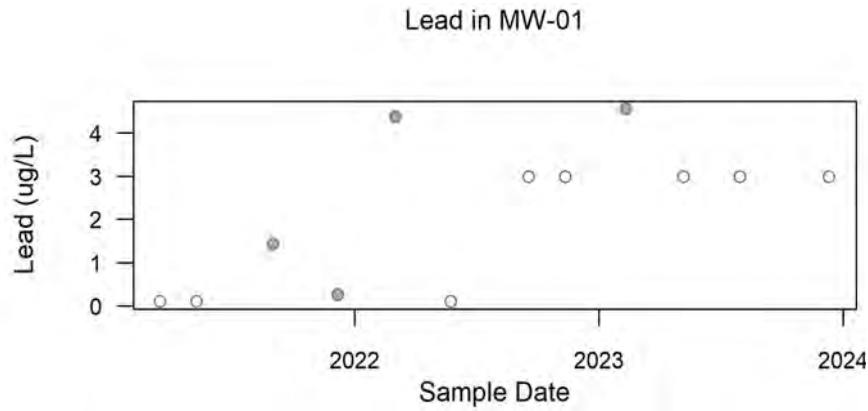


Figure B9
 Timeseries: Gross Alpha minus Rn and U
 Pinyon Plain Mine – POC #1, POC #2, POC #3,
 POC #4 (all data), POC #4 (recent data)



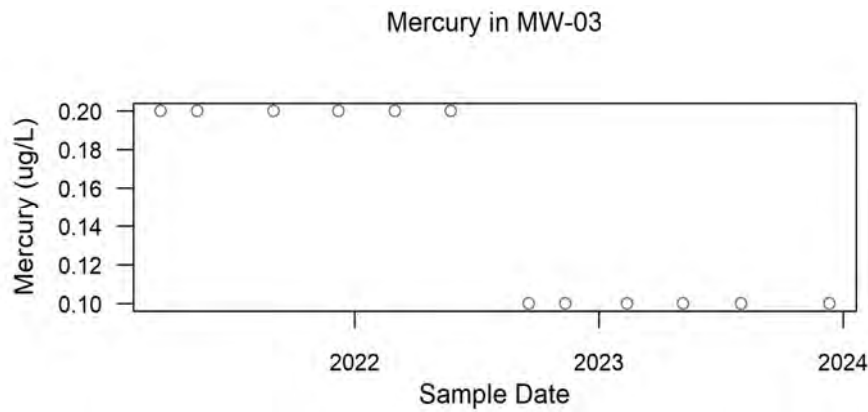
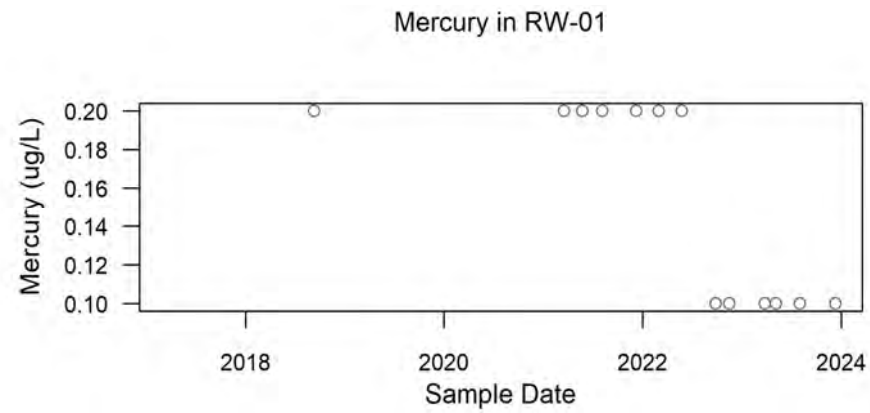
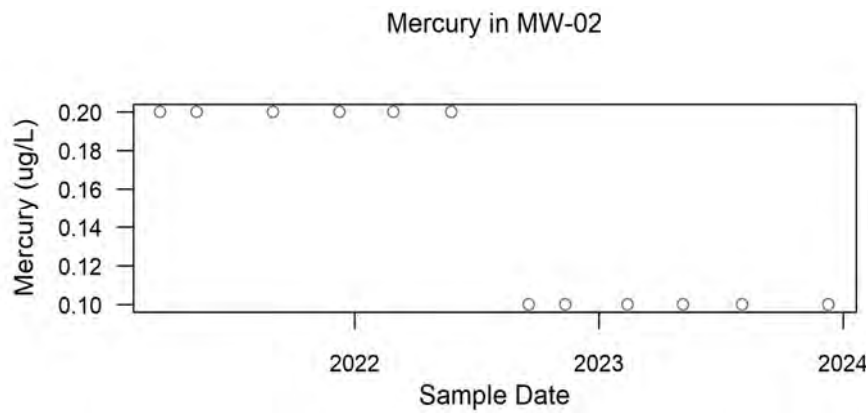
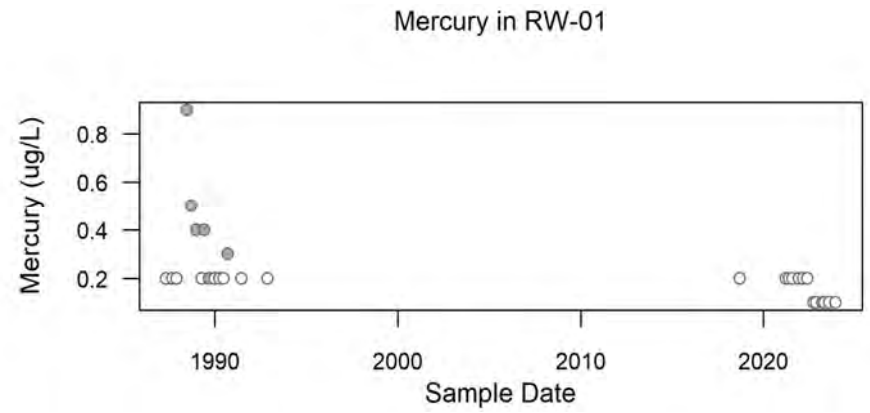
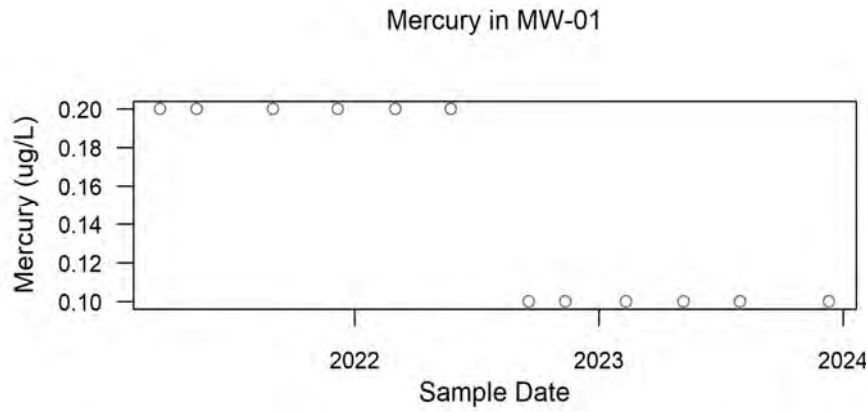
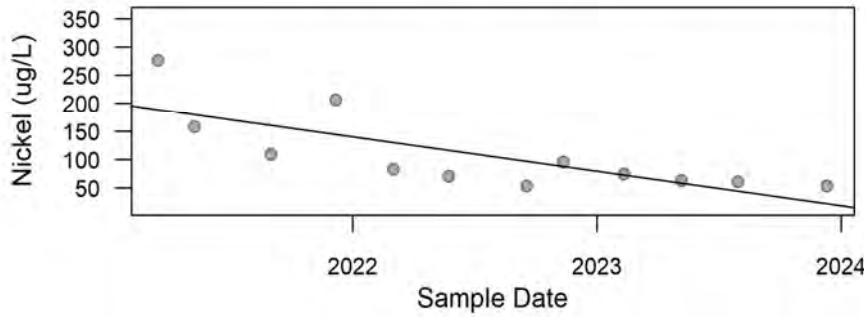


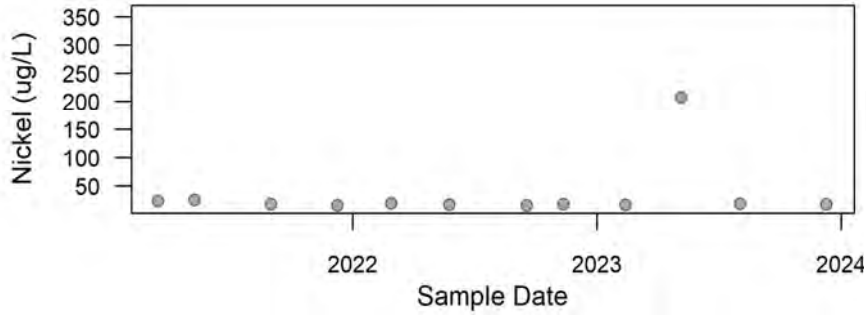
Figure B11
 Timeseries: Mercury
 Pinyon Plain Mine – POC #1, POC #2, POC #3,
 POC #4 (all data), POC #4 (recent data)



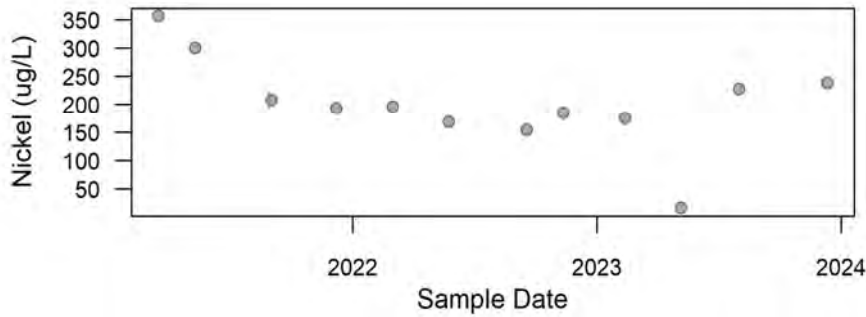
Nickel in MW-01
 $r = -0.7673$ $p = 0.0036$ $r^2 = 0.5887$



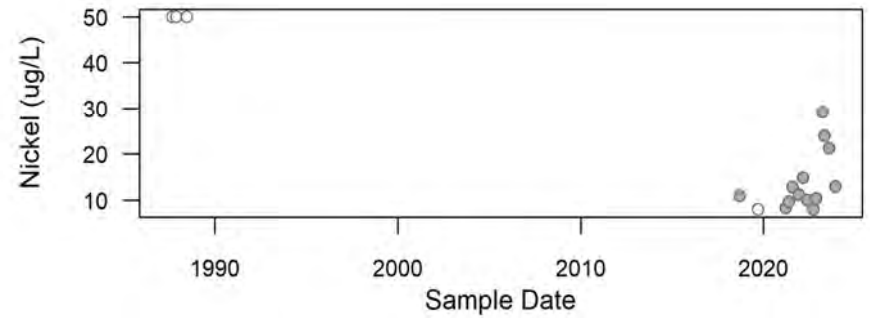
Nickel in MW-02



Nickel in MW-03



Nickel in RW-01



Nickel in RW-01
 $r = 0.5589$ $p = 0.0378$ $r^2 = 0.3123$

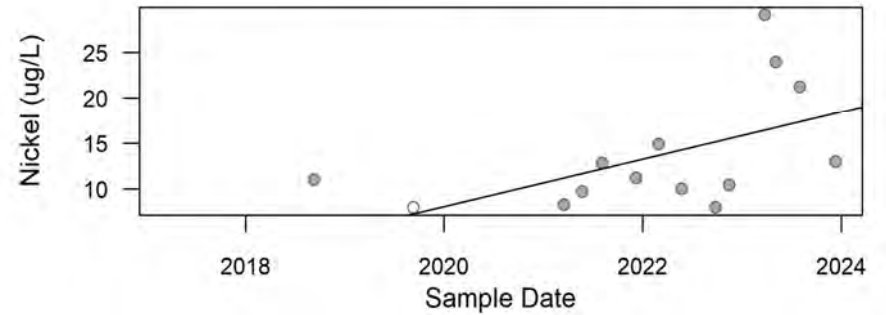
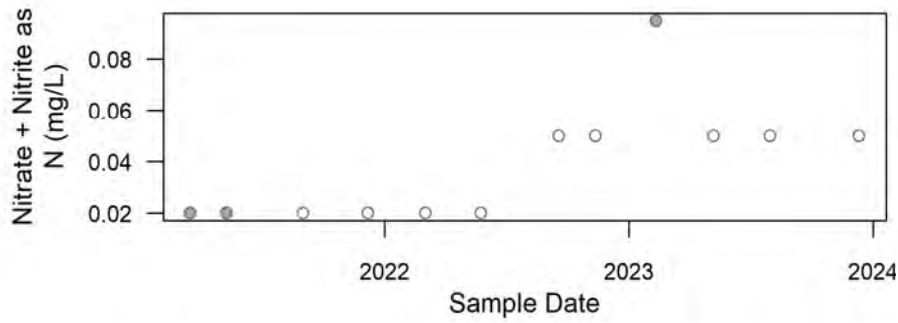
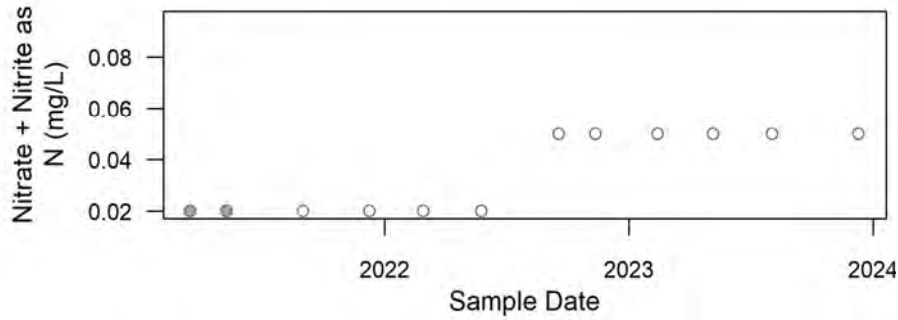


Figure B12
 Timeseries: Nickel
 Pinyon Plain Mine – POC #1, POC #2, POC #3,
 POC #4 (all data), POC #4 (recent data)

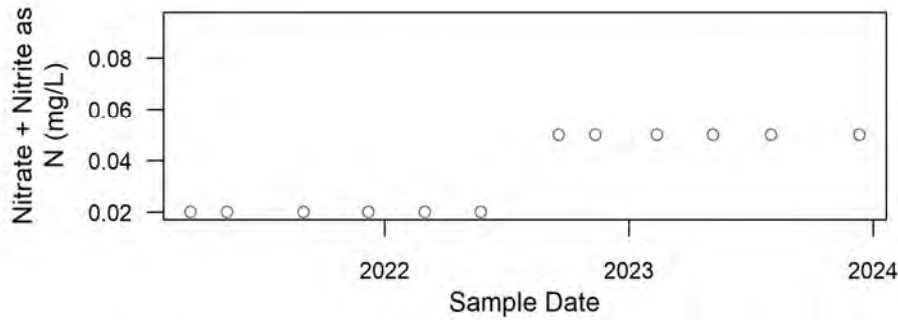
Nitrate + Nitrite as N in MW-01



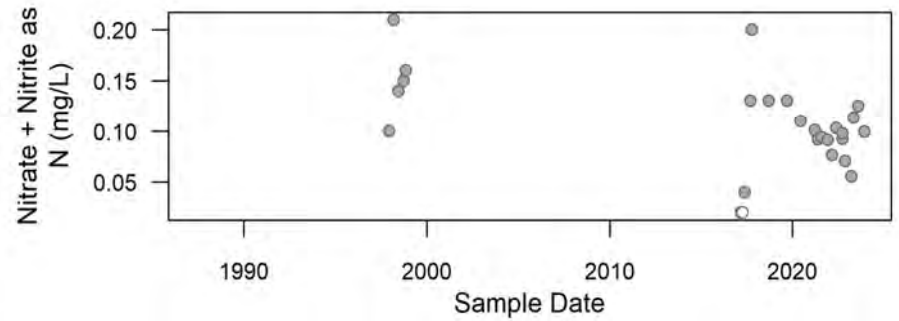
Nitrate + Nitrite as N in MW-02



Nitrate + Nitrite as N in MW-03



Nitrate + Nitrite as N in RW-01



Nitrate + Nitrite as N in RW-01

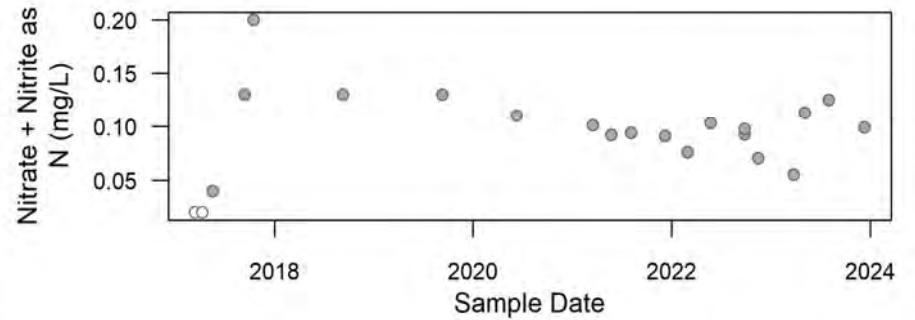


Figure B13
Timeseries: Nitrate + Nitrite as N
Pinyon Plain Mine – POC #1, POC #2, POC #3,
POC #4 (all data), POC #4 (recent data)

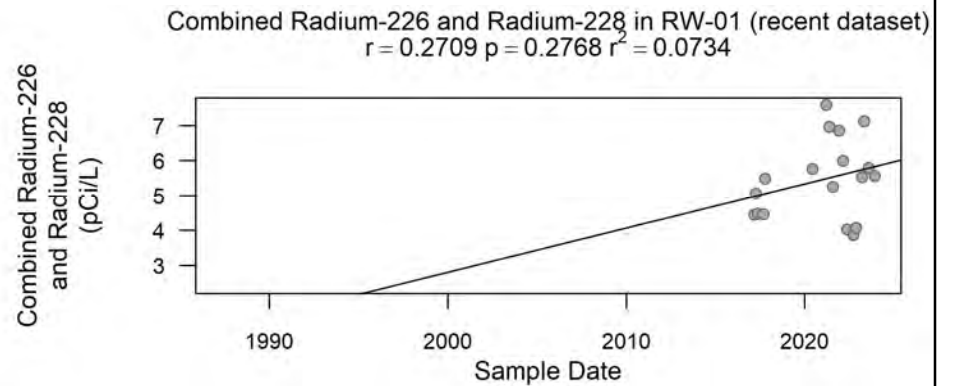
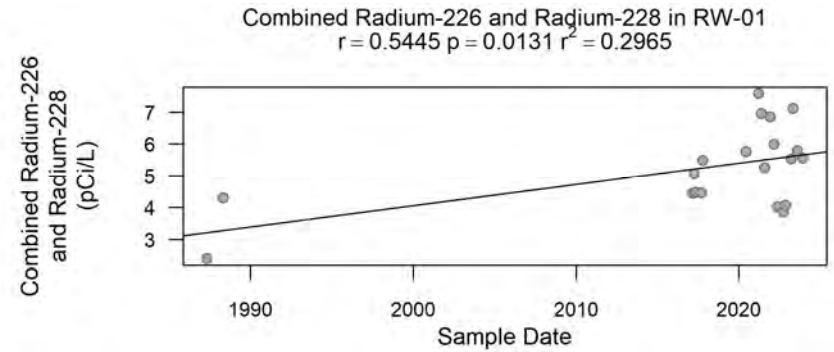
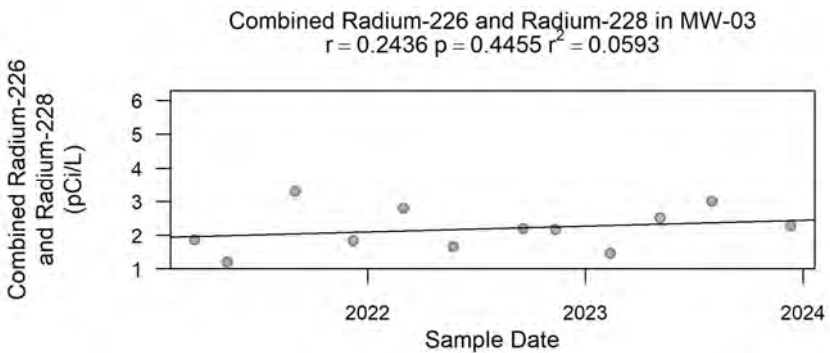
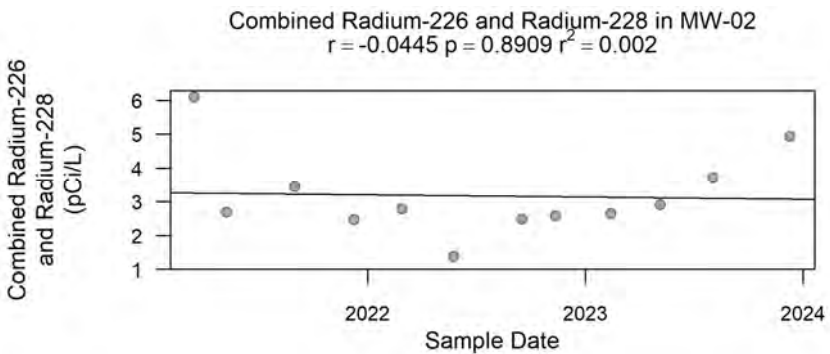
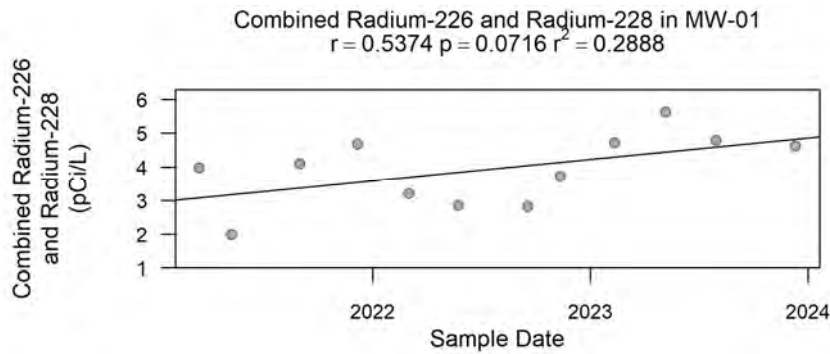


Figure B14
 Timeseries: Combined Radium-226 & Radium-228
 Pinyon Plain Mine – POC #1, POC #2, POC #3,
 POC #4 (all data), POC #4 (recent data)

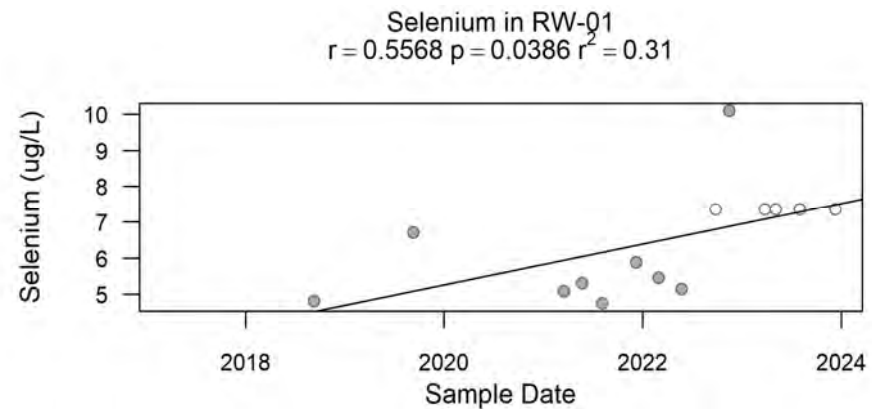
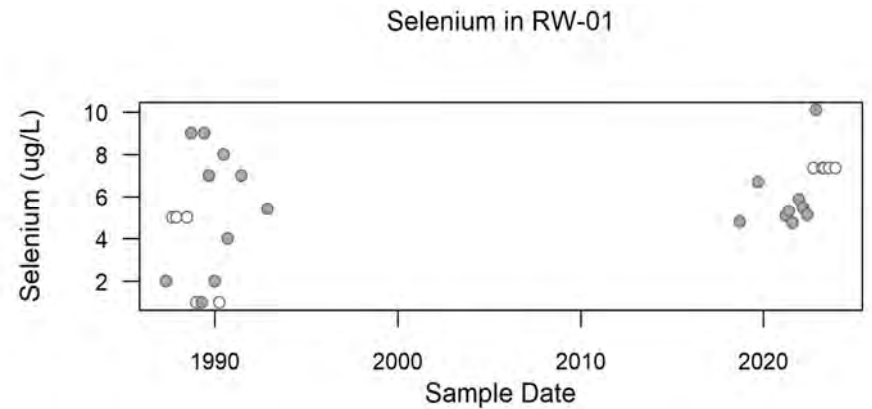
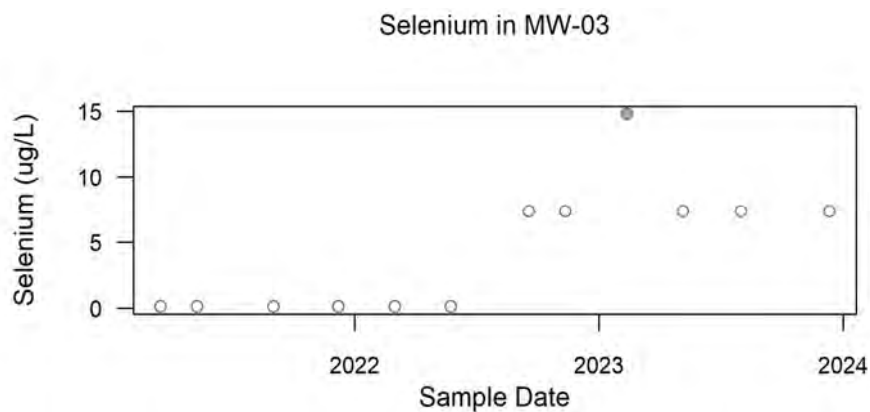
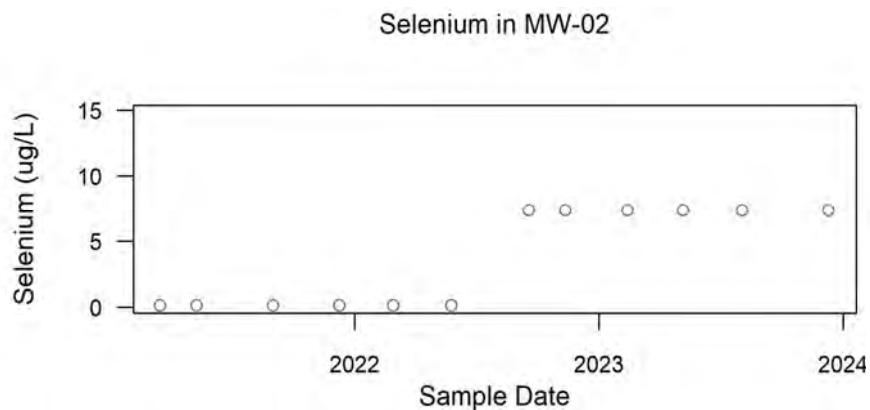
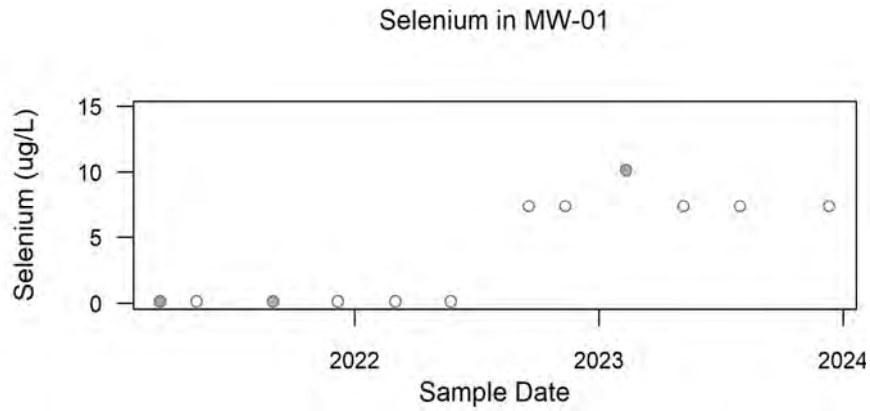


Figure B15
 Timeseries: Selenium
 Pinyon Plain Mine – POC #1, POC #2, POC #3,
 POC #4 (all data), POC #4 (recent data)

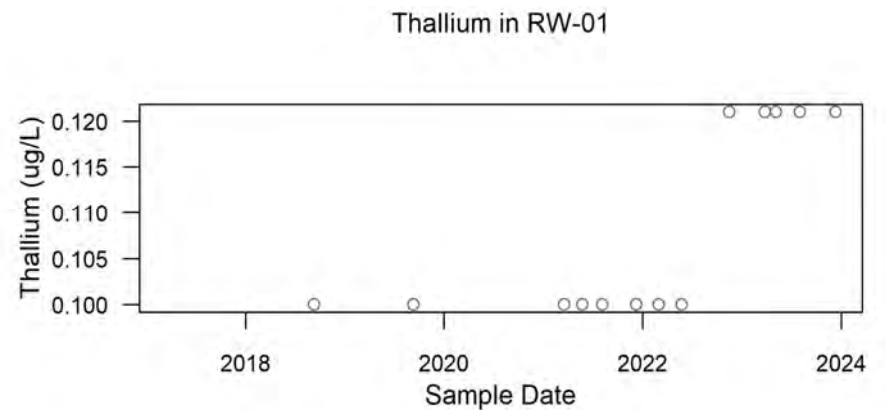
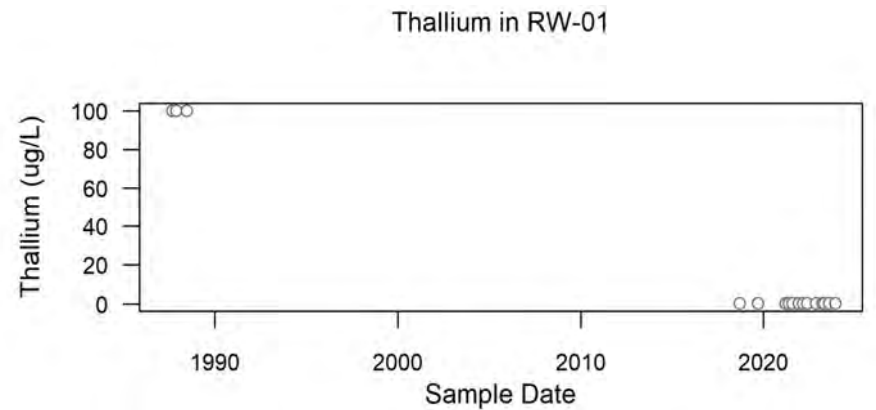
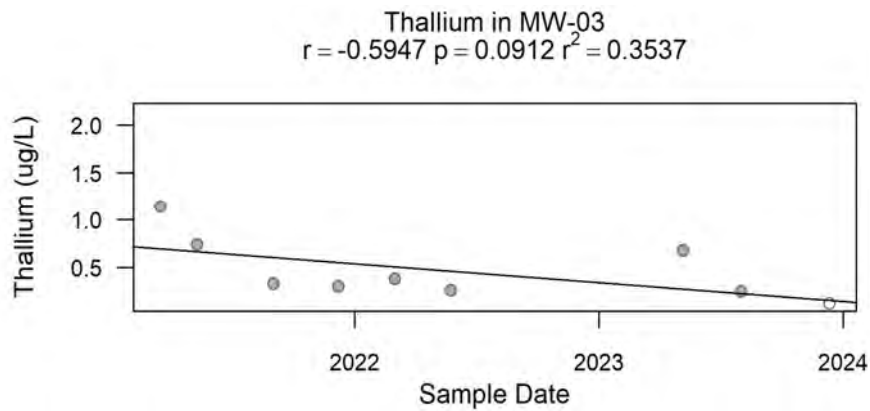
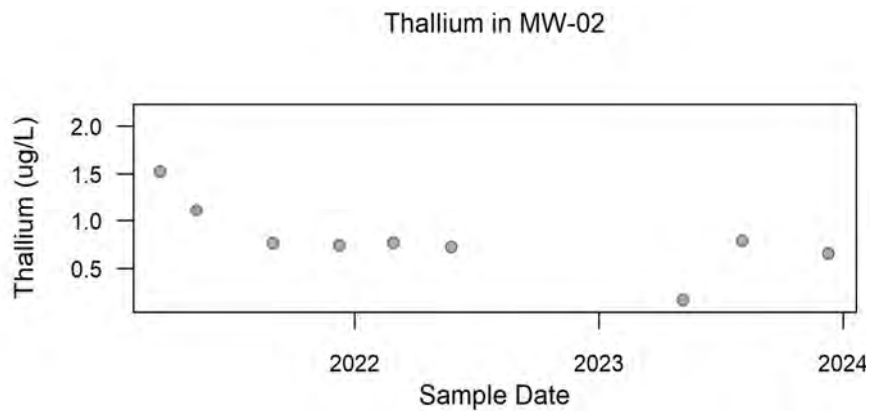
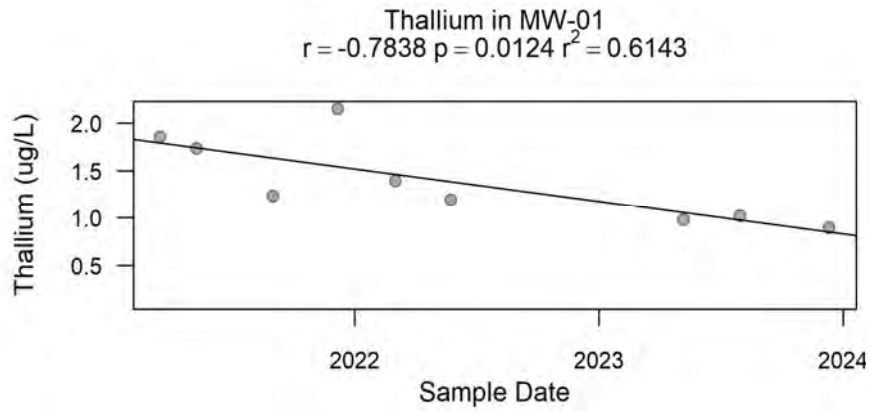
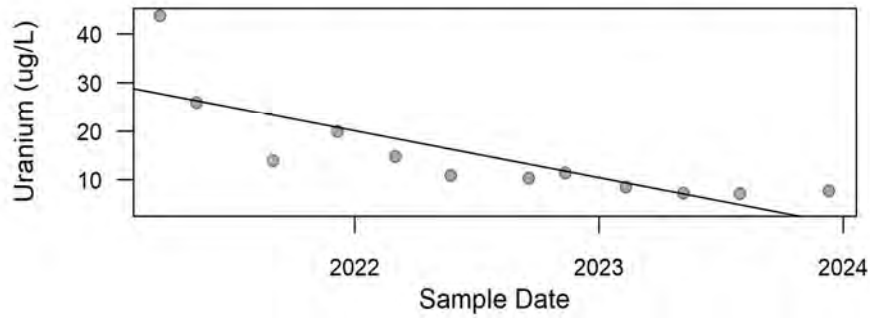
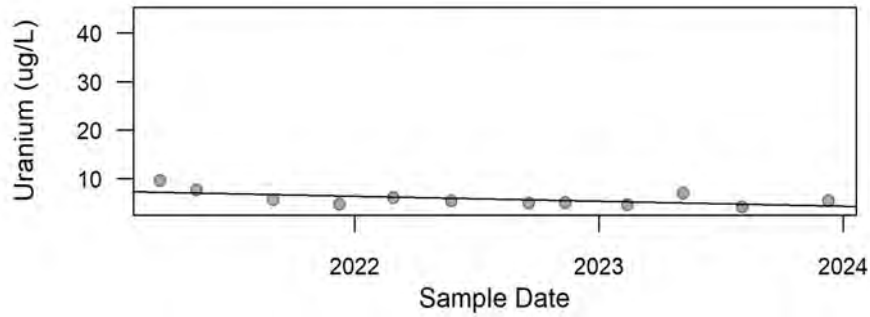


Figure B16
 Timeseries: Thallium
 Pinyon Plain Mine – POC #1, POC #2, POC #3,
 POC #4 (all data), POC #4 (recent data)

Uranium in MW-01
 $r = -0.8014$ $p = 0.0017$ $r^2 = 0.6423$



Uranium in MW-02
 $r = -0.592$ $p = 0.0426$ $r^2 = 0.3505$



Uranium in MW-03

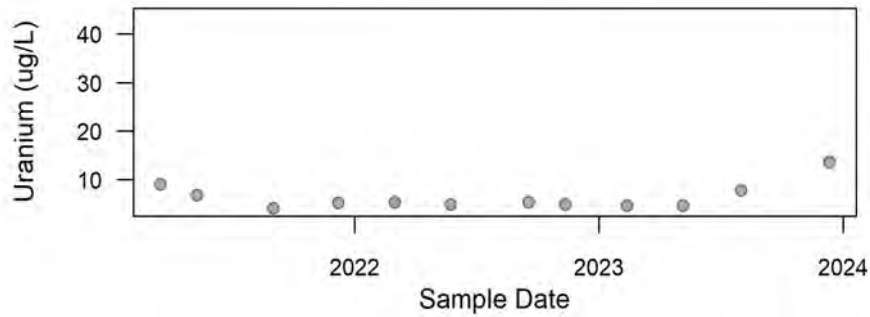


Figure B17
Timeseries: Uranium
Pinyon Plain Mine – POC #1, POC #2, POC #3