Form C-141
Page 6

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2229363998
District RP	
Facility ID	E-21-22S-28E
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: ***Each of the following items must be included in the closure report.***

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Arsenio Jones Title: Regulatory Environmental and Safety Specialist

Signature: Date: 11/30/2022

email: arsenio.jones@matadorresources.com Telephone: 575-361-4333

OCD Only

Received by: Robert Hamlet Date: 3/30/2023

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Robert Hamlet Date: 3/30/2023

Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	nAPP2229363998
District RP	
Facility ID	E-21-22S-28E 0N 0E
Application ID	

Release Notification

Responsible Party

Responsible Party: Matador Production Company	OGRID: 228937
Contact Name: Arsenio T. Jones	Contact Telephone: 575-361-4333
Contact email: arsenio.jones@matadorresources.com	Incident # *(assigned by OCD):* nAPP2229363998
Contact mailing address: One Lincoln Centre Dallas, TX 75240	

Location of Release Source

Latitude 32.38478 Longitude -104.10065 (location of source)
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Barry Miller Booster Station	Site Type: Production Battery
Date Release Discovered: 10/21/2022	API# *(if applicable)E-21_22S-28E ON OE*

Unit Letter	Section	Township	Range	County
E	21	22S	28E	Eddy

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (*Name:* _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 7	Volume Recovered (bbls) 5
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☒ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release: Seal on charge pump failed releasing fluid inside containment.		

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2288482285
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Facility ID	L-21-20S-35E ON OE
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release? The Release was > 50bbl
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Notification was provided to the NMOCD on 10/20/22 by Arsenio Jones of Matador (online).	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

☒ The source of the release has been stopped.
☒ The impacted area has been secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Arsenio T. Jones Title: Regulatory, Environmental and Safety Specialist

Signature: _____ Date: 10/21/22

email: arsenio.jones@matadorresources.com Telephone: 575-361-4333

OCD Only

Received by: Jocelyn Harimon Date: 10/21/2022

Incident ID	nAPP2229363998
District RP	
Facility ID	E-21-22S-28E
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	53 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: ***Each of the following items must be included in the report.***

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2229363998
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Facility ID	E-21-22S-28E
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Printed Name: Arsenio Jones Title: Regulatory Environmental and Safety Specialist

Signature: Date: 11/30/2022

email: arsenio.jones@matadorresources.com Telephone: 575-361-4333

OCD Only

Received by: Date:

Incident ID	nAPP2229363998
District RP	
Facility ID	E-21-22S-28E
Application ID	

Remediation Plan

Remediation Plan Checklist: ***Each of the following items must be included in the plan.***

☒ Detailed description of proposed remediation technique
☒ Scaled sitemap with GPS coordinates showing delineation points
☒ Estimated volume of material to be remediated
☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: ***Each of the following items must be confirmed as part of any request for deferral of remediation.***

☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☐ Extents of contamination must be fully delineated.

☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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Printed Name: Arsenio Jones Title: Regulatory Environmental and Safety Specialist

Signature: Date: 11/30/2022

email: arsenio.jones@matadorresources.com Telephone: 575-361-4333

OCD Only

Received by: Date:

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2229363998
District RP	
Facility ID	E-21-22S-28E
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Closure

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Closure Report Attachment Checklist: ***Each of the following items must be included in the closure report.***

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

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Printed Name: Arsenio Jones Title: Regulatory Environmental and Safety Specialist

Signature: Date: 11/30/2022

email: arsenio.jones@matadorresources.com Telephone: 575-361-4333

OCD Only

Received by: Date:

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Date:

Printed Name: Title:

Closure Report

Barry Miller Booster Station
Eddy County, New Mexico
Incident #nAPP2229363998
E-21-22S-28E

Prepared For:

Matador Production Company
One Lincoln Center
Dallas, TX 75240

Prepared By:

R&R Environmental
1505 W. Bullock Avenue
Artesia, NM 88210

ENVIRONMENTAL REMEDIATION & RECLAMATION SERVICES

November 3, 2022

Mike Bratcher
NMOCD
506 W. Texas
Artesia, NM 88210

Subject: **Closure Report**
Barry Miller Booster Station
Eddy County, NM
E-21-22S-28E

Dear Mr. Bratcher,

Matador Production Company contracted R&R Environmental to perform soil assessment and remediation services at the above referenced location. The incident description, soil sampling results, remedial actions and closure request is presented herein.

Site Information

The Barry Miller Booster Station is located approximately 7 miles southeast of Carlsbad New Mexico. The legal description for the site of release is Unit Letter E, Section 21, Township 22 South and Range 28 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.38478 and -104.10065. A Site Location Map is presented in Appendix II.

According to the soil survey provided by the United States Department of Agriculture National resources Conservation Services, the soil in this area is made up of Reeves-Gypsum land complex, with 0 to 3 percent slopes, and a depth to restrictive feature of more than 80 inches. The referred soil data is presented in Appendix III. Per the New Mexico Bureau of Geology and Mineral Resources, the local geology consists of Piedmont Alluvial Deposits, Holocene to Lower Pleistocene in age, and comprised of alluvial veneers of the piedmont slope, and alluvial fans. The soil characterization for this site contains a certain level of natural salinity (2.0 to 8.0 mmhos/cm). Drainage courses in this area are typically well drained.

Ground Water and Site Characterization

The New Mexico Office of the State Engineer Database indicates the nearest reported depth to groundwater is 53 feet below ground surface (bgs). See Appendix III for the referenced groundwater depth. Further research of the Bureau of Land Management Karst data indicates that this site is located within a medium range potential Karst area.

Incident Description

On October 21, 2022, a seal on a charge pump failed releasing fluid inside the containment. This caused a release of approximately 7 bbls. of produced water, of which 5 bbls. were recovered.

Site Assessment

On October 22, 2022, R&R Environmental and BDS Enterprises personnel mobilized to the site to scrape the impacted area to a depth of 6 inches. On October 24, 2022, R&R Environmental mobilized personnel to the site to conduct an initial site assessment. The impacted area was measured and mapped with a rolling wheel and sampled using a hand sieve. All soil samples were properly packaged, preserved, and transported to a Hall Laboratory Representative via chain of custody for analysis of Total Chlorides (EPA Method 300.0), TPH (EPA Method 8015M/D and EPA Method 8015D), and BTEX (EPA Method 8021B). Sample Locations are shown on the attached figure (Appendix II) and the results of our assessment sampling event are presented on the following data table.

Table I

10/24/2022 Soil Sample Laboratory Results

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Chlorides mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg	GRO + DRO + MRO combined = 100 mg/kg			100 mg/kg	600 mg/kg
S-1	10/24/2022	0.5'	ND	ND	ND	ND	ND	0	150
S-2	10/24/2022	0.5'	ND	ND	ND	ND	ND	0	3100
S-3	10/24/2022	0.5'	ND	ND	ND	ND	ND	0	1400
S-4	10/24/2022	0.5'	ND	ND	ND	ND	ND	0	1300
S-5	10/24/2022	0.5'	ND	ND	ND	ND	ND	0	1300
S-6	10/24/2022	0.5'	ND	ND	ND	ND	ND	0	2000
S-7	10/24/2022	0.5'	ND	ND	ND	ND	ND	0	2000
ND = Analyte Not Detected									

See Appendix V for the complete report of laboratory results.

Scope of Work

On October 26, 2022, based on the laboratory results from the initial site assessment and upon client authorization, R&R Environmental personnel and equipment were mobilized to the site in order to commence remediation of the impacted area. A Hydro-vac was dispatched to expose electrical lines in the area requiring excavation. Field titration data was used to guide the clean-up efforts. All soil samples were properly collected and preserved for transport to Hall Laboratories in order to confirm that NMOCD clean-up criteria had been achieved in accordance with Table 1 standards. The confirmation results from the laboratory are tabulated below. Confirmation sample locations are illustrated in Appendix II.

Table II

11/2/2022 Confirmation Sample Laboratory Results (Pad Impact)

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Chlorides mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg	GRO + DRO + MRO combined = 100 mg/kg			100 mg/kg	600 mg/kg
S2A	11/2/2022	2'	ND	ND	ND	ND	ND	-	380
S3A	11/2/2022	2	ND	ND	ND	ND	ND	-	140
S4A	11/2/2022	2'	ND	ND	ND	ND	ND	-	930
S-4B	11/11/2022	2.5'	ND	ND	ND	ND	ND	-	ND
S5A	11/2/2022	2'	ND	ND	ND	ND	ND	-	270
S6A	11/2/2022	2'	ND	ND	ND	ND	ND	-	ND
S7A	11/2/2022	2'	ND	ND	ND	ND	ND	-	ND
S8A	11/2/2022	2'	ND	ND	ND	ND	ND	-	280
S9A	11/2/2022	2'	ND	ND	ND	ND	ND	-	180
S10A	11/2/2022	2'	ND	ND	ND	ND	ND	-	160
S11A	11/2/2022	2'	ND	ND	ND	ND	ND	-	450
S12A	11/2/2022	2'	ND	ND	ND	ND	ND	-	180
S13A	11/2/2022	2'	ND	ND	ND	ND	ND	-	340
S14A	11/2/2022	2'	ND	ND	ND	ND	ND	-	ND
S15A	11/2/2022	2'	ND	ND	ND	ND	ND	-	ND
S16A	11/2/2022	2'	ND	ND	ND	ND	ND	-	700
S-16B	11/11/2022	2.5'	ND	ND	ND	ND	ND	-	130
S17A	11/2/2022	2'	ND	ND	ND	ND	ND	-	250
S18A	11/2/2022	2'	ND	ND	ND	ND	ND	-	310
S19A	11/2/2022	2'	ND	ND	ND	ND	ND	-	660
S-19B	11/11/2022	2.5'	ND	ND	ND	ND	ND	-	290
S20A	11/2/2022	2'	ND	ND	ND	ND	ND	-	370
SW1	11/3/2022	2'	ND	ND	ND	ND	ND	-	ND
SW2	11/3/2022	2'	ND	ND	ND	ND	ND	-	ND
SW3	11/3/2022	2'	ND	ND	ND	ND	ND	-	ND
SW4	11/3/2022	2'	ND	ND	ND	ND	ND	-	ND
SW5	11/3/2022	2'	ND	ND	ND	ND	ND	-	64
SW6	11/3/2022	2'	ND	ND	ND	ND	ND	-	ND
BG1	11/3/2022	0'	ND	ND	ND	ND	ND	-	ND
BG2	11/3/2022	0'	ND	ND	ND	ND	ND	-	ND
BG3	11/3/2022	0'	ND	ND	ND	ND	ND	-	ND
BG4	11/3/2022	0'	ND	ND	ND	ND	ND	-	ND

ND = Analyte Not Detected SW = Sidewall Sample BG = Background sample

See Appendix V for the complete report of laboratory results

Table III

11/3/2022 Confirmation Sample Laboratory Results (Pasture Impact)

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Chlorides mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg	GRO + DRO + MRO combined = 100 mg/kg			100 mg/kg	600 mg/kg
S-21A	11/3/2022	1'	ND	ND	ND	ND	ND	-	ND
S-22A	11/3/2022	1'	ND	ND	ND	ND	ND	-	ND
S-23A	11/3/2022	1'	ND	ND	ND	ND	ND	-	250
S-24A	11/3/2022	1'	ND	ND	ND	ND	ND	-	180
S-25A	11/3/2022	1'	ND	ND	ND	ND	ND	-	90
S-26A	11/3/2022	1'	ND	ND	ND	ND	ND	-	ND
S-27A	11/3/2022	1'	ND	ND	ND	ND	ND	-	ND
S-28A	11/3/2022	1'	ND	ND	ND	ND	ND	-	210
S-29A	11/3/2022	1'	ND	ND	ND	ND	ND	-	ND
S-30A	11/3/2022	1'	ND	ND	ND	ND	ND	-	ND
S-31A	11/3/2022	1'	ND	ND	ND	ND	ND	-	ND
S-32A	11/3/2022	1'	ND	ND	ND	ND	ND	-	ND
S-33A	11/3/2022	1'	ND	ND	ND	ND	ND	-	ND
SW1	11/3/2022	1'	ND	ND	ND	19	110	129	210
SW1A	11/11/2022	2' *	ND	ND	ND	ND	ND	-	ND
SW2	11/3/2022	1'	ND	ND	ND	ND	ND	-	ND
SW3	11/3/2022	1'	ND	ND	ND	ND	ND	-	ND
SW4	11/3/2022	1'	ND	ND	ND	ND	ND	-	150
BG1	11/3/2022	0'	ND	ND	ND	ND	ND	-	ND
BG2	11/3/2022	0'	ND	ND	ND	ND	54	54	ND
BG3	11/3/2022	0'	ND	ND	ND	ND	ND	-	ND
BG4	11/3/2022	0'	ND	ND	ND	ND	ND	-	ND

ND = Analyte Not Detected SW = Sidewall sample BG = Background sample * = 2' horizontal extension

See Appendix V for the complete report of laboratory results

Remedial Actions

- The spill footprint of the impacted pad area was excavated to a depth of 2 to 2.5 feet bgs (below ground surface), and to the horizontal extent that all surface staining and chlorides were removed. Laboratory analysis confirms that NMOCD remediation guidelines for soil characterization were achieved.

- The spill footprint of the impacted pasture area was excavated to a depth of 1-foot bgs, and to the horizontal extent that all surface staining and chlorides were removed. Laboratory analysis confirms that NMOCD remediation guidelines for soil characterization were achieved.

- Background samples were obtained in order to confirm horizontal delineation in both the pad and pasture impacted areas.

- The excavated pad area was backfilled with clean caliche, from Mo's Crushing LLC, restored to grade and compacted.

- The excavated pasture area was backfilled with clean topsoil from a private landowner, Onsurez, and seeded with BLM #2 seed mixture in accordance with NMSLO guidelines Appendix VI.

- All contaminated soil was transported to R360 Environmental Solutions, a NMOCD approved disposal facility.

- A Liner inspection was completed with Matador Representatives present and no impediments to the liner were observed. See Appendix I

Closure

Based on this site characterization, remedial actions completed, and analytical results we request that no further actions be required, and that closure with regard to the attached incident be granted.

Should you have any questions or if further information is required, please do not hesitate to contact us at 575-441-0980.

Respectfully submitted,

R&R Environmental

James W. Carnes
Environmental Scientist

Rebecca S. Pons
Project Manager

Attachments:

Appendix I	NMOCD
Appendix II	Site Maps
Appendix III	Groundwater Data, Soil Survey, & Wetlands Map
Appendix IV	Photographic Documentation
Appendix V	Laboratory Data
Appendix VI	Seed Tag

Appendix I

NMOCD

C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	nAPP2229363998
District RP	
Facility ID	E-21-22S-28E 0N 0E
Application ID	

Release Notification

Responsible Party

Responsible Party: Matador Production Company	OGRID: 228937
Contact Name: Arsenio T. Jones	Contact Telephone: 575-361-4333
Contact email: arsenio.jones@matadorresources.com	Incident # *(assigned by OCD):* nAPP2229363998
Contact mailing address: One Lincoln Centre Dallas, TX 75240	

Location of Release Source

Latitude 32.38478 Longitude -104.10065 (location of source)
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Barry Miller Booster Station	Site Type: Production Battery
Date Release Discovered: 10/21/2022	API# *(if applicable)E-21_22S-28E ON OE*

Unit Letter	Section	Township	Range	County
E	21	22S	28E	Eddy

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (*Name:* _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 7	Volume Recovered (bbls) 5
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☒ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Seal on charge pump failed releasing fluid inside containment.

State of New Mexico
Oil Conservation Division

Incident ID	nAPP228848285
District RP	
Facility ID	L-21-20S-35E ON OE
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release? The Release was > 50bbl
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Notification was provided to the NMOCD on 10/20/22 by Arsenio Jones of Matador (online).	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

☒ The source of the release has been stopped.

☒ The impacted area has been secured to protect human health and the environment.

☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Arsenio T. Jones Title: Regulatory, Environmental and Safety Specialist

Signature: _____ Date: 10/21/22

email: arsenio.jones@matadorresources.com Telephone: 575-361-4333

OCD Only

Received by: Jocelyn Harimon Date: 10/21/2022

Form C-141
Page 3

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2229363998
District RP	
Facility ID	E-21-22S-28E
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	53 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: ***Each of the following items must be included in the report.***

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2229363998
District RP	
Facility ID	E-21-22S-28E
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Arsenio Jones Title: Regulatory Environmental and Safety Specialist

Signature: Date: 11/30/2022

email: arsenio.jones@matadorresources.com Telephone: 575-361-4333

OCD Only

Received by: Jocelyn Harimon Date: 12/16/2022

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Page 5

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2229363998
District RP	
Facility ID	E-21-22S-28E
Application ID	

Remediation Plan

Remediation Plan Checklist: ***Each of the following items must be included in the plan.***

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: ***Each of the following items must be confirmed as part of any request for deferral of remediation.***

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Arsenio Jones Title: Regulatory Environmental and Safety Specialist

Signature: Date: 11/30/2022

email: arsenio.jones@matadorresources.com Telephone: 575-361-4333

OCD Only

Received by: Jocelyn Harimon Date: 12/16/2022

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2229363998
District RP	
Facility ID	E-21-22S-28E
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: ***Each of the following items must be included in the closure report.***

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Arsenio Jones Title: Regulatory Environmental and Safety Specialist

Signature: Date: 11/30/2022

email: arsenio.jones@matadorresources.com Telephone: 575-361-4333

OCD Only

Received by: Date:

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Date:

Printed Name: Title:

Liner Integrity Certification

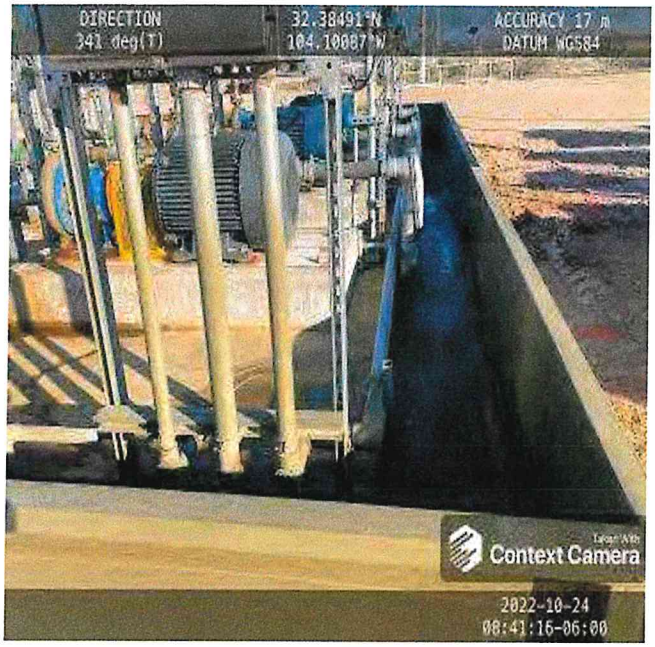
The following serves to verify that the affected liner has been inspected and found to be in serviceable condition in accordance with 19.15.29.11 A.(5)(a)(i-ii) of the New Mexico Administrative Code.

Facility ID:

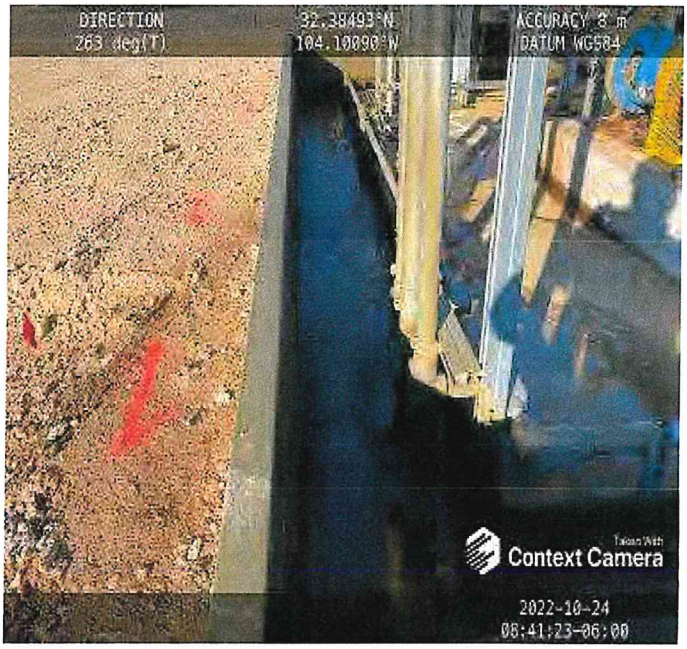
Date: 10/24/2022

Incident ID(s): nAPP2229363998

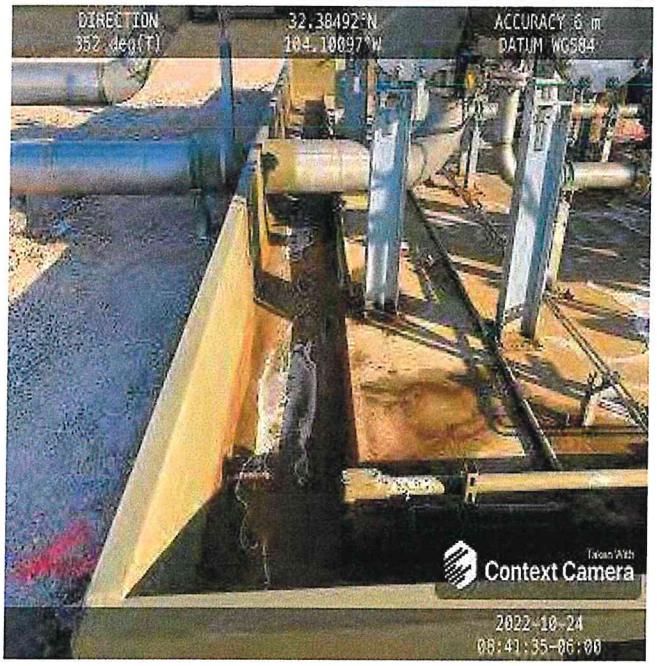
- ☑ Responsible Party has visually inspected the liner.
- ☑ Liner remains intact and was able to contain the leak in question.
- ☑ At least two business days' notice was given to the appropriate division district office before conducting the liner inspection.
- ☑ Photographs illustrating liner integrity are included.



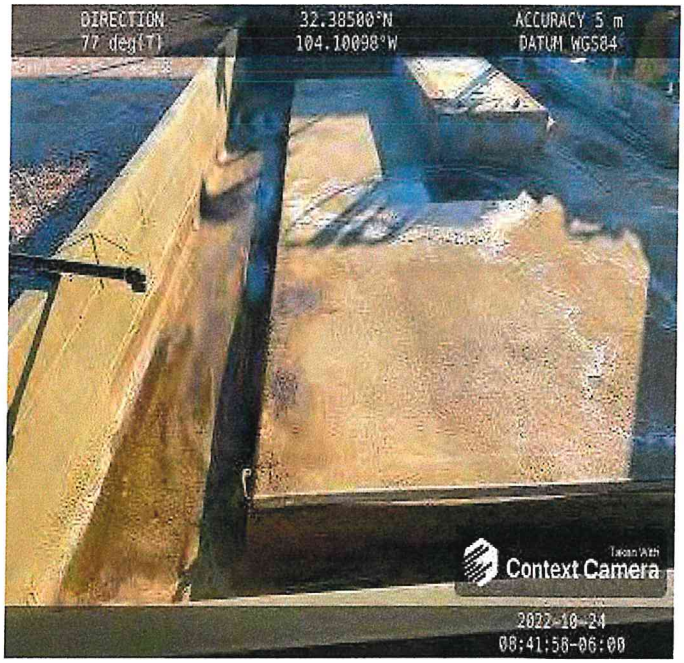
Liner in containment, North Side.



Liner in containment, East Side.



Liner in containment, West Side.

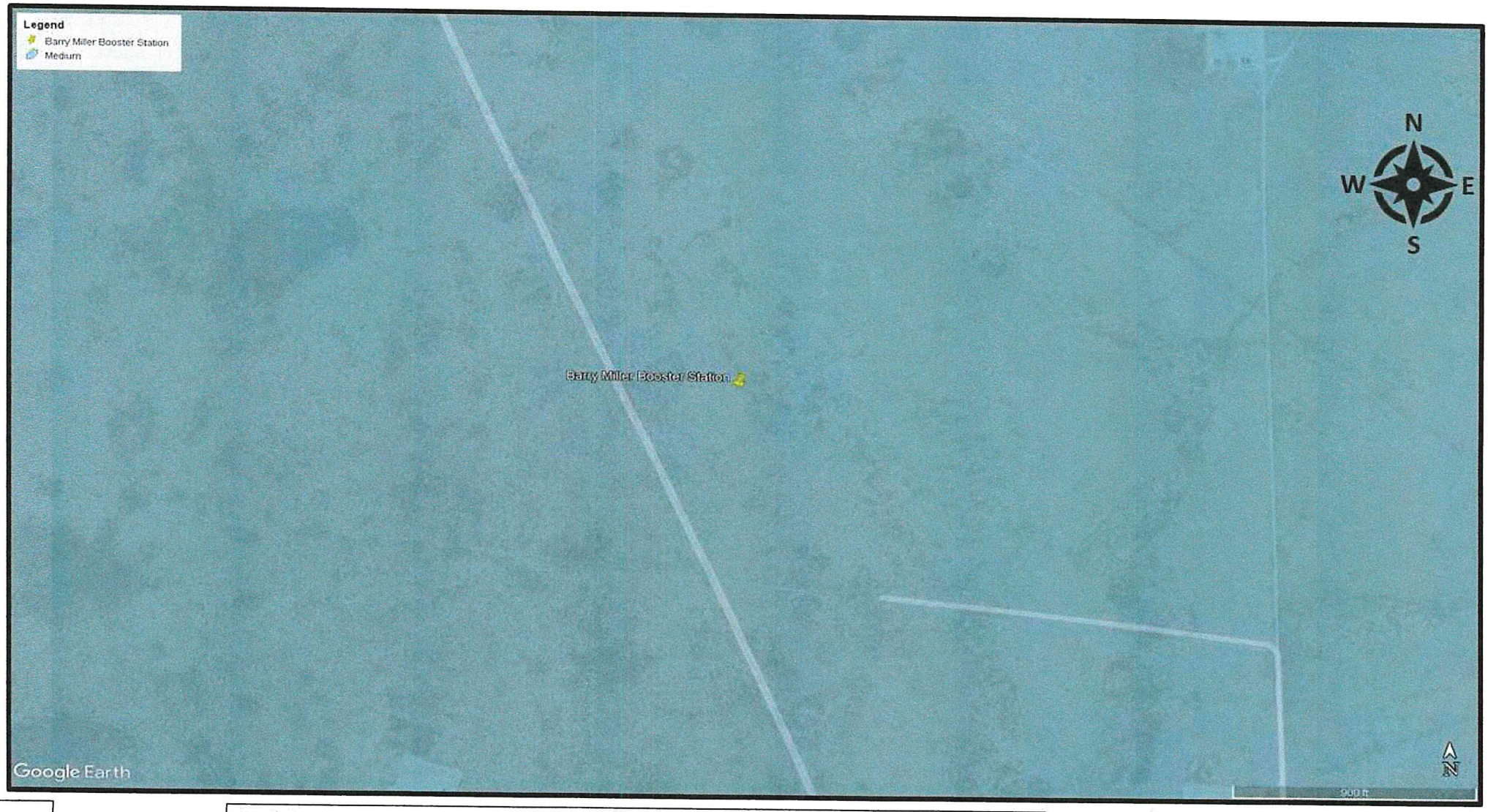


Liner in containment, South Side.

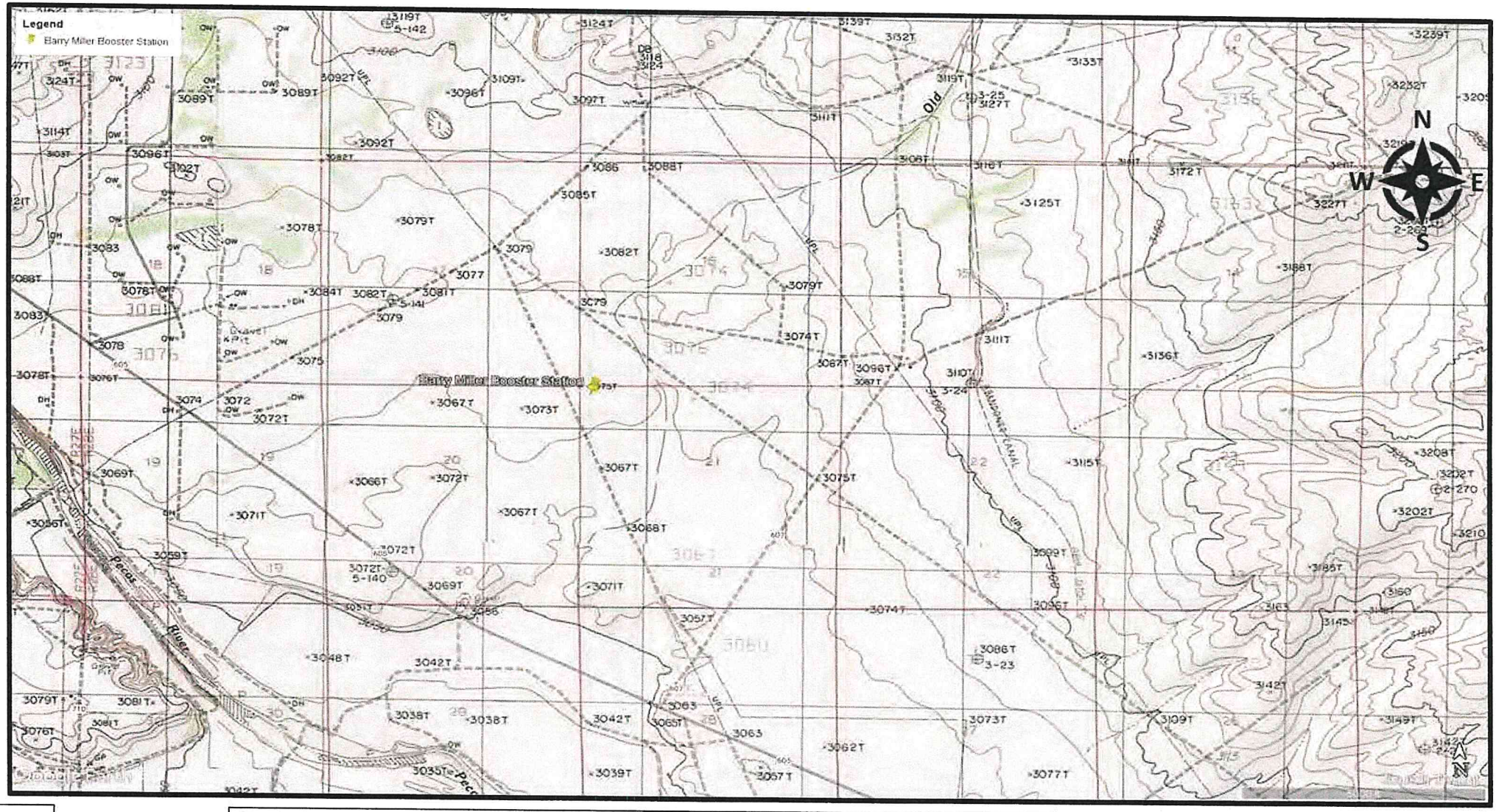
Appendix II

Site Maps

Matador Resources Barry Miller Booster Station	Eddy County, NM Incident #nAPP2229363998	Site Assessment Map



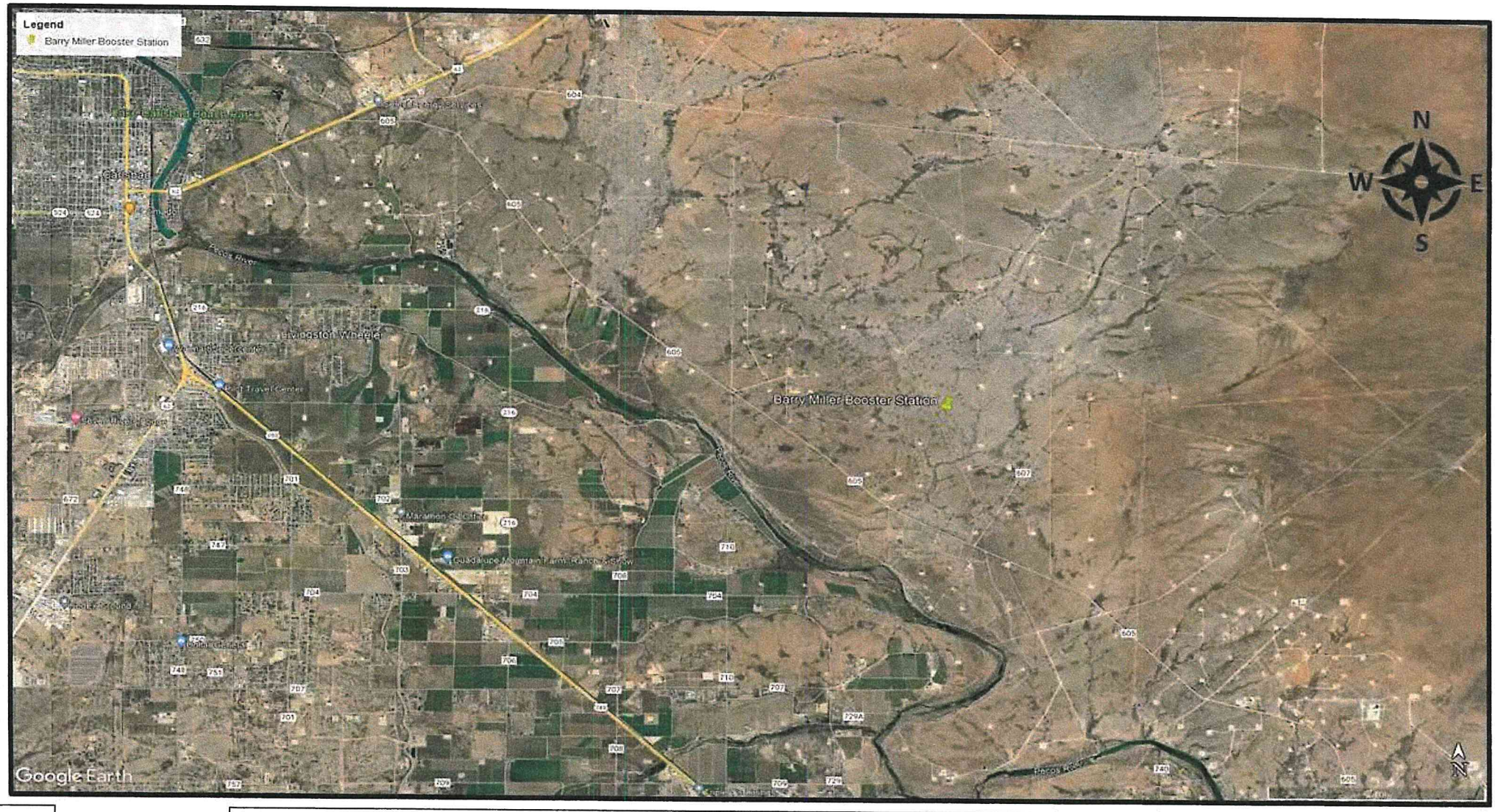
Matador Resources Barry Miller Booster Station	Eddy County, NM Incident #nAPP2229363998	Karst Map



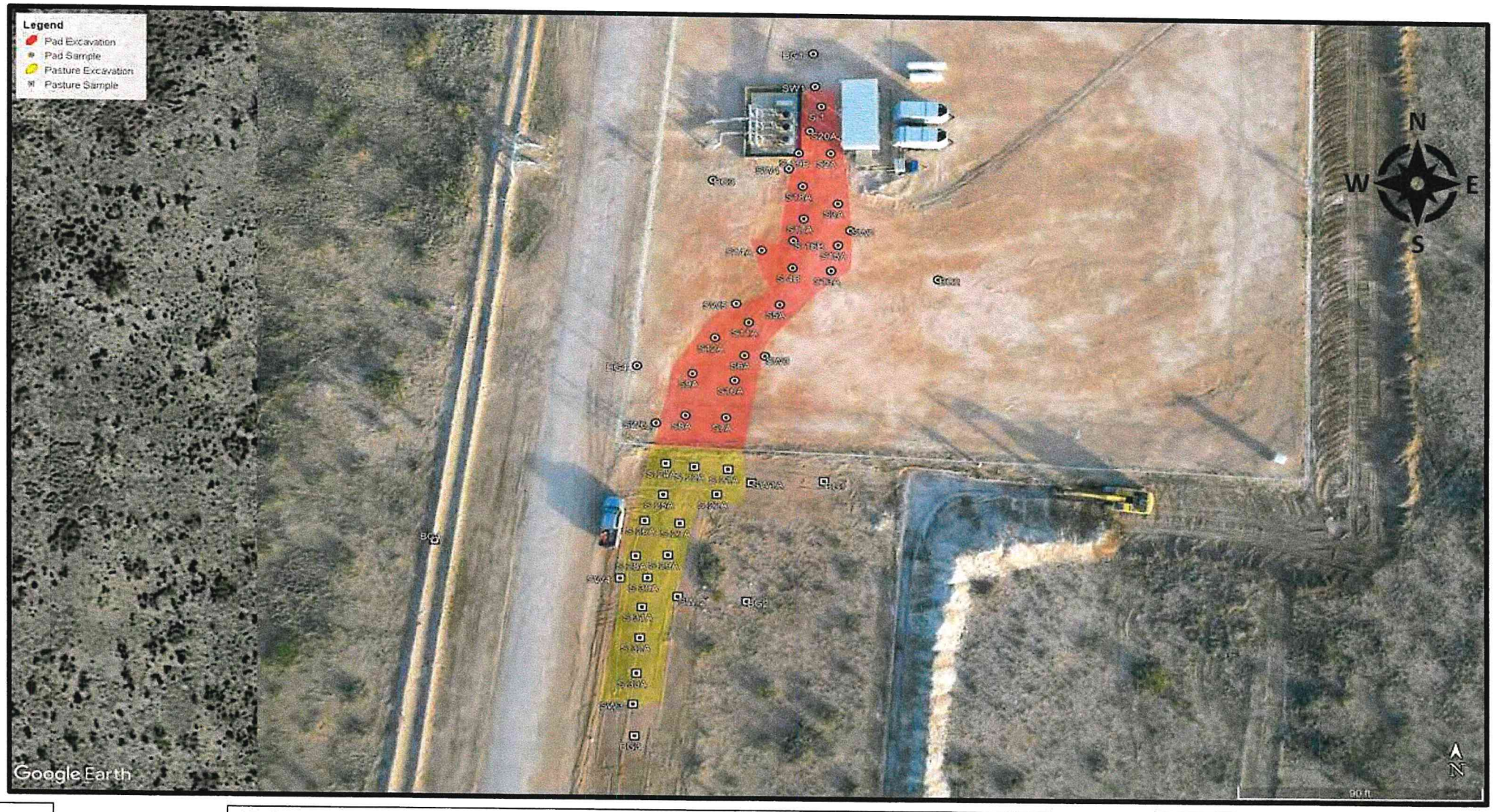
Matador Resources
Barry Miller Booster Station

Eddy County, NM
Incident #nAPP2229363998

Topography Map



SR	Matador Resources Barry Miller Booster Station	Eddy County, NM Incident #nAPP2229363998	Site Location Map



Matador Resources
Barry Miller Booster Station

Eddy County, NM
Incident #nAPP2229363998

Confirmation Sample Map

Appendix III

Groundwater Data, Soil Survey, & Wetlands Map

New Mexico Office of the State Engineer
Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Twn	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 00642		C	ED				19	22S	28E	582220	3582687*	2490	200		
C 01508		C	ED	1	1	4	18	22S	28E	582206	3584195*	2502	180		
C 00052	O	CUB	ED	3	4	4	30	22S	28E	582707	3580371*	3603	208	12	196
C 00213		CUB	ED	1	4	1	32	22S	28E	583517	3579775*	3821	200	35	165
C 00036		CUB	ED	3	3	2	32	22S	28E	583916	3579583*	3917	106		
C 02470 CLW198142	O		ED	4	3	4	24	22S	27E	580901	3581970*	3974	67	36	31
C 03094		C	ED	4	3	1	32	22S	28E	583317	3579567*	4079	138	53	85
C 00294		CUB	ED	3	3	4	24	22S	27E	580701	3581970*	4161	156	15	141
C 00236		C	ED	2	2	3	32	22S	28E	583723	3579372*	4161	80	39	41
C 00209		C	ED	3	2	4	25	22S	27E	581111	3580763*	4393	125		
C 03534 POD1		CUB	ED	4	3	4	03	22S	28E	587240	3586950	4394	150		
C 03533 POD4		CUB	ED	4	3	4	03	22S	28E	587331	3586892	4404	55		
C 03533 POD3		CUB	ED	3	4	4	03	22S	28E	587370	3586911	4443	55		
C 03533 POD2		CUB	ED	3	4	4	03	22S	28E	587358	3586935	4454	55		
C 03533 POD1		CUB	ED	3	4	4	03	22S	28E	587377	3586934	4466	55		
C 00627		C	ED			1	13	22S	27E	580178	3584690*	4587	100		
C 00971		C	ED		3	3	13	22S	27E	579981	3583679*	4618	60	18	42
C 04554 POD1		C	ED	4	1	1	13	22S	27E	580167	3584850	4644	70	18	52
C 00214		CUB	ED	2	3	3	32	22S	28E	583327	3578962*	4655	200		
C 03184		C	ED	2	3	3	32	22S	28E	583327	3578962*	4655	157	30	127
C 01677		C	ED		1	3	13	22S	27E	579979	3584084*	4658	56	20	36
C 02840		CUB	ED	2	3	1	31	22S	28E	581721	3579758*	4671	220		
C 03514 POD1		C	ED	1	3	1	24	22S	27E	579923	3583010	4689	59	31	28
C 01590		C	ED		3	1	13	22S	27E	579977	3584489*	4733	100	40	60
C 04318 POD1		C	ED	1	3	1	24	22S	27E	579847	3582984	4767	79	58	21
C 00770 CLW202385	O	CUB	ED	1	3	4	25	22S	27E	580705	3580551*	4845	210	22	188
C 00770 S		CUB	ED	1	3	4	25	22S	27E	580705	3580551*	4845	210		
C 03040		C	ED	4	3	1	31	22S	28E	582254	3579191	4851	72	42	30
C 02529		C	ED			3	12	22S	27E	580174	3585501*	4875	113	51	62
C 02536		C	ED	4	1	1	25	22S	27E	580088	3581552*	4885	120	20	100
C 00035		CUB	ED	3	3	3	32	22S	28E	583127	3578762*	4904	146		
C 00212		CUB	ED	3	3	3	32	22S	28E	583127	3578762*	4904	146	30	116
C 00212 CLW193874	O	CUB	ED	3	3	3	32	22S	28E	583127	3578762*	4904			

C 00836	C	ED	3	1	1	13	22S	27E	579874	3584794*	4908	175	52	123
C 01722	C	ED	3	1	1	13	22S	27E	579874	3584794*	4908	180	64	116
C 04588 POD1	CUB	ED	2	2	2	04	23S	28E	586043	3578720	4939	50		
C 02499	C	ED		1	1	25	22S	27E	579989	3581653*	4939	100	35	65
C 00770	CUB	ED	3	3	4	25	22S	27E	580705	3580351*	4966	200	44	156

Average Depth to Water: **34 feet**

Minimum Depth: **12 feet**

Maximum Depth: **64 feet**

Record Count: 38

UTMNAD83 Radius Search (in meters):

Easting (X): 584593 **Northing (Y):** 3583442 **Radius:** 5000

***UTM location was derived from PLSS - see Help**

10/24/22 1:18 PM WATER COLUMN/ AVERAGE DEPTH TO WATER

New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	C 03094	4	3	1	32	22S	28E	583317	3579567*

Driller License:	1348	**Driller Company:**	TAYLOR WATER WELL SERVICE		
Driller Name:					
Drill Start Date:	11/24/2004	**Drill Finish Date:**	11/28/2004	**Plug Date:**	
Log File Date:	12/06/2004	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	120 GPM
Casing Size:	6.63	**Depth Well:**	138 feet	**Depth Water:**	53 feet

Water Bearing Stratifications:	Top	Bottom	Description
	84	94	Sandstone/Gravel/Conglomerate
	119	138	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	78	98
	118	138

***UTM location was derived from PLSS - see Help**

United States Department of Agriculture

NRCS

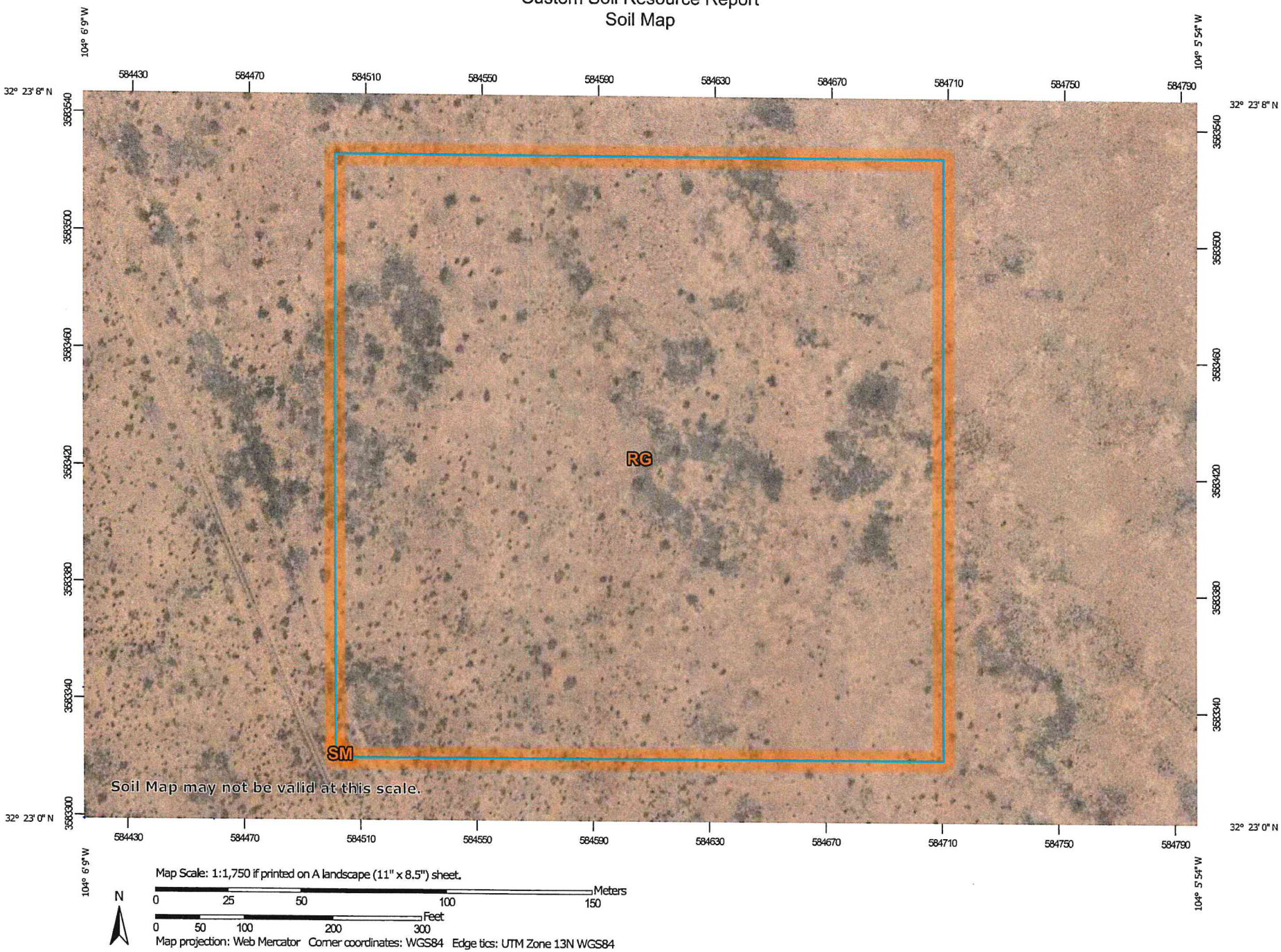
Natural Resources Conservation Service

A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Eddy Area, New Mexico

October 24, 2022

Custom Soil Resource Report
Soil Map



MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features

- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features

- Streams and Canals

Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background

- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 18, Sep 8, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 27, 2020—Feb 28, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Eddy Area, New Mexico

RG—Reeves-Gypsum land complex, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w5f
Elevation: 1,250 to 5,000 feet
Mean annual precipitation: 10 to 25 inches
Mean annual air temperature: 57 to 70 degrees F
Frost-free period: 190 to 235 days
Farmland classification: Not prime farmland

Map Unit Composition

Reeves and similar soils: 55 percent
Gypsum land: 30 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Reeves

Setting

Landform: Ridges, plains, hills
Landform position (two-dimensional): Shoulder, backslope, footslope, toeslope
Landform position (three-dimensional): Side slope, head slope, nose slope, crest
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Residuum weathered from gypsum

Typical profile

H1 - 0 to 8 inches: loam
H2 - 8 to 32 inches: clay loam
H3 - 32 to 60 inches: gypsiferous material

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 25 percent
Gypsum, maximum content: 80 percent
Maximum salinity: Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)
Sodium adsorption ratio, maximum: 4.0
Available water supply, 0 to 60 inches: Low (about 4.3 inches)

Interpretive groups

Land capability classification (irrigated): 3s
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: B
Ecological site: R070BC007NM - Loamy
Hydric soil rating: No

Description of Gypsum Land

Setting

Landform: Ridges, plains, hills
Landform position (two-dimensional): Shoulder, backslope, footslope, toeslope
Landform position (three-dimensional): Side slope, head slope, nose slope, crest
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Residuum weathered from gypsum

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 8s
Hydric soil rating: No

Minor Components

Largo

Percent of map unit: 5 percent
Ecological site: R070BC007NM - Loamy
Hydric soil rating: No

Reagan

Percent of map unit: 5 percent
Ecological site: R070BC007NM - Loamy
Hydric soil rating: No

Cottonwood

Percent of map unit: 5 percent
Ecological site: R070BC033NM - Salty Bottomland
Hydric soil rating: No

SM—Simona-Bippus complex, 0 to 5 percent slopes

Map Unit Setting

National map unit symbol: 1w5x
Elevation: 1,800 to 5,000 feet
Mean annual precipitation: 8 to 24 inches
Mean annual air temperature: 57 to 70 degrees F
Frost-free period: 180 to 230 days
Farmland classification: Not prime farmland

Map Unit Composition

Simona and similar soils: 55 percent
Bippus and similar soils: 30 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Simona

Setting

Landform: Plains, alluvial fans
Landform position (three-dimensional): Rise
Down-slope shape: Convex, linear
Across-slope shape: Linear
Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 19 inches: gravelly fine sandy loam
H2 - 19 to 23 inches: indurated

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 7 to 20 inches to petrocalcic
Drainage class: Well drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 15 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Very low (about 2.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: D
Ecological site: R070BD002NM - Shallow Sandy
Hydric soil rating: No

Description of Bippus

Setting

Landform: Flood plains, alluvial fans
Landform position (three-dimensional): Talf, rise
Down-slope shape: Convex, linear
Across-slope shape: Linear
Parent material: Mixed alluvium

Typical profile

H1 - 0 to 37 inches: silty clay loam
H2 - 37 to 60 inches: clay loam

Properties and qualities

Slope: 0 to 5 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: OccasionalNone

Frequency of ponding: None
Calcium carbonate, maximum content: 40 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Moderate (about 8.7 inches)

Interpretive groups

Land capability classification (irrigated): 2e
Land capability classification (nonirrigated): 3e
Hydrologic Soil Group: B
Ecological site: R070BC017NM - Bottomland
Hydric soil rating: No

Minor Components

Simona

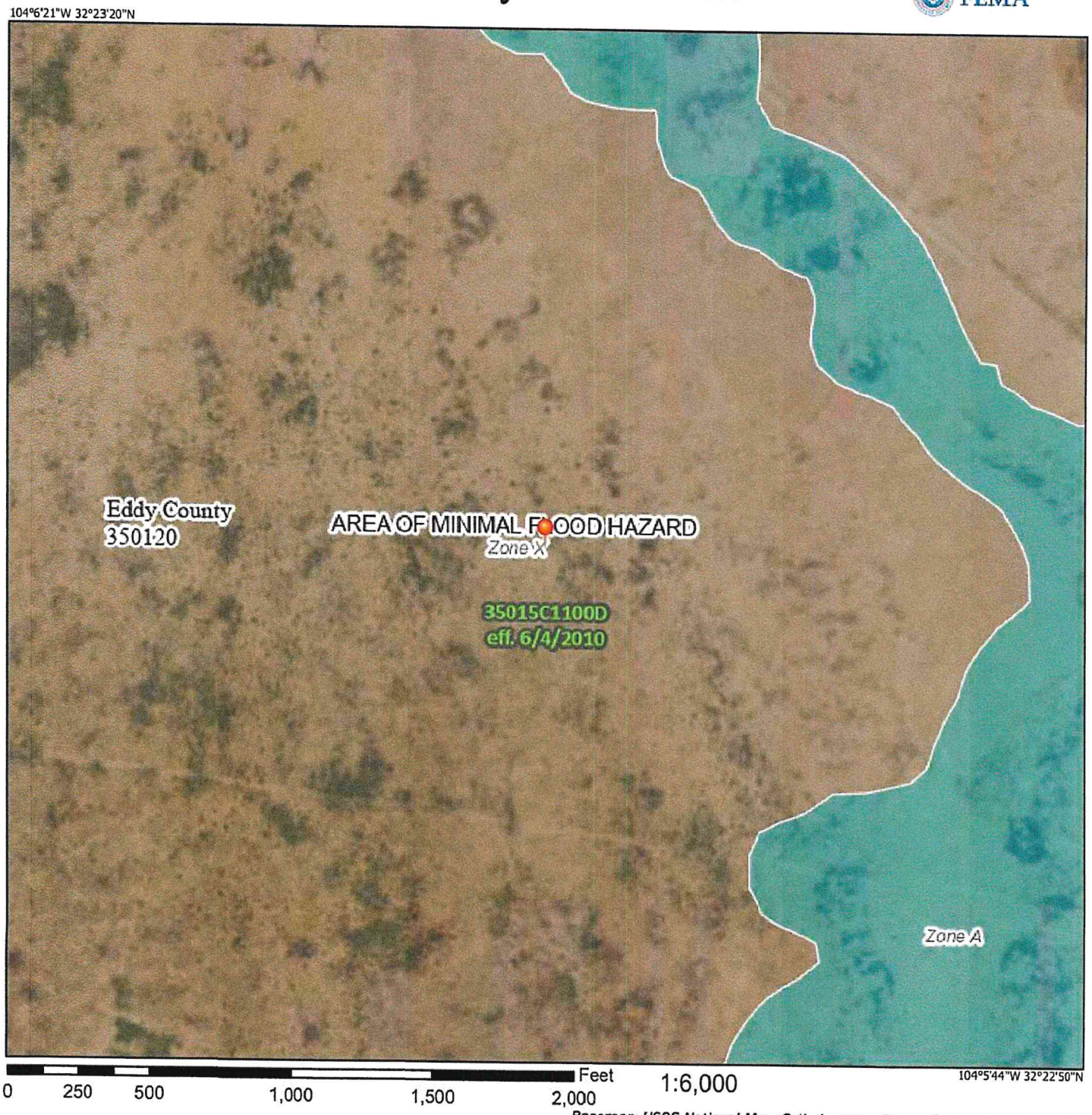
Percent of map unit: 8 percent
Ecological site: R070BD002NM - Shallow Sandy
Hydric soil rating: No

Bippus

Percent of map unit: 7 percent
Ecological site: R070BC017NM - Bottomland
Hydric soil rating: No

National Flood Hazard Layer FIRMette

FEMA



Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) Zone A, V, A99
- With BFE or Depth Zone AE, AO, AH, VE, AR
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
- Future Conditions 1% Annual Chance Flood Hazard Zone X
- Area with Reduced Flood Risk due to Levee. See Notes. Zone X
- Area with Flood Risk due to Levee Zone D

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard Zone X
- Effective LOMRs
- Area of Undetermined Flood Hazard Zone D

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 / 17.5 Cross Sections with 1% Annual Chance / Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

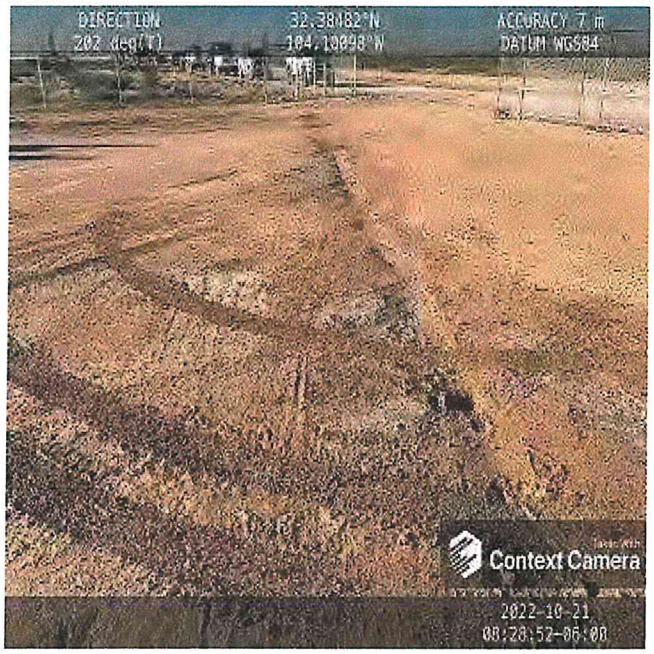
This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 10/24/2022 at 3:29 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

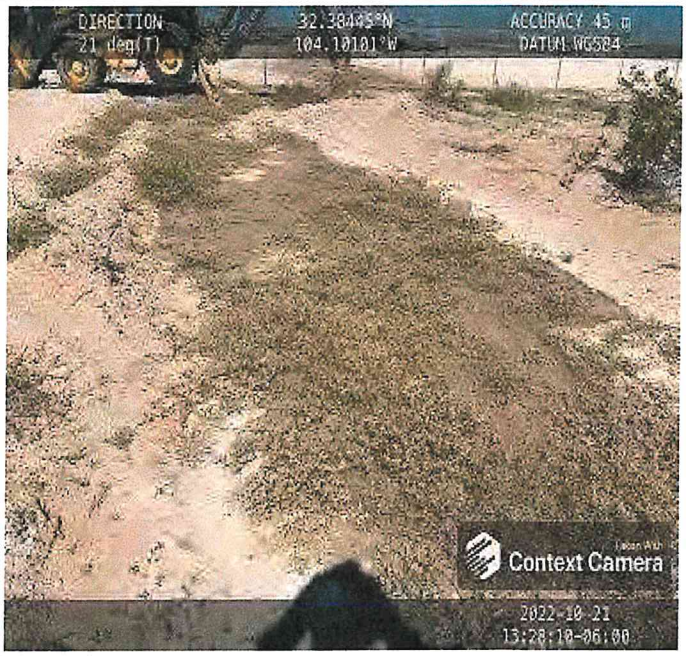
This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Appendix IV

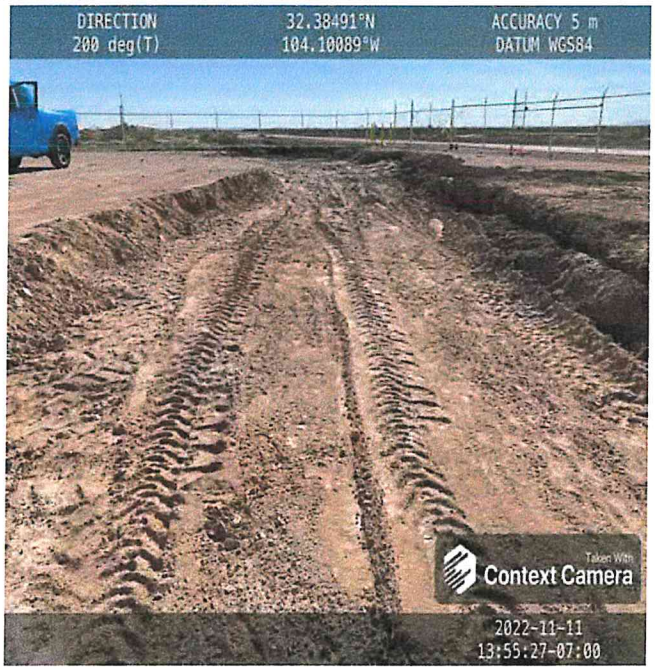
Photographic Documentation



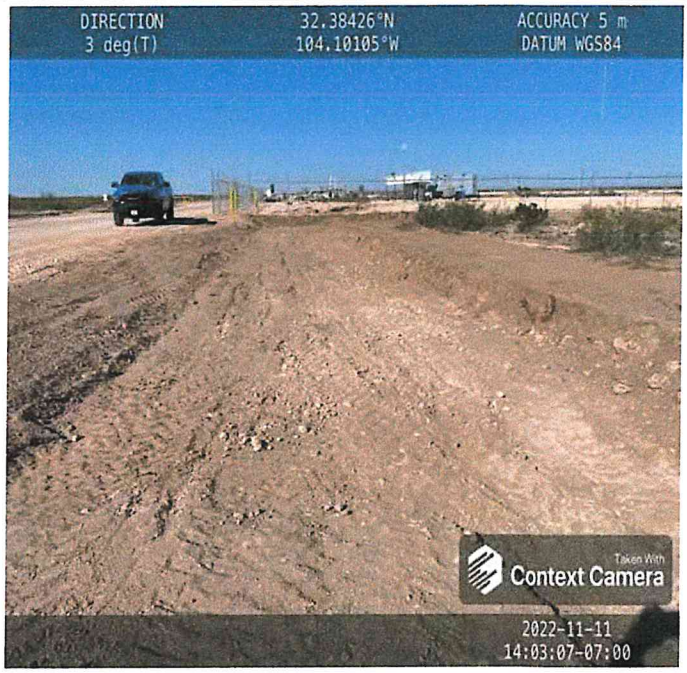
Impacted area on Pad.



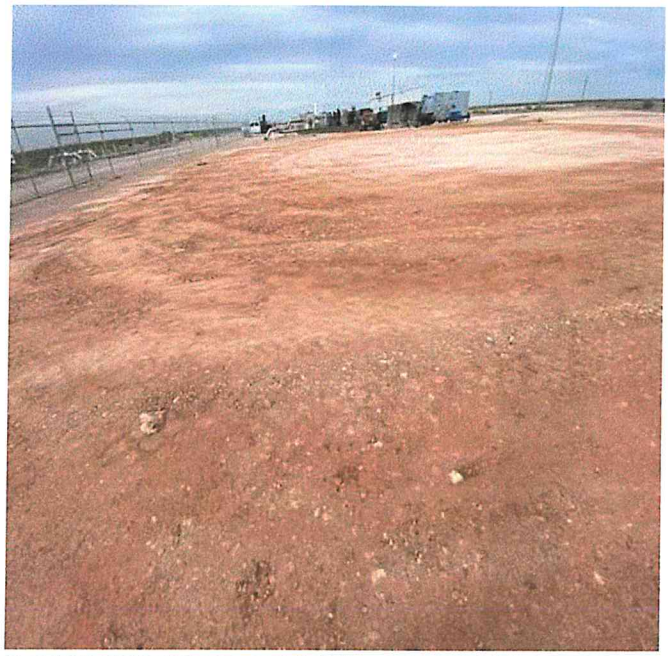
Impacted area in Pasture.



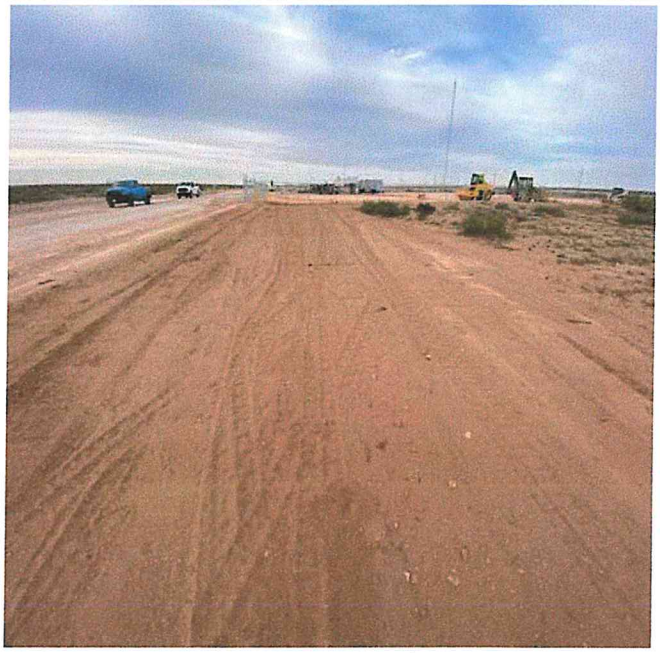
Excavation of Pad area.



Excavation of Pasture area.



Backfill to grade and compacted pad.



Backfill to grade of pasture area.

Appendix V

Laboratory Data

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

November 02, 2022

James Carnes
R & R Environmental
1505 W. Bullock Ave
Artesia, NM 88210
TEL: (575) 616-9340
FAX:

RE: Barry Miller Booster Station OrderNo.: 2210C50

Dear James Carnes:

Hall Environmental Analysis Laboratory received 7 sample(s) on 10/26/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2210C50**
Date Reported: **11/2/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R & R Environmental
Client Sample ID: S-1 0.5'
Project: Barry Miller Booster Station
Collection Date: 10/24/2022 9:00:00 AM
Lab ID: 2210C50-001 **Matrix:** SOIL
Received Date: 10/26/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	150	60		mg/Kg	20	10/31/2022 4:23:08 PM	71179
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/28/2022 6:43:27 PM	71099
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/28/2022 6:43:27 PM	71099
Surr: DNOP	93.6	21-129		%Rec	1	10/28/2022 6:43:27 PM	71099
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/28/2022 5:06:00 PM	71084
Surr: BFB	98.7	37.7-212		%Rec	1	10/28/2022 5:06:00 PM	71084
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.025		mg/Kg	1	10/28/2022 5:06:00 PM	71084
Toluene	ND	0.049		mg/Kg	1	10/28/2022 5:06:00 PM	71084
Ethylbenzene	ND	0.049		mg/Kg	1	10/28/2022 5:06:00 PM	71084
Xylenes, Total	ND	0.099		mg/Kg	1	10/28/2022 5:06:00 PM	71084
Surr: 4-Bromofluorobenzene	116	70-130		%Rec	1	10/28/2022 5:06:00 PM	71084

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R & R Environmental
Project: Barry Miller Booster Station
Lab ID: 2210C50-002 **Matrix:** SOIL

Client Sample ID: S-2 0.5'
Collection Date: 10/24/2022 9:05:00 AM
Received Date: 10/26/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	3100	150		mg/Kg	50	11/1/2022 9:40:53 AM	71179
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/28/2022 6:54:12 PM	71099
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/28/2022 6:54:12 PM	71099
Surr: DNOP	123	21-129		%Rec	1	10/28/2022 6:54:12 PM	71099
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	10/28/2022 5:25:00 PM	71084
Surr: BFB	99.9	37.7-212		%Rec	1	10/28/2022 5:25:00 PM	71084
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.023		mg/Kg	1	10/28/2022 5:25:00 PM	71084
Toluene	ND	0.046		mg/Kg	1	10/28/2022 5:25:00 PM	71084
Ethylbenzene	ND	0.046		mg/Kg	1	10/28/2022 5:25:00 PM	71084
Xylenes, Total	ND	0.093		mg/Kg	1	10/28/2022 5:25:00 PM	71084
Surr: 4-Bromofluorobenzene	114	70-130		%Rec	1	10/28/2022 5:25:00 PM	71084

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R & R Environmental
Project: Barry Miller Booster Station
Lab ID: 2210C50-003 **Matrix:** SOIL

Client Sample ID: S-3 0.5'
Collection Date: 10/24/2022 9:15:00 AM
Received Date: 10/26/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	1400	60		mg/Kg	20	10/31/2022 4:47:58 PM	71179
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	10/28/2022 7:04:55 PM	71099
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/28/2022 7:04:55 PM	71099
Surr: DNOP	111	21-129		%Rec	1	10/28/2022 7:04:55 PM	71099
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/28/2022 5:45:00 PM	71084
Surr: BFB	101	37.7-212		%Rec	1	10/28/2022 5:45:00 PM	71084
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.025		mg/Kg	1	10/28/2022 5:45:00 PM	71084
Toluene	ND	0.050		mg/Kg	1	10/28/2022 5:45:00 PM	71084
Ethylbenzene	ND	0.050		mg/Kg	1	10/28/2022 5:45:00 PM	71084
Xylenes, Total	ND	0.099		mg/Kg	1	10/28/2022 5:45:00 PM	71084
Surr: 4-Bromofluorobenzene	115	70-130		%Rec	1	10/28/2022 5:45:00 PM	71084

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R & R Environmental
Project: Barry Miller Booster Station
Lab ID: 2210C50-004 **Matrix:** SOIL

Client Sample ID: S-4 0.5'
Collection Date: 10/24/2022 9:20:00 AM
Received Date: 10/26/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	1300	60		mg/Kg	20	10/31/2022 5:00:22 PM	71179
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	10/28/2022 7:15:37 PM	71099
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/28/2022 7:15:37 PM	71099
Surr: DNOP	92.9	21-129		%Rec	1	10/28/2022 7:15:37 PM	71099
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/28/2022 6:05:00 PM	71084
Surr: BFB	96.4	37.7-212		%Rec	1	10/28/2022 6:05:00 PM	71084
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.024		mg/Kg	1	10/28/2022 6:05:00 PM	71084
Toluene	ND	0.048		mg/Kg	1	10/28/2022 6:05:00 PM	71084
Ethylbenzene	ND	0.048		mg/Kg	1	10/28/2022 6:05:00 PM	71084
Xylenes, Total	ND	0.097		mg/Kg	1	10/28/2022 6:05:00 PM	71084
Surr: 4-Bromofluorobenzene	114	70-130		%Rec	1	10/28/2022 6:05:00 PM	71084

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R & R Environmental
Project: Barry Miller Booster Station
Lab ID: 2210C50-005 **Matrix:** SOIL

Client Sample ID: S-5 0.5'
Collection Date: 10/24/2022 9:30:00 AM
Received Date: 10/26/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	1300	60		mg/Kg	20	10/31/2022 5:12:46 PM	71179
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/28/2022 7:36:52 PM	71099
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	10/28/2022 7:36:52 PM	71099
Surr: DNOP	85.0	21-129		%Rec	1	10/28/2022 7:36:52 PM	71099
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/28/2022 6:24:00 PM	71084
Surr: BFB	104	37.7-212		%Rec	1	10/28/2022 6:24:00 PM	71084
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.024		mg/Kg	1	10/28/2022 6:24:00 PM	71084
Toluene	ND	0.047		mg/Kg	1	10/28/2022 6:24:00 PM	71084
Ethylbenzene	ND	0.047		mg/Kg	1	10/28/2022 6:24:00 PM	71084
Xylenes, Total	ND	0.095		mg/Kg	1	10/28/2022 6:24:00 PM	71084
Surr: 4-Bromofluorobenzene	115	70-130		%Rec	1	10/28/2022 6:24:00 PM	71084

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R & R Environmental
Project: Barry Miller Booster Station
Lab ID: 2210C50-006 **Matrix:** SOIL

Client Sample ID: S-6 0.5'
Collection Date: 10/24/2022 9:35:00 AM
Received Date: 10/26/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	2000	60		mg/Kg	20	10/31/2022 5:25:10 PM	71179
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	10/28/2022 7:47:31 PM	71099
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/28/2022 7:47:31 PM	71099
Surr: DNOP	85.1	21-129		%Rec	1	10/28/2022 7:47:31 PM	71099
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/28/2022 6:44:00 PM	71084
Surr: BFB	98.4	37.7-212		%Rec	1	10/28/2022 6:44:00 PM	71084
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.023		mg/Kg	1	10/28/2022 6:44:00 PM	71084
Toluene	ND	0.047		mg/Kg	1	10/28/2022 6:44:00 PM	71084
Ethylbenzene	ND	0.047		mg/Kg	1	10/28/2022 6:44:00 PM	71084
Xylenes, Total	ND	0.093		mg/Kg	1	10/28/2022 6:44:00 PM	71084
Surr: 4-Bromofluorobenzene	114	70-130		%Rec	1	10/28/2022 6:44:00 PM	71084

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R & R Environmental
Client Sample ID: S-7 0.5'
Project: Barry Miller Booster Station
Collection Date: 10/24/2022 9:40:00 AM
Lab ID: 2210C50-007 **Matrix:** SOIL
Received Date: 10/26/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	2000	60		mg/Kg	20	10/31/2022 7:41:39 PM	71186
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	10/28/2022 7:58:09 PM	71099
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/28/2022 7:58:09 PM	71099
Surr: DNOP	77.4	21-129		%Rec	1	10/28/2022 7:58:09 PM	71099
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/28/2022 7:23:00 PM	71084
Surr: BFB	97.5	37.7-212		%Rec	1	10/28/2022 7:23:00 PM	71084
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.023		mg/Kg	1	10/28/2022 7:23:00 PM	71084
Toluene	ND	0.047		mg/Kg	1	10/28/2022 7:23:00 PM	71084
Ethylbenzene	ND	0.047		mg/Kg	1	10/28/2022 7:23:00 PM	71084
Xylenes, Total	ND	0.094		mg/Kg	1	10/28/2022 7:23:00 PM	71084
Surr: 4-Bromofluorobenzene	114	70-130		%Rec	1	10/28/2022 7:23:00 PM	71084

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210C50**

02-Nov-22

Client: R & R Environmental

Project: Barry Miller Booster Station

Sample ID: **MB-71179**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **71179**	RunNo: **92227**
Prep Date: **10/31/2022**	Analysis Date: **10/31/2022**	SeqNo: **3312348** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-71179**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **71179**	RunNo: **92227**
Prep Date: **10/31/2022**	Analysis Date: **10/31/2022**	SeqNo: **3312349** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.7	90	110			

Sample ID: **LCS-71186**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **71186**	RunNo: **92227**
Prep Date: **10/31/2022**	Analysis Date: **10/31/2022**	SeqNo: **3312379** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.5	90	110			

Sample ID: **MB-71186**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **71186**	RunNo: **92252**
Prep Date: **10/31/2022**	Analysis Date: **11/1/2022**	SeqNo: **3313631** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210C50**

02-Nov-22

Client: R & R Environmental

Project: Barry Miller Booster Station

Sample ID: **LCS-71099**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **71099**	RunNo: **92135**
Prep Date: **10/26/2022**	Analysis Date: **10/27/2022**	SeqNo: **3307451** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	15	50.00	0	90.6	64.4	127			
Surr: DNOP	4.9		5.000		98.8	21	129			

Sample ID: **MB-71099**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **71099**	RunNo: **92135**
Prep Date: **10/26/2022**	Analysis Date: **10/27/2022**	SeqNo: **3307453** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.4		10.00		93.5	21	129			

Sample ID: **LCS-71171**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **71171**	RunNo: **92198**
Prep Date: **10/31/2022**	Analysis Date: **10/31/2022**	SeqNo: **3311075** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.4		5.000		88.2	21	129			

Sample ID: **MB-71171**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **71171**	RunNo: **92198**
Prep Date: **10/31/2022**	Analysis Date: **10/31/2022**	SeqNo: **3311076** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.0		10.00		90.3	21	129			

Sample ID: **LCS-71174**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **71174**	RunNo: **92198**
Prep Date: **10/31/2022**	Analysis Date: **10/31/2022**	SeqNo: **3312301** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.5		5.000		110	21	129			

Sample ID: **MB-71174**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **71174**	RunNo: **92198**
Prep Date: **10/31/2022**	Analysis Date: **10/31/2022**	SeqNo: **3312302** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.7		10.00		96.8	21	129			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210C50**

02-Nov-22

Client: R & R Environmental

Project: Barry Miller Booster Station

Sample ID: **lcs-71084**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **71084**	RunNo: **92196**
Prep Date: **10/26/2022**	Analysis Date: **10/28/2022**	SeqNo: **3310373** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	102	72.3	137			
Surr: BFB	2200		1000		216	37.7	212			S

Sample ID: **mb-71084**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **71084**	RunNo: **92196**
Prep Date: **10/26/2022**	Analysis Date: **10/28/2022**	SeqNo: **3310374** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	970		1000		97.5	37.7	212			

Sample ID: **lcs-71125**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **71125**	RunNo: **92196**
Prep Date: **10/27/2022**	Analysis Date: **10/29/2022**	SeqNo: **3310421** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	2200		1000		221	37.7	212			S

Sample ID: **mb-71125**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **71125**	RunNo: **92196**
Prep Date: **10/27/2022**	Analysis Date: **10/29/2022**	SeqNo: **3310422** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		102	37.7	212			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210C50**

02-Nov-22

Client: R & R Environmental

Project: Barry Miller Booster Station

Sample ID: **lcs-71084**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **71084**	RunNo: **92196**
Prep Date: **10/26/2022**	Analysis Date: **10/28/2022**	SeqNo: **3310523** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.025	1.000	0	118	80	120			
Toluene	1.2	0.050	1.000	0	118	80	120			
Ethylbenzene	1.2	0.050	1.000	0	116	80	120			
Xylenes, Total	3.5	0.10	3.000	0	116	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		113	70	130			

Sample ID: **mb-71084**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **71084**	RunNo: **92196**
Prep Date: **10/26/2022**	Analysis Date: **10/28/2022**	SeqNo: **3310524** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		112	70	130			

Sample ID: **lcs-71125**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **71125**	RunNo: **92196**
Prep Date: **10/27/2022**	Analysis Date: **10/29/2022**	SeqNo: **3310571** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.2		1.000		121	70	130			

Sample ID: **mb-71125**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **71125**	RunNo: **92196**
Prep Date: **10/27/2022**	Analysis Date: **10/29/2022**	SeqNo: **3310572** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.2		1.000		120	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: R & R Environmental Work Order Number: 2210C50 RcptNo: 1

Received By: Juan Rojas 10/26/2022 7:10:00 AM

Completed By: Sean Livingston 10/26/2022 7:46:21 AM

Reviewed By: JN 10/26/22

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: KPA 10.26.22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.1	Good				

Chain-of-Custody Record

Client: R&R Environmental

Mailing Address: 1505 W. Bullock Ave

Artesia, NM 88210

Phone #: 575.616.9340

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:

☒ Standard ☒ Rush 5-Day

Project Name:

Barry Miller Booster Station

Project #:

Project Manager:

James Carnes

Sampler: James Carnes

On Ice: ☐ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 1.2-0.1=1.1

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2210C50	Analysis Request: Chlorides	TPH	BTEX
10/24/2022	9:00	Soil	S-1 0.5'	Glass Jar/1	Ice/Cool	001	X	X	X
10/24/2022	9:05	Soil	S-2 0.5'	Glass Jar/1	Ice/Cool	002	X	X	X
10/24/2022	9:15	Soil	S-3 0.5'	Glass Jar/1	Ice/Cool	003	X	X	X
10/24/2022	9:20	Soil	S-4 0.5'	Glass Jar/1	Ice/Cool	004	X	X	X
10/24/2022	9:30	Soil	S-5 0.5'	Glass Jar/1	Ice/Cool	005	X	X	X
10/24/2022	9:35	Soil	S-6 0.5'	Glass Jar/1	Ice/Cool	006	X	X	X
10/24/2022	9:40	Soil	S-7 0.5;	Glass Jar/1	Ice/Cool	007	X	X	X

Relinquished by:	Date	Time	Received by:	Via:	Date	Time
	10/25/22	830			10/25/22	830
	10/25/22	1900			10/26/22	7:10

Remarks: Email Results to: james.carnes@aol.com

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

November 11, 2022

James Carnes
R & R Environmental
1505 W. Bullock Ave
Artesia, NM 88210
TEL: (575) 616-9340
FAX:

RE: Barry Miller OrderNo.: 2211156

Dear James Carnes:

Hall Environmental Analysis Laboratory received 19 sample(s) on 11/3/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2211156**
Date Reported: **11/11/2022**

CLIENT: R & R Environmental
Project: Barry Miller
Lab ID: 2211156-001 **Matrix:** SOIL

Client Sample ID: S2A 2'
Collection Date: 11/2/2022 8:00:00 AM
Received Date: 11/3/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	380	60		mg/Kg	20	11/7/2022 9:20:32 PM	71352
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/4/2022 1:44:12 PM	71292
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/4/2022 1:44:12 PM	71292
Surr: DNOP	98.2	21-129		%Rec	1	11/4/2022 1:44:12 PM	71292
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/5/2022 1:24:16 AM	71278
Surr: BFB	87.4	37.7-212		%Rec	1	11/5/2022 1:24:16 AM	71278
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	11/5/2022 1:24:16 AM	71278
Toluene	ND	0.047		mg/Kg	1	11/5/2022 1:24:16 AM	71278
Ethylbenzene	ND	0.047		mg/Kg	1	11/5/2022 1:24:16 AM	71278
Xylenes, Total	ND	0.093		mg/Kg	1	11/5/2022 1:24:16 AM	71278
Surr: 4-Bromofluorobenzene	92.2	70-130		%Rec	1	11/5/2022 1:24:16 AM	71278

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R & R Environmental
Project: Barry Miller
Lab ID: 2211156-002 **Matrix:** SOIL

Client Sample ID: S3A 2'
Collection Date: 11/2/2022 8:05:00 AM
Received Date: 11/3/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	140	60		mg/Kg	20	11/7/2022 9:32:53 PM	71352
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/4/2022 1:54:44 PM	71292
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/4/2022 1:54:44 PM	71292
Surr: DNOP	103	21-129		%Rec	1	11/4/2022 1:54:44 PM	71292
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/5/2022 1:47:37 AM	71278
Surr: BFB	85.9	37.7-212		%Rec	1	11/5/2022 1:47:37 AM	71278
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	11/5/2022 1:47:37 AM	71278
Toluene	ND	0.047		mg/Kg	1	11/5/2022 1:47:37 AM	71278
Ethylbenzene	ND	0.047		mg/Kg	1	11/5/2022 1:47:37 AM	71278
Xylenes, Total	ND	0.094		mg/Kg	1	11/5/2022 1:47:37 AM	71278
Surr: 4-Bromofluorobenzene	91.2	70-130		%Rec	1	11/5/2022 1:47:37 AM	71278

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R & R Environmental
Project: Barry Miller
Lab ID: 2211156-003 **Matrix:** SOIL

Client Sample ID: S4A 2'
Collection Date: 11/2/2022 8:10:00 AM
Received Date: 11/3/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	930	60		mg/Kg	20	11/7/2022 10:09:55 PM	71352
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/4/2022 2:05:19 PM	71292
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/4/2022 2:05:19 PM	71292
Surr: DNOP	95.8	21-129		%Rec	1	11/4/2022 2:05:19 PM	71292
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/5/2022 2:10:56 AM	71278
Surr: BFB	85.9	37.7-212		%Rec	1	11/5/2022 2:10:56 AM	71278
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	11/5/2022 2:10:56 AM	71278
Toluene	ND	0.049		mg/Kg	1	11/5/2022 2:10:56 AM	71278
Ethylbenzene	ND	0.049		mg/Kg	1	11/5/2022 2:10:56 AM	71278
Xylenes, Total	ND	0.098		mg/Kg	1	11/5/2022 2:10:56 AM	71278
Surr: 4-Bromofluorobenzene	91.4	70-130		%Rec	1	11/5/2022 2:10:56 AM	71278

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R & R Environmental
Project: Barry Miller
Lab ID: 2211156-004 **Matrix:** SOIL

Client Sample ID: S5A 2'
Collection Date: 11/2/2022 8:15:00 AM
Received Date: 11/3/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	270	60		mg/Kg	20	11/7/2022 10:22:15 PM	71352
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/4/2022 2:15:52 PM	71292
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/4/2022 2:15:52 PM	71292
Surr: DNOP	94.2	21-129		%Rec	1	11/4/2022 2:15:52 PM	71292
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/5/2022 3:20:55 AM	71278
Surr: BFB	84.3	37.7-212		%Rec	1	11/5/2022 3:20:55 AM	71278
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	11/5/2022 3:20:55 AM	71278
Toluene	ND	0.047		mg/Kg	1	11/5/2022 3:20:55 AM	71278
Ethylbenzene	ND	0.047		mg/Kg	1	11/5/2022 3:20:55 AM	71278
Xylenes, Total	ND	0.095		mg/Kg	1	11/5/2022 3:20:55 AM	71278
Surr: 4-Bromofluorobenzene	90.4	70-130		%Rec	1	11/5/2022 3:20:55 AM	71278

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R & R Environmental
Project: Barry Miller
Lab ID: 2211156-005 **Matrix:** SOIL

Client Sample ID: S6A 2'
Collection Date: 11/2/2022 8:20:00 AM
Received Date: 11/3/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	ND	59		mg/Kg	20	11/7/2022 10:34:36 PM	71352
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/4/2022 2:26:29 PM	71292
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/4/2022 2:26:29 PM	71292
Surr: DNOP	107	21-129		%Rec	1	11/4/2022 2:26:29 PM	71292
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/5/2022 3:44:17 AM	71278
Surr: BFB	83.7	37.7-212		%Rec	1	11/5/2022 3:44:17 AM	71278
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	11/5/2022 3:44:17 AM	71278
Toluene	ND	0.049		mg/Kg	1	11/5/2022 3:44:17 AM	71278
Ethylbenzene	ND	0.049		mg/Kg	1	11/5/2022 3:44:17 AM	71278
Xylenes, Total	ND	0.097		mg/Kg	1	11/5/2022 3:44:17 AM	71278
Surr: 4-Bromofluorobenzene	88.8	70-130		%Rec	1	11/5/2022 3:44:17 AM	71278

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R & R Environmental
Project: Barry Miller
Lab ID: 2211156-006 **Matrix:** SOIL

Client Sample ID: S7A 2'
Collection Date: 11/2/2022 8:25:00 AM
Received Date: 11/3/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	ND	60		mg/Kg	20	11/7/2022 10:46:57 PM	71352
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/4/2022 2:37:05 PM	71292
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/4/2022 2:37:05 PM	71292
Surr: DNOP	99.5	21-129		%Rec	1	11/4/2022 2:37:05 PM	71292
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/5/2022 4:07:34 AM	71278
Surr: BFB	86.0	37.7-212		%Rec	1	11/5/2022 4:07:34 AM	71278
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	11/5/2022 4:07:34 AM	71278
Toluene	ND	0.048		mg/Kg	1	11/5/2022 4:07:34 AM	71278
Ethylbenzene	ND	0.048		mg/Kg	1	11/5/2022 4:07:34 AM	71278
Xylenes, Total	ND	0.097		mg/Kg	1	11/5/2022 4:07:34 AM	71278
Surr: 4-Bromofluorobenzene	91.0	70-130		%Rec	1	11/5/2022 4:07:34 AM	71278

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2211156**
Date Reported: **11/11/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R & R Environmental
Project: Barry Miller
Lab ID: 2211156-007 **Matrix:** SOIL

Client Sample ID: S8A 2'
Collection Date: 11/2/2022 8:30:00 AM
Received Date: 11/3/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	280	60		mg/Kg	20	11/7/2022 10:59:17 PM	71352
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/4/2022 2:47:42 PM	71292
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/4/2022 2:47:42 PM	71292
Surr: DNOP	94.0	21-129		%Rec	1	11/4/2022 2:47:42 PM	71292
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/5/2022 4:30:48 AM	71278
Surr: BFB	83.5	37.7-212		%Rec	1	11/5/2022 4:30:48 AM	71278
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	11/5/2022 4:30:48 AM	71278
Toluene	ND	0.048		mg/Kg	1	11/5/2022 4:30:48 AM	71278
Ethylbenzene	ND	0.048		mg/Kg	1	11/5/2022 4:30:48 AM	71278
Xylenes, Total	ND	0.095		mg/Kg	1	11/5/2022 4:30:48 AM	71278
Surr: 4-Bromofluorobenzene	89.6	70-130		%Rec	1	11/5/2022 4:30:48 AM	71278

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R & R Environmental
Project: Barry Miller
Lab ID: 2211156-008 **Matrix:** SOIL

Client Sample ID: S9A 2'
Collection Date: 11/2/2022 8:35:00 AM
Received Date: 11/3/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	180	60		mg/Kg	20	11/7/2022 11:11:38 PM	71352
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/4/2022 2:58:20 PM	71292
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/4/2022 2:58:20 PM	71292
Surr: DNOP	104	21-129		%Rec	1	11/4/2022 2:58:20 PM	71292
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/5/2022 4:54:01 AM	71278
Surr: BFB	83.5	37.7-212		%Rec	1	11/5/2022 4:54:01 AM	71278
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	11/5/2022 4:54:01 AM	71278
Toluene	ND	0.049		mg/Kg	1	11/5/2022 4:54:01 AM	71278
Ethylbenzene	ND	0.049		mg/Kg	1	11/5/2022 4:54:01 AM	71278
Xylenes, Total	ND	0.098		mg/Kg	1	11/5/2022 4:54:01 AM	71278
Surr: 4-Bromofluorobenzene	89.2	70-130		%Rec	1	11/5/2022 4:54:01 AM	71278

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2211156**
Date Reported: **11/11/2022**

CLIENT: R & R Environmental
Project: Barry Miller
Lab ID: 2211156-009 **Matrix:** SOIL

Client Sample ID: S10A 2'
Collection Date: 11/2/2022 8:40:00 AM
Received Date: 11/3/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	160	60		mg/Kg	20	11/8/2022 11:23:59 AM	71360
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/4/2022 3:08:58 PM	71292
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/4/2022 3:08:58 PM	71292
Surr: DNOP	96.8	21-129		%Rec	1	11/4/2022 3:08:58 PM	71292
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/5/2022 5:17:16 AM	71278
Surr: BFB	81.9	37.7-212		%Rec	1	11/5/2022 5:17:16 AM	71278
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	11/5/2022 5:17:16 AM	71278
Toluene	ND	0.049		mg/Kg	1	11/5/2022 5:17:16 AM	71278
Ethylbenzene	ND	0.049		mg/Kg	1	11/5/2022 5:17:16 AM	71278
Xylenes, Total	ND	0.097		mg/Kg	1	11/5/2022 5:17:16 AM	71278
Surr: 4-Bromofluorobenzene	88.1	70-130		%Rec	1	11/5/2022 5:17:16 AM	71278

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2211156**
Date Reported: **11/11/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R & R Environmental
Project: Barry Miller
Lab ID: 2211156-010 **Matrix:** SOIL

Client Sample ID: S11A 2'
Collection Date: 11/2/2022 8:45:00 AM
Received Date: 11/3/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	450	60		mg/Kg	20	11/8/2022 12:01:01 PM	71360
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/4/2022 3:19:47 PM	71292
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/4/2022 3:19:47 PM	71292
Surr: DNOP	99.2	21-129		%Rec	1	11/4/2022 3:19:47 PM	71292
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/5/2022 5:40:28 AM	71278
Surr: BFB	84.4	37.7-212		%Rec	1	11/5/2022 5:40:28 AM	71278
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	11/5/2022 5:40:28 AM	71278
Toluene	ND	0.049		mg/Kg	1	11/5/2022 5:40:28 AM	71278
Ethylbenzene	ND	0.049		mg/Kg	1	11/5/2022 5:40:28 AM	71278
Xylenes, Total	ND	0.099		mg/Kg	1	11/5/2022 5:40:28 AM	71278
Surr: 4-Bromofluorobenzene	89.4	70-130		%Rec	1	11/5/2022 5:40:28 AM	71278

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R & R Environmental
Project: Barry Miller
Lab ID: 2211156-011 **Matrix:** SOIL

Client Sample ID: S12A 2'
Collection Date: 11/2/2022 8:50:00 AM
Received Date: 11/3/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	180	60		mg/Kg	20	11/8/2022 12:38:04 PM	71360
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/4/2022 3:30:38 PM	71292
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/4/2022 3:30:38 PM	71292
Surr: DNOP	86.4	21-129		%Rec	1	11/4/2022 3:30:38 PM	71292
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/5/2022 6:03:41 AM	71278
Surr: BFB	84.2	37.7-212		%Rec	1	11/5/2022 6:03:41 AM	71278
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	11/5/2022 6:03:41 AM	71278
Toluene	ND	0.047		mg/Kg	1	11/5/2022 6:03:41 AM	71278
Ethylbenzene	ND	0.047		mg/Kg	1	11/5/2022 6:03:41 AM	71278
Xylenes, Total	ND	0.093		mg/Kg	1	11/5/2022 6:03:41 AM	71278
Surr: 4-Bromofluorobenzene	89.8	70-130		%Rec	1	11/5/2022 6:03:41 AM	71278

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R & R Environmental
Project: Barry Miller
Lab ID: 2211156-012 **Matrix:** SOIL

Client Sample ID: S13A 2'
Collection Date: 11/2/2022 8:55:00 AM
Received Date: 11/3/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	340	60		mg/Kg	20	11/8/2022 1:15:05 PM	71360
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/4/2022 3:41:26 PM	71292
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/4/2022 3:41:26 PM	71292
Surr: DNOP	81.5	21-129		%Rec	1	11/4/2022 3:41:26 PM	71292
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/5/2022 6:26:56 AM	71278
Surr: BFB	84.2	37.7-212		%Rec	1	11/5/2022 6:26:56 AM	71278
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	11/5/2022 6:26:56 AM	71278
Toluene	ND	0.048		mg/Kg	1	11/5/2022 6:26:56 AM	71278
Ethylbenzene	ND	0.048		mg/Kg	1	11/5/2022 6:26:56 AM	71278
Xylenes, Total	ND	0.096		mg/Kg	1	11/5/2022 6:26:56 AM	71278
Surr: 4-Bromofluorobenzene	89.6	70-130		%Rec	1	11/5/2022 6:26:56 AM	71278

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R & R Environmental
Project: Barry Miller
Lab ID: 2211156-013 **Matrix:** SOIL

Client Sample ID: S14A 2'
Collection Date: 11/2/2022 9:00:00 AM
Received Date: 11/3/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	ND	60		mg/Kg	20	11/8/2022 1:27:27 PM	71360
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/4/2022 3:52:13 PM	71292
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/4/2022 3:52:13 PM	71292
Surr: DNOP	88.2	21-129		%Rec	1	11/4/2022 3:52:13 PM	71292
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/5/2022 6:50:10 AM	71278
Surr: BFB	84.2	37.7-212		%Rec	1	11/5/2022 6:50:10 AM	71278
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	11/5/2022 6:50:10 AM	71278
Toluene	ND	0.048		mg/Kg	1	11/5/2022 6:50:10 AM	71278
Ethylbenzene	ND	0.048		mg/Kg	1	11/5/2022 6:50:10 AM	71278
Xylenes, Total	ND	0.096		mg/Kg	1	11/5/2022 6:50:10 AM	71278
Surr: 4-Bromofluorobenzene	89.1	70-130		%Rec	1	11/5/2022 6:50:10 AM	71278

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R & R Environmental
Project: Barry Miller
Lab ID: 2211156-014 **Matrix:** SOIL

Client Sample ID: S15A 2'
Collection Date: 11/2/2022 9:05:00 AM
Received Date: 11/3/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	ND	60		mg/Kg	20	11/8/2022 1:39:48 PM	71360
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/7/2022 11:44:13 PM	71298
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/7/2022 11:44:13 PM	71298
Surr: DNOP	108	21-129		%Rec	1	11/7/2022 11:44:13 PM	71298
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/7/2022 10:39:00 AM	71295
Surr: BFB	104	37.7-212		%Rec	1	11/7/2022 10:39:00 AM	71295
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.024		mg/Kg	1	11/7/2022 10:39:00 AM	71295
Toluene	ND	0.048		mg/Kg	1	11/7/2022 10:39:00 AM	71295
Ethylbenzene	ND	0.048		mg/Kg	1	11/7/2022 10:39:00 AM	71295
Xylenes, Total	ND	0.095		mg/Kg	1	11/7/2022 10:39:00 AM	71295
Surr: 4-Bromofluorobenzene	114	70-130		%Rec	1	11/7/2022 10:39:00 AM	71295

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2211156**
Date Reported: **11/11/2022**

CLIENT: R & R Environmental
Project: Barry Miller
Lab ID: 2211156-015 **Matrix:** SOIL

Client Sample ID: S16A 2'
Collection Date: 11/2/2022 9:10:00 AM
Received Date: 11/3/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	700	60		mg/Kg	20	11/8/2022 1:52:09 PM	71360
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/8/2022 12:15:57 AM	71298
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/8/2022 12:15:57 AM	71298
Surr: DNOP	82.5	21-129		%Rec	1	11/8/2022 12:15:57 AM	71298
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/7/2022 11:39:00 AM	71295
Surr: BFB	101	37.7-212		%Rec	1	11/7/2022 11:39:00 AM	71295
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.025		mg/Kg	1	11/7/2022 11:39:00 AM	71295
Toluene	ND	0.049		mg/Kg	1	11/7/2022 11:39:00 AM	71295
Ethylbenzene	ND	0.049		mg/Kg	1	11/7/2022 11:39:00 AM	71295
Xylenes, Total	ND	0.098		mg/Kg	1	11/7/2022 11:39:00 AM	71295
Surr: 4-Bromofluorobenzene	114	70-130		%Rec	1	11/7/2022 11:39:00 AM	71295

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R & R Environmental
Project: Barry Miller
Lab ID: 2211156-016 **Matrix:** SOIL

Client Sample ID: S17A 2'
Collection Date: 11/2/2022 9:15:00 AM
Received Date: 11/3/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	250	59		mg/Kg	20	11/8/2022 2:04:30 PM	71360
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/8/2022 12:26:33 AM	71298
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/8/2022 12:26:33 AM	71298
Surr: DNOP	88.2	21-129		%Rec	1	11/8/2022 12:26:33 AM	71298
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/7/2022 12:38:00 PM	71295
Surr: BFB	91.3	37.7-212		%Rec	1	11/7/2022 12:38:00 PM	71295
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.024		mg/Kg	1	11/7/2022 12:38:00 PM	71295
Toluene	ND	0.049		mg/Kg	1	11/7/2022 12:38:00 PM	71295
Ethylbenzene	ND	0.049		mg/Kg	1	11/7/2022 12:38:00 PM	71295
Xylenes, Total	ND	0.097		mg/Kg	1	11/7/2022 12:38:00 PM	71295
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	1	11/7/2022 12:38:00 PM	71295

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R & R Environmental
Project: Barry Miller
Lab ID: 2211156-017 **Matrix:** SOIL

Client Sample ID: S18A 2'
Collection Date: 11/2/2022 9:00:00 AM
Received Date: 11/3/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	310	60		mg/Kg	20	11/8/2022 2:16:50 PM	71360
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/8/2022 12:37:11 AM	71298
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/8/2022 12:37:11 AM	71298
Surr: DNOP	91.7	21-129		%Rec	1	11/8/2022 12:37:11 AM	71298
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/7/2022 12:57:00 PM	71295
Surr: BFB	96.4	37.7-212		%Rec	1	11/7/2022 12:57:00 PM	71295
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.024		mg/Kg	1	11/7/2022 12:57:00 PM	71295
Toluene	ND	0.049		mg/Kg	1	11/7/2022 12:57:00 PM	71295
Ethylbenzene	ND	0.049		mg/Kg	1	11/7/2022 12:57:00 PM	71295
Xylenes, Total	ND	0.098		mg/Kg	1	11/7/2022 12:57:00 PM	71295
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	11/7/2022 12:57:00 PM	71295

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2211156**
Date Reported: **11/11/2022**

CLIENT: R & R Environmental
Project: Barry Miller
Lab ID: 2211156-018 **Matrix:** SOIL

Client Sample ID: S19A 2'
Collection Date: 11/2/2022 9:25:00 AM
Received Date: 11/3/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	660	60		mg/Kg	20	11/8/2022 2:29:11 PM	71360
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/8/2022 12:47:48 AM	71298
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/8/2022 12:47:48 AM	71298
Surr: DNOP	92.1	21-129		%Rec	1	11/8/2022 12:47:48 AM	71298
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/7/2022 1:17:00 PM	71295
Surr: BFB	96.7	37.7-212		%Rec	1	11/7/2022 1:17:00 PM	71295
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.024		mg/Kg	1	11/7/2022 1:17:00 PM	71295
Toluene	ND	0.048		mg/Kg	1	11/7/2022 1:17:00 PM	71295
Ethylbenzene	ND	0.048		mg/Kg	1	11/7/2022 1:17:00 PM	71295
Xylenes, Total	ND	0.096		mg/Kg	1	11/7/2022 1:17:00 PM	71295
Surr: 4-Bromofluorobenzene	111	70-130		%Rec	1	11/7/2022 1:17:00 PM	71295

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R & R Environmental
Project: Barry Miller
Lab ID: 2211156-019 **Matrix:** SOIL

Client Sample ID: S20A 2'
Collection Date: 11/2/2022 9:30:00 AM
Received Date: 11/3/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	370	60		mg/Kg	20	11/8/2022 2:41:32 PM	71360
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/8/2022 12:58:26 AM	71298
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/8/2022 12:58:26 AM	71298
Surr: DNOP	90.4	21-129		%Rec	1	11/8/2022 12:58:26 AM	71298
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/7/2022 1:37:00 PM	71295
Surr: BFB	99.6	37.7-212		%Rec	1	11/7/2022 1:37:00 PM	71295
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.024		mg/Kg	1	11/7/2022 1:37:00 PM	71295
Toluene	ND	0.047		mg/Kg	1	11/7/2022 1:37:00 PM	71295
Ethylbenzene	ND	0.047		mg/Kg	1	11/7/2022 1:37:00 PM	71295
Xylenes, Total	ND	0.095		mg/Kg	1	11/7/2022 1:37:00 PM	71295
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	1	11/7/2022 1:37:00 PM	71295

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2211156**

11-Nov-22

Client: R & R Environmental

Project: Barry Miller

Sample ID: **MB-71352**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **71352**	RunNo: **92399**							
Prep Date: **11/7/2022**	Analysis Date: **11/7/2022**	SeqNo: **3320666**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-71352**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **71352**	RunNo: **92399**							
Prep Date: **11/7/2022**	Analysis Date: **11/7/2022**	SeqNo: **3320667**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	99.5	90	110			

Sample ID: **MB-71360**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **71360**	RunNo: **92424**							
Prep Date: **11/8/2022**	Analysis Date: **11/8/2022**	SeqNo: **3321854**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-71360**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **71360**	RunNo: **92424**							
Prep Date: **11/8/2022**	Analysis Date: **11/8/2022**	SeqNo: **3321855**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.9	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2211156**

11-Nov-22

Client: R & R Environmental

Project: Barry Miller

Sample ID: **LCS-71292**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **71292**	RunNo: **92341**
Prep Date: **11/3/2022**	Analysis Date: **11/4/2022**	SeqNo: **3318007** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	15	50.00	0	87.5	64.4	127			
Surr: DNOP	5.1		5.000		102	21	129			

Sample ID: **MB-71292**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **71292**	RunNo: **92341**
Prep Date: **11/3/2022**	Analysis Date: **11/4/2022**	SeqNo: **3318008** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		104	21	129			

Sample ID: **2211156-014AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **S15A 2'**	Batch ID: **71298**	RunNo: **92379**
Prep Date: **11/4/2022**	Analysis Date: **11/7/2022**	SeqNo: **3320971** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	15	49.46	0	98.5	36.1	154			
Surr: DNOP	5.7		4.946		115	21	129			

Sample ID: **2211156-014AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **S15A 2'**	Batch ID: **71298**	RunNo: **92379**
Prep Date: **11/4/2022**	Analysis Date: **11/8/2022**	SeqNo: **3320972** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	15	49.26	0	87.0	36.1	154	12.8	33.9	
Surr: DNOP	5.0		4.926		101	21	129	0	0	

Sample ID: **LCS-71298**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **71298**	RunNo: **92379**
Prep Date: **11/4/2022**	Analysis Date: **11/7/2022**	SeqNo: **3320993** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	15	50.00	0	97.6	64.4	127			
Surr: DNOP	5.8		5.000		117	21	129			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2211156**

11-Nov-22

Client: R & R Environmental

Project: Barry Miller

Sample ID: **MB-71298**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **71298**	RunNo: **92379**
Prep Date: **11/4/2022**	Analysis Date: **11/7/2022**	SeqNo: **3320995** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		103	21	129			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2211156**

11-Nov-22

Client: R & R Environmental

Project: Barry Miller

Sample ID: **mb-71278**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **71278**	RunNo: **92355**							
Prep Date: **11/3/2022**	Analysis Date: **11/4/2022**	SeqNo: **3318918**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	870		1000		87.3	37.7	212			

Sample ID: **lcs-71278**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **71278**	RunNo: **92355**							
Prep Date: **11/3/2022**	Analysis Date: **11/4/2022**	SeqNo: **3318919**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	96.7	72.3	137			
Surr: BFB	1900		1000		187	37.7	212			

Sample ID: **lcs-71295**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **71295**	RunNo: **92401**							
Prep Date: **11/4/2022**	Analysis Date: **11/7/2022**	SeqNo: **3320729**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.3	72.3	137			
Surr: BFB	2100		1000		206	37.7	212			

Sample ID: **mb-71295**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **71295**	RunNo: **92401**							
Prep Date: **11/4/2022**	Analysis Date: **11/7/2022**	SeqNo: **3320730**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1500		1000		149	37.7	212			

Sample ID: **2211156-014ams**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **S15A 2'**	Batch ID: **71295**	RunNo: **92401**							
Prep Date: **11/4/2022**	Analysis Date: **11/7/2022**	SeqNo: **3320732**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.9	24.49	0	93.2	70	130			
Surr: BFB	2100		979.4		217	37.7	212			S

Sample ID: **2211156-014amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **S15A 2'**	Batch ID: **71295**	RunNo: **92401**							
Prep Date: **11/4/2022**	Analysis Date: **11/7/2022**	SeqNo: **3320733**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2211156**

11-Nov-22

Client: R & R Environmental

Project: Barry Miller

Sample ID: **2211156-014amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **S15A 2'**	Batch ID: **71295**	RunNo: **92401**
Prep Date: **11/4/2022**	Analysis Date: **11/7/2022**	SeqNo: **3320733** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.8	24.11	0	94.9	70	130	0.231	20	
Surr: BFB	2200		964.3		225	37.7	212	0	0	S

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2211156**

11-Nov-22

Client: R & R Environmental

Project: Barry Miller

Sample ID: **mb-71278**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **71278**	RunNo: **92355**
Prep Date: **11/3/2022**	Analysis Date: **11/4/2022**	SeqNo: **3318970** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.91		1.000		91.4	70	130			

Sample ID: **LCS-71278**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **71278**	RunNo: **92355**
Prep Date: **11/3/2022**	Analysis Date: **11/4/2022**	SeqNo: **3318971** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	1.000	0	98.1	80	120			
Toluene	1.0	0.050	1.000	0	99.6	80	120			
Ethylbenzene	0.99	0.050	1.000	0	98.7	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.8	80	120			
Surr: 4-Bromofluorobenzene	0.94		1.000		93.7	70	130			

Sample ID: **lcs-71295**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **71295**	RunNo: **92401**
Prep Date: **11/4/2022**	Analysis Date: **11/7/2022**	SeqNo: **3320756** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	111	80	120			
Toluene	1.1	0.050	1.000	0	113	80	120			
Ethylbenzene	1.1	0.050	1.000	0	114	80	120			
Xylenes, Total	3.4	0.10	3.000	0	113	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		109	70	130			

Sample ID: **mb-71295**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **71295**	RunNo: **92401**
Prep Date: **11/4/2022**	Analysis Date: **11/7/2022**	SeqNo: **3320757** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.7		1.000		169	70	130			S

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2211156**

11-Nov-22

Client: R & R Environmental

Project: Barry Miller

Sample ID: **2211156-015ams**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**							
Client ID: **S16A 2'**	Batch ID: **71295**	RunNo: **92401**							
Prep Date: **11/4/2022**	Analysis Date: **11/7/2022**	SeqNo: **3320760**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.024	0.9718	0	112	68.8	120			
Toluene	1.1	0.049	0.9718	0	114	73.6	124			
Ethylbenzene	1.1	0.049	0.9718	0	117	72.7	129			
Xylenes, Total	3.4	0.097	2.915	0	117	75.7	126			
Surr: 4-Bromofluorobenzene	1.1		0.9718		115	70	130			

Sample ID: **2211156-015amsd**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**							
Client ID: **S16A 2'**	Batch ID: **71295**	RunNo: **92401**							
Prep Date: **11/4/2022**	Analysis Date: **11/7/2022**	SeqNo: **3320761**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	0.9852	0	111	68.8	120	0.682	20	
Toluene	1.1	0.049	0.9852	0	114	73.6	124	1.54	20	
Ethylbenzene	1.1	0.049	0.9852	0	114	72.7	129	1.44	20	
Xylenes, Total	3.4	0.099	2.956	0	114	75.7	126	1.40	20	
Surr: 4-Bromofluorobenzene	1.1		0.9852		108	70	130	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: R & R Environmental | Work Order Number: 2211156 | RcptNo: 1

Received By: Juan Rojas 11/3/2022 7:30:00 AM

Completed By: Tracy Casarrubias 11/3/2022 8:36:35 AM

Reviewed By: KPa 11-3-22

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: JU 11/3/22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.5	Good	Yes			

Chain-of-Custody Record

Client: R+R ENVIRONMENTAL

Mailing Address: 105 Greene
Carlsbad NM

Phone #: 575 247-1104

email or Fax#: James@RK Environmental.net

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time:
☑ Standard ☒ Rush 5 DAY

Project Name: Barry Miller

Project #: 30000.005

Project Manager: James Cakes

Sampler: A. Parra

On Ice: ☐ Yes ☐ No

# of Coolers: 1

Cooler Temp (including CF): 1.9+0.1=1.5 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2211156	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
11/2	8:00		S-2A 2'	4oz-1	Ice Cool	001										
	8:05		S-3A 2'			002										
	8:10		S 4A 2'			003										
	8:15		S 5A 2'			004										
	8:20		S 6A 2'			005										
	8:25		S 7A 2'			006										
	8:30		S 8A 2'			007										
	8:35		S 9A 2'			008										
	8:40		S 10A 2'			009										
	8:45		S 11A 2'			010										
	8:50		S 12A 2'			011										
	8:55		S 13A 2'			012										

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
					11/2/22	1130
11/2/22	1900			courier	11/3/22	7:30

Remarks:

1 of 2

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Chain-of-Custody Record

Client: L+R Environmental

Mailing Address: 165 Greene
Carlsbad

Phone #: 575.247.1104

email or Fax#: James@LREnvironmental.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush 5 DAY

Project Name: Becky Miller

Project #: 30000.005

Project Manager: James Carnes

Sampler: L. Baker

On Ice: ☐ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 1.4+0.1=1.5(°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2211156	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
11/2	9:00		S.14A 2'	4oz-1	Ice/cool	013										
	9:05		S.15A 2'			014										
	9:10		S.16A 2'			015										
	9:15		S.17A 2'			016										
	9:20		S.18A 2'			017										
	925		S.19A 2'			018										
	930		S.20A 2'			019										

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
					11/2/22	1130
11/2/22	1400			courier	11/3/22	7:30

Remarks:

2 of 2

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

November 11, 2022

James Carnes
R & R Environmental
1505 W. Bullock Ave
Artesia, NM 88210
TEL: (575) 616-9340
FAX:

RE: Berry Miller OrderNo.: 2211253

Dear James Carnes:

Hall Environmental Analysis Laboratory received 10 sample(s) on 11/4/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order: **2211253**
Date Reported: **11/11/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R & R Environmental
Project: Berry Miller
Lab Order: 2211253

Lab ID: 2211253-001 **Collection Date:** 11/3/2022 8:00:00 AM
Client Sample ID: SW1 2' **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: **NAI**
Chloride	ND	60		mg/Kg	20	11/9/2022 1:29:53 PM	71379
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: **DGH**
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/8/2022 1:04:20 PM	71310
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/8/2022 1:04:20 PM	71310
Surr: DNOP	115	21-129		%Rec	1	11/8/2022 1:04:20 PM	71310
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/7/2022 9:33:34 PM	71306
Surr: BFB	86.5	37.7-212		%Rec	1	11/7/2022 9:33:34 PM	71306
EPA METHOD 8021B: VOLATILES							Analyst: **NSB**
Benzene	ND	0.023		mg/Kg	1	11/7/2022 9:33:34 PM	71306
Toluene	ND	0.047		mg/Kg	1	11/7/2022 9:33:34 PM	71306
Ethylbenzene	ND	0.047		mg/Kg	1	11/7/2022 9:33:34 PM	71306
Xylenes, Total	ND	0.093		mg/Kg	1	11/7/2022 9:33:34 PM	71306
Surr: 4-Bromofluorobenzene	91.2	70-130		%Rec	1	11/7/2022 9:33:34 PM	71306

Lab ID: 2211253-002 **Collection Date:** 11/3/2022 8:05:00 AM
Client Sample ID: SW2 2' **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: **NAI**
Chloride	ND	61		mg/Kg	20	11/9/2022 2:31:55 PM	71379
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: **DGH**
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/8/2022 1:15:07 PM	71310
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/8/2022 1:15:07 PM	71310
Surr: DNOP	108	21-129		%Rec	1	11/8/2022 1:15:07 PM	71310
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/7/2022 9:56:50 PM	71306
Surr: BFB	87.2	37.7-212		%Rec	1	11/7/2022 9:56:50 PM	71306
EPA METHOD 8021B: VOLATILES							Analyst: **NSB**
Benzene	ND	0.024		mg/Kg	1	11/7/2022 9:56:50 PM	71306
Toluene	ND	0.049		mg/Kg	1	11/7/2022 9:56:50 PM	71306
Ethylbenzene	ND	0.049		mg/Kg	1	11/7/2022 9:56:50 PM	71306
Xylenes, Total	ND	0.097		mg/Kg	1	11/7/2022 9:56:50 PM	71306
Surr: 4-Bromofluorobenzene	92.5	70-130		%Rec	1	11/7/2022 9:56:50 PM	71306

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order: **2211253**
Date Reported: **11/11/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R & R Environmental
Project: Berry Miller
Lab Order: 2211253

Lab ID: 2211253-003
Client Sample ID: SW3 2'
Collection Date: 11/3/2022 8:10:00 AM
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: **NAI**
Chloride	ND	60		mg/Kg	20	11/9/2022 3:09:07 PM	71379
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: **DGH**
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/8/2022 1:36:35 PM	71310
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/8/2022 1:36:35 PM	71310
Surr: DNOP	109	21-129		%Rec	1	11/8/2022 1:36:35 PM	71310
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/7/2022 10:20:26 PM	71306
Surr: BFB	87.3	37.7-212		%Rec	1	11/7/2022 10:20:26 PM	71306
EPA METHOD 8021B: VOLATILES							Analyst: **NSB**
Benzene	ND	0.024		mg/Kg	1	11/7/2022 10:20:26 PM	71306
Toluene	ND	0.049		mg/Kg	1	11/7/2022 10:20:26 PM	71306
Ethylbenzene	ND	0.049		mg/Kg	1	11/7/2022 10:20:26 PM	71306
Xylenes, Total	ND	0.098		mg/Kg	1	11/7/2022 10:20:26 PM	71306
Surr: 4-Bromofluorobenzene	93.1	70-130		%Rec	1	11/7/2022 10:20:26 PM	71306

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R & R Environmental **Lab Order:** 2211253
Project: Berry Miller

Lab ID: 2211253-004 **Collection Date:** 11/3/2022 8:15:00 AM
Client Sample ID: SW4 2' **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: **JMT**
Chloride	ND	60		mg/Kg	20	11/9/2022 1:42:27 PM	71380
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: **DGH**
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/8/2022 1:47:20 PM	71310
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/8/2022 1:47:20 PM	71310
Surr: DNOP	109	21-129		%Rec	1	11/8/2022 1:47:20 PM	71310
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/7/2022 10:44:01 PM	71306
Surr: BFB	86.3	37.7-212		%Rec	1	11/7/2022 10:44:01 PM	71306
EPA METHOD 8021B: VOLATILES							Analyst: **NSB**
Benzene	ND	0.024		mg/Kg	1	11/7/2022 10:44:01 PM	71306
Toluene	ND	0.049		mg/Kg	1	11/7/2022 10:44:01 PM	71306
Ethylbenzene	ND	0.049		mg/Kg	1	11/7/2022 10:44:01 PM	71306
Xylenes, Total	ND	0.097		mg/Kg	1	11/7/2022 10:44:01 PM	71306
Surr: 4-Bromofluorobenzene	91.1	70-130		%Rec	1	11/7/2022 10:44:01 PM	71306

Lab ID: 2211253-005 **Collection Date:** 11/3/2022 8:20:00 AM
Client Sample ID: SW5 2' **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: **JMT**
Chloride	64	60		mg/Kg	20	11/9/2022 2:44:10 PM	71380
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: **DGH**
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/8/2022 1:58:05 PM	71310
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/8/2022 1:58:05 PM	71310
Surr: DNOP	112	21-129		%Rec	1	11/8/2022 1:58:05 PM	71310
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/7/2022 11:07:28 PM	71306
Surr: BFB	87.5	37.7-212		%Rec	1	11/7/2022 11:07:28 PM	71306
EPA METHOD 8021B: VOLATILES							Analyst: **NSB**
Benzene	ND	0.024		mg/Kg	1	11/7/2022 11:07:28 PM	71306
Toluene	ND	0.047		mg/Kg	1	11/7/2022 11:07:28 PM	71306
Ethylbenzene	ND	0.047		mg/Kg	1	11/7/2022 11:07:28 PM	71306
Xylenes, Total	ND	0.095		mg/Kg	1	11/7/2022 11:07:28 PM	71306
Surr: 4-Bromofluorobenzene	92.8	70-130		%Rec	1	11/7/2022 11:07:28 PM	71306

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R & R Environmental
Project: Berry Miller
Lab Order: 2211253

Lab ID: 2211253-006
Client Sample ID: SW6 2'
Collection Date: 11/3/2022 8:25:00 AM
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	11/9/2022 3:21:12 PM	71380
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/8/2022 2:30:14 PM	71310
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/8/2022 2:30:14 PM	71310
Surr: DNOP	110	21-129		%Rec	1	11/8/2022 2:30:14 PM	71310
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/7/2022 11:54:29 PM	71306
Surr: BFB	85.3	37.7-212		%Rec	1	11/7/2022 11:54:29 PM	71306
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	11/7/2022 11:54:29 PM	71306
Toluene	ND	0.048		mg/Kg	1	11/7/2022 11:54:29 PM	71306
Ethylbenzene	ND	0.048		mg/Kg	1	11/7/2022 11:54:29 PM	71306
Xylenes, Total	ND	0.097		mg/Kg	1	11/7/2022 11:54:29 PM	71306
Surr: 4-Bromofluorobenzene	90.6	70-130		%Rec	1	11/7/2022 11:54:29 PM	71306

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R & R Environmental **Lab Order:** 2211253
Project: Berry Miller

Lab ID: 2211253-007 **Collection Date:** 11/3/2022 8:30:00 AM
Client Sample ID: BG1 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: **NAI**
Chloride	ND	61		mg/Kg	20	11/9/2022 6:20:46 PM	71398
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: **DGH**
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/8/2022 2:40:59 PM	71310
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/8/2022 2:40:59 PM	71310
Surr: DNOP	97.1	21-129		%Rec	1	11/8/2022 2:40:59 PM	71310
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/8/2022 12:18:02 AM	71306
Surr: BFB	87.9	37.7-212		%Rec	1	11/8/2022 12:18:02 AM	71306
EPA METHOD 8021B: VOLATILES							Analyst: **NSB**
Benzene	ND	0.024		mg/Kg	1	11/8/2022 12:18:02 AM	71306
Toluene	ND	0.047		mg/Kg	1	11/8/2022 12:18:02 AM	71306
Ethylbenzene	ND	0.047		mg/Kg	1	11/8/2022 12:18:02 AM	71306
Xylenes, Total	ND	0.094		mg/Kg	1	11/8/2022 12:18:02 AM	71306
Surr: 4-Bromofluorobenzene	93.1	70-130		%Rec	1	11/8/2022 12:18:02 AM	71306

Lab ID: 2211253-008 **Collection Date:** 11/3/2022 8:35:00 AM
Client Sample ID: BG2 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: **NAI**
Chloride	ND	60		mg/Kg	20	11/9/2022 6:33:10 PM	71398
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: **DGH**
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/8/2022 2:51:44 PM	71310
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/8/2022 2:51:44 PM	71310
Surr: DNOP	89.7	21-129		%Rec	1	11/8/2022 2:51:44 PM	71310
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/8/2022 12:41:28 AM	71306
Surr: BFB	82.9	37.7-212		%Rec	1	11/8/2022 12:41:28 AM	71306
EPA METHOD 8021B: VOLATILES							Analyst: **NSB**
Benzene	ND	0.025		mg/Kg	1	11/8/2022 12:41:28 AM	71306
Toluene	ND	0.049		mg/Kg	1	11/8/2022 12:41:28 AM	71306
Ethylbenzene	ND	0.049		mg/Kg	1	11/8/2022 12:41:28 AM	71306
Xylenes, Total	ND	0.099		mg/Kg	1	11/8/2022 12:41:28 AM	71306
Surr: 4-Bromofluorobenzene	87.5	70-130		%Rec	1	11/8/2022 12:41:28 AM	71306

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R & R Environmental
Project: Berry Miller
Lab Order: 2211253

Lab ID: 2211253-009
Client Sample ID: BG3
Collection Date: 11/3/2022 8:40:00 AM
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	ND	61		mg/Kg	20	11/9/2022 6:45:35 PM	71398
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/8/2022 3:02:28 PM	71310
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/8/2022 3:02:28 PM	71310
Surr: DNOP	87.8	21-129		%Rec	1	11/8/2022 3:02:28 PM	71310
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/8/2022 1:05:01 AM	71306
Surr: BFB	85.9	37.7-212		%Rec	1	11/8/2022 1:05:01 AM	71306
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	11/8/2022 1:05:01 AM	71306
Toluene	ND	0.048		mg/Kg	1	11/8/2022 1:05:01 AM	71306
Ethylbenzene	ND	0.048		mg/Kg	1	11/8/2022 1:05:01 AM	71306
Xylenes, Total	ND	0.096		mg/Kg	1	11/8/2022 1:05:01 AM	71306
Surr: 4-Bromofluorobenzene	90.2	70-130		%Rec	1	11/8/2022 1:05:01 AM	71306

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R & R Environmental
Project: Berry Miller
Lab Order: 2211253

Lab ID: 2211253-010
Client Sample ID: BG4
Collection Date: 11/3/2022 8:45:00 AM
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	ND	60		mg/Kg	20	11/9/2022 6:57:59 PM	71398
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/8/2022 3:13:15 PM	71310
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/8/2022 3:13:15 PM	71310
Surr: DNOP	93.8	21-129		%Rec	1	11/8/2022 3:13:15 PM	71310
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/8/2022 1:28:23 AM	71306
Surr: BFB	87.8	37.7-212		%Rec	1	11/8/2022 1:28:23 AM	71306
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	11/8/2022 1:28:23 AM	71306
Toluene	ND	0.049		mg/Kg	1	11/8/2022 1:28:23 AM	71306
Ethylbenzene	ND	0.049		mg/Kg	1	11/8/2022 1:28:23 AM	71306
Xylenes, Total	ND	0.098		mg/Kg	1	11/8/2022 1:28:23 AM	71306
Surr: 4-Bromofluorobenzene	93.9	70-130		%Rec	1	11/8/2022 1:28:23 AM	71306

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2211253**

11-Nov-22

Client: R & R Environmental

Project: Berry Miller

Sample ID: **MB-71380**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **71380**	RunNo: **92445**							
Prep Date: **11/9/2022**	Analysis Date: **11/9/2022**	SeqNo: **3323758**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-71380**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **71380**	RunNo: **92445**							
Prep Date: **11/9/2022**	Analysis Date: **11/9/2022**	SeqNo: **3323759**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.6	90	110			

Sample ID: **MB-71379**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **71379**	RunNo: **92446**							
Prep Date: **11/9/2022**	Analysis Date: **11/9/2022**	SeqNo: **3323828**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-71379**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **71379**	RunNo: **92446**							
Prep Date: **11/9/2022**	Analysis Date: **11/9/2022**	SeqNo: **3323829**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.0	90	110			

Sample ID: **MB-71398**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **71398**	RunNo: **92446**							
Prep Date: **11/9/2022**	Analysis Date: **11/9/2022**	SeqNo: **3323859**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-71398**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **71398**	RunNo: **92446**							
Prep Date: **11/9/2022**	Analysis Date: **11/9/2022**	SeqNo: **3323860**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.8	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2211253**

11-Nov-22

Client: R & R Environmental

Project: Berry Miller

Sample ID: **LCS-71310**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **71310**	RunNo: **92379**
Prep Date: **11/4/2022**	Analysis Date: **11/8/2022**	SeqNo: **3320994** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	15	50.00	0	88.3	64.4	127			
Surr: DNOP	4.8		5.000		96.4	21	129			

Sample ID: **MB-71310**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **71310**	RunNo: **92379**
Prep Date: **11/4/2022**	Analysis Date: **11/8/2022**	SeqNo: **3320996** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.7		10.00		87.0	21	129			

Sample ID: **2211253-005AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **SW5 2'**	Batch ID: **71310**	RunNo: **92415**
Prep Date: **11/4/2022**	Analysis Date: **11/8/2022**	SeqNo: **3321380** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	14	48.17	0	101	36.1	154			
Surr: DNOP	6.1		4.817		128	21	129			

Sample ID: **2211253-005AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **SW5 2'**	Batch ID: **71310**	RunNo: **92415**
Prep Date: **11/4/2022**	Analysis Date: **11/8/2022**	SeqNo: **3321381** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	14	47.26	0	96.1	36.1	154	7.17	33.9	
Surr: DNOP	5.8		4.726		123	21	129	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2211253**

11-Nov-22

Client: R & R Environmental

Project: Berry Miller

Sample ID: **mb-71306**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **71306**	RunNo: **92384**
Prep Date: **11/4/2022**	Analysis Date: **11/7/2022**	SeqNo: **3319942** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	860		1000		85.9	37.7	212			

Sample ID: **lcs-71306**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **71306**	RunNo: **92384**
Prep Date: **11/4/2022**	Analysis Date: **11/7/2022**	SeqNo: **3319943** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.8	72.3	137			
Surr: BFB	1800		1000		183	37.7	212			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2211253**

11-Nov-22

Client: R & R Environmental

Project: Berry Miller

Sample ID: **mb-71306**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **71306**	RunNo: **92384**
Prep Date: **11/4/2022**	Analysis Date: **11/7/2022**	SeqNo: **3319981** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.90		1.000		90.4	70	130			

Sample ID: **LCS-71306**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **71306**	RunNo: **92384**
Prep Date: **11/4/2022**	Analysis Date: **11/7/2022**	SeqNo: **3319982** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	1.000	0	97.0	80	120			
Toluene	0.99	0.050	1.000	0	98.6	80	120			
Ethylbenzene	0.98	0.050	1.000	0	98.1	80	120			
Xylenes, Total	3.0	0.10	3.000	0	98.9	80	120			
Surr: 4-Bromofluorobenzene	0.95		1.000		94.5	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: R & R Environmental | Work Order Number: 2211253 | RcptNo: 1

Received By: Tracy Casarrubias 11/4/2022 7:30:00 AM

Completed By: Tracy Casarrubias 11/4/2022 7:38:08 AM

Reviewed By: JN 11/4/22

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: (<2 or >12 unless noted)

Adjusted?

Checked by: KPA 11.4.22 ~~11.3.22~~ 11.4.22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:

By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.5	Good	Yes			

Chain-of-Custody Record

Client: R&R Environmental

Mailing Address: 105 Grace
Carlsbad NM

Phone #: 575 247.1106

email or Fax#: James@RandREnvironmental.net

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush 5 DAY

Project Name: Berry Miller

Project #: 30000.005

Project Manager: James Cramos

Sampler: A. Owen

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp (Including CF): 4.6 - 0.1 = 4.5 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2211253	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
11/3	8:00		SW.1 2'	Glass-1	Ice	001										
	8:05		SW.2 2'			002										
	810		SW.3 2'			003										
	815		SW.4 2'			004										
	820		SW.5 2'			005										
	8:25		SW 6 2'			006										
	8:30		BG 1			007										
	835		BG 2			008										
	8:40		BG 3			009										
↓	8:45		BG 4	↓	↓	010	↓	↓					↓			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
			[signature]		11/3/22	1430
Date: 11/3/22	Time: 1900	Relinquished by: [signature]	Received by: [signature]	Via: Courier	Date 11/4/22	Time 7:20

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
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November 11, 2022

James Carnes
R & R Environmental
1505 W. Bullock Ave
Artesia, NM 88210
TEL: (575) 616-9340
FAX:

RE: Barry Miller OrderNo.: 2211248

Dear James Carnes:

Hall Environmental Analysis Laboratory received 21 sample(s) on 11/4/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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Albuquerque, NM 87109
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Website: www.hallenvironmental.com

Analytical Report

(consolidated)

WO#: **2211248**

Date Reported: **11/11/2022**

CLIENT: R & R Environmental
Project: Barry Miller
Lab ID: 2211248-001
Client Sample ID S-21A 1'

Collection Date: 11/3/2022 9:00:00 AM
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS				**E300**		Analyst: **JTT**
Chloride	ND	60		mg/Kg	20	11/8/2022 2:53:53 PM
BTEX/GRO/DRO SOIL **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS**				**SW8015**		Analyst: **DGH**
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/8/2022 1:09:07 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/8/2022 1:09:07 AM
Surr: DNOP	94.9	21 - 129		%Rec	1	11/8/2022 1:09:07 AM
BTEX/GRO/DRO SOIL **EPA METHOD 8015D: GASOLINE RANGE**				**SW8015**	**SW5035**	Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/7/2022 1:56:00 PM
Surr: BFB	97.3	37.7 - 212		%Rec	1	11/7/2022 1:56:00 PM
BTEX/GRO/DRO SOIL **EPA METHOD 8021B: VOLATILES**				**SW8021**	**SW5035**	Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	11/7/2022 1:56:00 PM
Toluene	ND	0.048		mg/Kg	1	11/7/2022 1:56:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	11/7/2022 1:56:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	11/7/2022 1:56:00 PM
Surr: 4-Bromofluorobenzene	108	70 - 130		%Rec	1	11/7/2022 1:56:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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Analytical Report

(consolidated)

WO#: **2211248**

Date Reported: **11/11/2022**

CLIENT: R & R Environmental
Collection Date: 11/3/2022 9:05:00 AM
Project: Barry Miller
Lab ID: 2211248-002
Matrix: SOIL
Client Sample ID S-22A 1'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS				**E300**		Analyst: **JTT**
Chloride	ND	60		mg/Kg	20	11/8/2022 3:06:14 PM
BTEX/GRO/DRO SOIL EPA METHOD 8015M/D: DIESEL RANGE ORGANICS				**SW8015**		Analyst: **DGH**
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/8/2022 1:19:56 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/8/2022 1:19:56 AM
Surr: DNOP	61.0	21 - 129		%Rec	1	11/8/2022 1:19:56 AM
BTEX/GRO/DRO SOIL EPA METHOD 8015D: GASOLINE RANGE				**SW8015**	**SW5035**	Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/7/2022 2:16:00 PM
Surr: BFB	93.6	37.7 - 212		%Rec	1	11/7/2022 2:16:00 PM
BTEX/GRO/DRO SOIL EPA METHOD 8021B: VOLATILES				**SW8021**	**SW5035**	Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	11/7/2022 2:16:00 PM
Toluene	ND	0.049		mg/Kg	1	11/7/2022 2:16:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	11/7/2022 2:16:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	11/7/2022 2:16:00 PM
Surr: 4-Bromofluorobenzene	108	70 - 130		%Rec	1	11/7/2022 2:16:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

(consolidated)

WO#: **2211248**

Date Reported: **11/11/2022**

CLIENT: R & R Environmental
Collection Date: 11/3/2022 9:10:00 AM
Project: Barry Miller
Lab ID: 2211248-003
Matrix: SOIL
Client Sample ID S-23A 1'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS				**E300**		Analyst: **JTT**
Chloride	250	61		mg/Kg	20	11/8/2022 3:43:17 PM
BTEX/GRO/DRO SOIL **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS**				**SW8015**		Analyst: **DGH**
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/8/2022 1:41:08 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/8/2022 1:41:08 AM
Surr: DNOP	84.4	21 - 129		%Rec	1	11/8/2022 1:41:08 AM
BTEX/GRO/DRO SOIL **EPA METHOD 8015D: GASOLINE RANGE**				**SW8015** **SW5035**		Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/7/2022 2:36:00 PM
Surr: BFB	99.0	37.7 - 212		%Rec	1	11/7/2022 2:36:00 PM
BTEX/GRO/DRO SOIL **EPA METHOD 8021B: VOLATILES**				**SW8021** **SW5035**		Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	11/7/2022 2:36:00 PM
Toluene	ND	0.048		mg/Kg	1	11/7/2022 2:36:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	11/7/2022 2:36:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	11/7/2022 2:36:00 PM
Surr: 4-Bromofluorobenzene	107	70 - 130		%Rec	1	11/7/2022 2:36:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

(consolidated)

WO#: **2211248**

Date Reported: **11/11/2022**

CLIENT: R & R Environmental
Collection Date: 11/3/2022 9:15:00 AM
Project: Barry Miller
Lab ID: 2211248-004
Matrix: SOIL
Client Sample ID S-24A 1'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS				**E300**		Analyst: **JTT**
Chloride	180	61		mg/Kg	20	11/8/2022 3:55:39 PM
BTEX/GRO/DRO SOIL EPA METHOD 8015M/D: DIESEL RANGE ORGANICS				**SW8015**		Analyst: **DGH**
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/8/2022 1:51:52 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/8/2022 1:51:52 AM
Surr: DNOP	84.0	21 - 129		%Rec	1	11/8/2022 1:51:52 AM
BTEX/GRO/DRO SOIL EPA METHOD 8015D: GASOLINE RANGE				**SW8015**	**SW5035**	Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/7/2022 2:55:00 PM
Surr: BFB	99.1	37.7 - 212		%Rec	1	11/7/2022 2:55:00 PM
BTEX/GRO/DRO SOIL EPA METHOD 8021B: VOLATILES				**SW8021**	**SW5035**	Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	11/7/2022 2:55:00 PM
Toluene	ND	0.048		mg/Kg	1	11/7/2022 2:55:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	11/7/2022 2:55:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	11/7/2022 2:55:00 PM
Surr: 4-Bromofluorobenzene	111	70 - 130		%Rec	1	11/7/2022 2:55:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Website: www.hallenvironmental.com

Analytical Report

(consolidated)

WO#: **2211248**

Date Reported: **11/11/2022**

CLIENT: R & R Environmental
Collection Date: 11/3/2022 9:20:00 AM
Project: Barry Miller
Lab ID: 2211248-005
Matrix: SOIL
Client Sample ID S-25A 1'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS				**E300**		Analyst: **JTT**
Chloride	90	60		mg/Kg	20	11/8/2022 4:07:59 PM
BTEX/GRO/DRO SOIL **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS**				**SW8015**		Analyst: **DGH**
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/8/2022 2:02:34 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/8/2022 2:02:34 AM
Surr: DNOP	89.2	21 - 129		%Rec	1	11/8/2022 2:02:34 AM
BTEX/GRO/DRO SOIL **EPA METHOD 8015D: GASOLINE RANGE**				**SW8015**	**SW5035**	Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/7/2022 3:35:00 PM
Surr: BFB	85.0	37.7 - 212		%Rec	1	11/7/2022 3:35:00 PM
BTEX/GRO/DRO SOIL **EPA METHOD 8021B: VOLATILES**				**SW8021**	**SW5035**	Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	11/7/2022 3:35:00 PM
Toluene	ND	0.049		mg/Kg	1	11/7/2022 3:35:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	11/7/2022 3:35:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	11/7/2022 3:35:00 PM
Surr: 4-Bromofluorobenzene	100	70 - 130		%Rec	1	11/7/2022 3:35:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

(consolidated)

WO#: **2211248**

Date Reported: **11/11/2022**

CLIENT: R & R Environmental
Collection Date: 11/3/2022 9:25:00 AM
Project: Barry Miller
Lab ID: 2211248-006
Matrix: SOIL
Client Sample ID S-26A 1'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS				**E300**		Analyst: **JTT**
Chloride	ND	60		mg/Kg	20	11/8/2022 4:20:20 PM
BTEX/GRO/DRO SOIL EPA METHOD 8015M/D: DIESEL RANGE ORGANICS				**SW8015**		Analyst: **DGH**
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/8/2022 2:13:15 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/8/2022 2:13:15 AM
Surr: DNOP	91.9	21 - 129		%Rec	1	11/8/2022 2:13:15 AM
BTEX/GRO/DRO SOIL EPA METHOD 8015D: GASOLINE RANGE				**SW8015**	**SW5035**	Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/7/2022 3:54:00 PM
Surr: BFB	90.8	37.7 - 212		%Rec	1	11/7/2022 3:54:00 PM
BTEX/GRO/DRO SOIL EPA METHOD 8021B: VOLATILES				**SW8021**	**SW5035**	Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	11/7/2022 3:54:00 PM
Toluene	ND	0.049		mg/Kg	1	11/7/2022 3:54:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	11/7/2022 3:54:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	11/7/2022 3:54:00 PM
Surr: 4-Bromofluorobenzene	104	70 - 130		%Rec	1	11/7/2022 3:54:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

(consolidated)

WO#: **2211248**

Date Reported: **11/11/2022**

CLIENT: R & R Environmental
Collection Date: 11/3/2022 9:30:00 AM
Project: Barry Miller
Lab ID: 2211248-007
Matrix: SOIL
Client Sample ID S-27A 1'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS				**E300**		Analyst: **JTT**
Chloride	ND	60		mg/Kg	20	11/8/2022 4:32:40 PM
BTEX/GRO/DRO SOIL **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS**				**SW8015**		Analyst: **DGH**
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/8/2022 2:23:54 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/8/2022 2:23:54 AM
Surr: DNOP	90.8	21 - 129		%Rec	1	11/8/2022 2:23:54 AM
BTEX/GRO/DRO SOIL **EPA METHOD 8015D: GASOLINE RANGE**				**SW8015** **SW5035**		Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/7/2022 4:14:00 PM
Surr: BFB	91.0	37.7 - 212		%Rec	1	11/7/2022 4:14:00 PM
BTEX/GRO/DRO SOIL **EPA METHOD 8021B: VOLATILES**				**SW8021** **SW5035**		Analyst: **CCM**
Benzene	ND	0.023		mg/Kg	1	11/7/2022 4:14:00 PM
Toluene	ND	0.047		mg/Kg	1	11/7/2022 4:14:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	11/7/2022 4:14:00 PM
Xylenes, Total	ND	0.094		mg/Kg	1	11/7/2022 4:14:00 PM
Surr: 4-Bromofluorobenzene	102	70 - 130		%Rec	1	11/7/2022 4:14:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

(consolidated)

WO#: **2211248**

Date Reported: **11/11/2022**

CLIENT: R & R Environmental
Collection Date: 11/3/2022 9:35:00 AM
Project: Barry Miller
Lab ID: 2211248-008
Matrix: SOIL
Client Sample ID S-28A 1'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS				**E300**		Analyst: **JTT**
Chloride	210	60		mg/Kg	20	11/8/2022 4:45:01 PM
BTEX/GRO/DRO SOIL EPA METHOD 8015M/D: DIESEL RANGE ORGANICS				**SW8015**		Analyst: **DGH**
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/8/2022 2:34:33 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/8/2022 2:34:33 AM
Surr: DNOP	90.0	21 - 129		%Rec	1	11/8/2022 2:34:33 AM
BTEX/GRO/DRO SOIL EPA METHOD 8015D: GASOLINE RANGE				**SW8015**	**SW5035**	Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/7/2022 4:33:00 PM
Surr: BFB	90.6	37.7 - 212		%Rec	1	11/7/2022 4:33:00 PM
BTEX/GRO/DRO SOIL EPA METHOD 8021B: VOLATILES				**SW8021**	**SW5035**	Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	11/7/2022 4:33:00 PM
Toluene	ND	0.047		mg/Kg	1	11/7/2022 4:33:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	11/7/2022 4:33:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	11/7/2022 4:33:00 PM
Surr: 4-Bromofluorobenzene	105	70 - 130		%Rec	1	11/7/2022 4:33:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Analytical Report

(consolidated)

WO#: **2211248**

Date Reported: **11/11/2022**

CLIENT: R & R Environmental
Collection Date: 11/3/2022 9:40:00 AM
Project: Barry Miller
Lab ID: 2211248-009
Matrix: SOIL
Client Sample ID S-29A 1'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS				**E300**		Analyst: **JTT**
Chloride	ND	61		mg/Kg	20	11/8/2022 4:57:21 PM
BTEX/GRO/DRO SOIL **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS**				**SW8015**		Analyst: **DGH**
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/8/2022 2:45:11 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/8/2022 2:45:11 AM
Surr: DNOP	88.8	21 - 129		%Rec	1	11/8/2022 2:45:11 AM
BTEX/GRO/DRO SOIL **EPA METHOD 8015D: GASOLINE RANGE**				**SW8015** **SW5035**		Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/7/2022 4:53:00 PM
Surr: BFB	92.7	37.7 - 212		%Rec	1	11/7/2022 4:53:00 PM
BTEX/GRO/DRO SOIL **EPA METHOD 8021B: VOLATILES**				**SW8021** **SW5035**		Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	11/7/2022 4:53:00 PM
Toluene	ND	0.049		mg/Kg	1	11/7/2022 4:53:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	11/7/2022 4:53:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	11/7/2022 4:53:00 PM
Surr: 4-Bromofluorobenzene	105	70 - 130		%Rec	1	11/7/2022 4:53:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

(consolidated)

WO#: **2211248**

Date Reported: **11/11/2022**

CLIENT: R & R Environmental
Collection Date: 11/3/2022 9:45:00 AM
Project: Barry Miller
Lab ID: 2211248-010
Matrix: SOIL
Client Sample ID S-30A 1'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS				**E300**		Analyst: **JTT**
Chloride	ND	60		mg/Kg	20	11/8/2022 11:20:05 PM
BTEX/GRO/DRO SOIL **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS**				**SW8015**		Analyst: **DGH**
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/8/2022 2:55:47 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/8/2022 2:55:47 AM
Surr: DNOP	90.6	21 - 129		%Rec	1	11/8/2022 2:55:47 AM
BTEX/GRO/DRO SOIL **EPA METHOD 8015D: GASOLINE RANGE**				**SW8015**	**SW5035**	Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/7/2022 5:13:00 PM
Surr: BFB	91.2	37.7 - 212		%Rec	1	11/7/2022 5:13:00 PM
BTEX/GRO/DRO SOIL **EPA METHOD 8021B: VOLATILES**				**SW8021**	**SW5035**	Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	11/7/2022 5:13:00 PM
Toluene	ND	0.048		mg/Kg	1	11/7/2022 5:13:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	11/7/2022 5:13:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	11/7/2022 5:13:00 PM
Surr: 4-Bromofluorobenzene	104	70 - 130		%Rec	1	11/7/2022 5:13:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

(consolidated)

WO#: **2211248**

Date Reported: **11/11/2022**

CLIENT: R & R Environmental
Collection Date: 11/3/2022 9:50:00 AM
Project: Barry Miller
Lab ID: 2211248-011
Matrix: SOIL
Client Sample ID S-31A 1'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS				**E300**		Analyst: **JTT**
Chloride	ND	60		mg/Kg	20	11/8/2022 11:32:26 PM
BTEX/GRO/DRO SOIL EPA METHOD 8015M/D: DIESEL RANGE ORGANICS				**SW8015**		Analyst: **DGH**
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/8/2022 3:06:23 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/8/2022 3:06:23 AM
Surr: DNOP	89.8	21 - 129		%Rec	1	11/8/2022 3:06:23 AM
BTEX/GRO/DRO SOIL EPA METHOD 8015D: GASOLINE RANGE				**SW8015**	**SW5035**	Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/7/2022 5:32:00 PM
Surr: BFB	95.1	37.7 - 212		%Rec	1	11/7/2022 5:32:00 PM
BTEX/GRO/DRO SOIL EPA METHOD 8021B: VOLATILES				**SW8021**	**SW5035**	Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	11/7/2022 5:32:00 PM
Toluene	ND	0.048		mg/Kg	1	11/7/2022 5:32:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	11/7/2022 5:32:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	11/7/2022 5:32:00 PM
Surr: 4-Bromofluorobenzene	104	70 - 130		%Rec	1	11/7/2022 5:32:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

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WO#: **2211248**

Date Reported: **11/11/2022**

CLIENT: R & R Environmental
Collection Date: 11/3/2022 9:55:00 AM
Project: Barry Miller
Lab ID: 2211248-012
Matrix: SOIL
Client Sample ID S-32A 1'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS				**E300**		Analyst: **JTT**
Chloride	ND	60		mg/Kg	20	11/8/2022 11:44:46 PM
BTEX/GRO/DRO SOIL EPA METHOD 8015M/D: DIESEL RANGE ORGANICS				**SW8015**		Analyst: **DGH**
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/8/2022 3:16:58 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/8/2022 3:16:58 AM
Surr: DNOP	85.2	21 - 129		%Rec	1	11/8/2022 3:16:58 AM
BTEX/GRO/DRO SOIL EPA METHOD 8015D: GASOLINE RANGE				**SW8015**	**SW5035**	Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/7/2022 5:52:00 PM
Surr: BFB	94.8	37.7 - 212		%Rec	1	11/7/2022 5:52:00 PM
BTEX/GRO/DRO SOIL EPA METHOD 8021B: VOLATILES				**SW8021**	**SW5035**	Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	11/7/2022 5:52:00 PM
Toluene	ND	0.049		mg/Kg	1	11/7/2022 5:52:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	11/7/2022 5:52:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	11/7/2022 5:52:00 PM
Surr: 4-Bromofluorobenzene	103	70 - 130		%Rec	1	11/7/2022 5:52:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

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WO#: **2211248**

Date Reported: **11/11/2022**

CLIENT: R & R Environmental
Collection Date: 11/3/2022 10:00:00 AM
Project: Barry Miller
Lab ID: 2211248-013
Matrix: SOIL
Client Sample ID S-33A 1'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS				**E300**		Analyst: **JTT**
Chloride	ND	60		mg/Kg	20	11/8/2022 11:57:07 PM
BTEX/GRO/DRO SOIL **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS**				**SW8015**		Analyst: **DGH**
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/8/2022 3:27:32 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/8/2022 3:27:32 AM
Surr: DNOP	86.1	21 - 129		%Rec	1	11/8/2022 3:27:32 AM
BTEX/GRO/DRO SOIL **EPA METHOD 8015D: GASOLINE RANGE**				**SW8015**	**SW5035**	Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/7/2022 6:12:00 PM
Surr: BFB	93.3	37.7 - 212		%Rec	1	11/7/2022 6:12:00 PM
BTEX/GRO/DRO SOIL **EPA METHOD 8021B: VOLATILES**				**SW8021**	**SW5035**	Analyst: **CCM**
Benzene	ND	0.023		mg/Kg	1	11/7/2022 6:12:00 PM
Toluene	ND	0.047		mg/Kg	1	11/7/2022 6:12:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	11/7/2022 6:12:00 PM
Xylenes, Total	ND	0.093		mg/Kg	1	11/7/2022 6:12:00 PM
Surr: 4-Bromofluorobenzene	107	70 - 130		%Rec	1	11/7/2022 6:12:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

(consolidated)

WO#: **2211248**

Date Reported: **11/11/2022**

CLIENT: R & R Environmental
Collection Date: 11/3/2022 10:30:00 AM
Project: Barry Miller
Lab ID: 2211248-014
Matrix: SOIL
Client Sample ID SW1

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS				**E300**		Analyst: **JTT**
Chloride	210	60		mg/Kg	20	11/9/2022 12:09:27 AM
BTEX/GRO/DRO SOIL EPA METHOD 8015M/D: DIESEL RANGE ORGANICS				**SW8015**		Analyst: **DGH**
Diesel Range Organics (DRO)	19	15		mg/Kg	1	11/8/2022 3:38:05 AM
Motor Oil Range Organics (MRO)	110	49		mg/Kg	1	11/8/2022 3:38:05 AM
Surr: DNOP	85.2	21 - 129		%Rec	1	11/8/2022 3:38:05 AM
BTEX/GRO/DRO SOIL EPA METHOD 8015D: GASOLINE RANGE				**SW8015**	**SW5035**	Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/7/2022 6:32:00 PM
Surr: BFB	92.2	37.7 - 212		%Rec	1	11/7/2022 6:32:00 PM
BTEX/GRO/DRO SOIL EPA METHOD 8021B: VOLATILES				**SW8021**	**SW5035**	Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	11/7/2022 6:32:00 PM
Toluene	ND	0.049		mg/Kg	1	11/7/2022 6:32:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	11/7/2022 6:32:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	11/7/2022 6:32:00 PM
Surr: 4-Bromofluorobenzene	103	70 - 130		%Rec	1	11/7/2022 6:32:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

(consolidated)

WO#: **2211248**

Date Reported: **11/11/2022**

CLIENT: R & R Environmental
Collection Date: 11/3/2022 10:35:00 AM
Project: Barry Miller
Lab ID: 2211248-015
Matrix: SOIL
Client Sample ID SW2

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS				**E300**		Analyst: **JTT**
Chloride	ND	60		mg/Kg	20	11/9/2022 12:21:47 AM
BTEX/GRO/DRO SOIL **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS**				**SW8015**		Analyst: **DGH**
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/8/2022 10:09:58 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/8/2022 10:09:58 AM
Surr: DNOP	102	21 - 129		%Rec	1	11/8/2022 10:09:58 AM
BTEX/GRO/DRO SOIL **EPA METHOD 8015D: GASOLINE RANGE**				**SW8015**	**SW5035**	Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/7/2022 4:03:13 PM
Surr: BFB	88.4	37.7 - 212		%Rec	1	11/7/2022 4:03:13 PM
BTEX/GRO/DRO SOIL **EPA METHOD 8021B: VOLATILES**				**SW8021**	**SW5035**	Analyst: **NSB**
Benzene	ND	0.024		mg/Kg	1	11/7/2022 4:03:13 PM
Toluene	ND	0.048		mg/Kg	1	11/7/2022 4:03:13 PM
Ethylbenzene	ND	0.048		mg/Kg	1	11/7/2022 4:03:13 PM
Xylenes, Total	ND	0.097		mg/Kg	1	11/7/2022 4:03:13 PM
Surr: 4-Bromofluorobenzene	92.1	70 - 130		%Rec	1	11/7/2022 4:03:13 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

(consolidated)

WO#: **2211248**

Date Reported: **11/11/2022**

CLIENT: R & R Environmental
Collection Date: 11/3/2022 10:40:00 AM
Project: Barry Miller
Lab ID: 2211248-016
Matrix: SOIL
Client Sample ID SW3

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS				**E300**		Analyst: **JTT**
Chloride	ND	60		mg/Kg	20	11/9/2022 12:34:08 AM
BTEX/GRO/DRO SOIL EPA METHOD 8015M/D: DIESEL RANGE ORGANICS				**SW8015**		Analyst: **DGH**
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/8/2022 10:21:40 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/8/2022 10:21:40 AM
Surr: DNOP	96.2	21 - 129		%Rec	1	11/8/2022 10:21:40 AM
BTEX/GRO/DRO SOIL EPA METHOD 8015D: GASOLINE RANGE				**SW8015**	**SW5035**	Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/7/2022 5:14:14 PM
Surr: BFB	84.8	37.7 - 212		%Rec	1	11/7/2022 5:14:14 PM
BTEX/GRO/DRO SOIL EPA METHOD 8021B: VOLATILES				**SW8021**	**SW5035**	Analyst: **NSB**
Benzene	ND	0.024		mg/Kg	1	11/7/2022 5:14:14 PM
Toluene	ND	0.049		mg/Kg	1	11/7/2022 5:14:14 PM
Ethylbenzene	ND	0.049		mg/Kg	1	11/7/2022 5:14:14 PM
Xylenes, Total	ND	0.098		mg/Kg	1	11/7/2022 5:14:14 PM
Surr: 4-Bromofluorobenzene	88.6	70 - 130		%Rec	1	11/7/2022 5:14:14 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

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WO#: **2211248**

Date Reported: **11/11/2022**

CLIENT: R & R Environmental
Collection Date: 11/3/2022 10:45:00 AM
Project: Barry Miller
Lab ID: 2211248-017
Matrix: SOIL
Client Sample ID SW4

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS				**E300**		Analyst: **JTT**
Chloride	150	60		mg/Kg	20	11/9/2022 12:46:28 AM
BTEX/GRO/DRO SOIL **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS**				**SW8015**		Analyst: **DGH**
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/8/2022 11:48:50 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/8/2022 11:48:50 AM
Surr: DNOP	104	21 - 129		%Rec	1	11/8/2022 11:48:50 AM
BTEX/GRO/DRO SOIL **EPA METHOD 8015D: GASOLINE RANGE**				**SW8015**	**SW5035**	Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/7/2022 7:35:53 PM
Surr: BFB	85.3	37.7 - 212		%Rec	1	11/7/2022 7:35:53 PM
BTEX/GRO/DRO SOIL **EPA METHOD 8021B: VOLATILES**				**SW8021**	**SW5035**	Analyst: **NSB**
Benzene	ND	0.023		mg/Kg	1	11/7/2022 7:35:53 PM
Toluene	ND	0.047		mg/Kg	1	11/7/2022 7:35:53 PM
Ethylbenzene	ND	0.047		mg/Kg	1	11/7/2022 7:35:53 PM
Xylenes, Total	ND	0.093		mg/Kg	1	11/7/2022 7:35:53 PM
Surr: 4-Bromofluorobenzene	89.9	70 - 130		%Rec	1	11/7/2022 7:35:53 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

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WO#: **2211248**

Date Reported: **11/11/2022**

CLIENT: R & R Environmental
Collection Date: 11/3/2022 10:50:00 AM
Project: Barry Miller
Lab ID: 2211248-018
Matrix: SOIL
Client Sample ID BG1

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS				**E300**		Analyst: **JTT**
Chloride	ND	60		mg/Kg	20	11/9/2022 1:23:31 AM
BTEX/GRO/DRO SOIL EPA METHOD 8015M/D: DIESEL RANGE ORGANICS				**SW8015**		Analyst: **DGH**
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/8/2022 12:21:25 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/8/2022 12:21:25 PM
Surr: DNOP	99.5	21 - 129		%Rec	1	11/8/2022 12:21:25 PM
BTEX/GRO/DRO SOIL EPA METHOD 8015D: GASOLINE RANGE				**SW8015**	**SW5035**	Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/7/2022 7:59:20 PM
Surr: BFB	86.2	37.7 - 212		%Rec	1	11/7/2022 7:59:20 PM
BTEX/GRO/DRO SOIL EPA METHOD 8021B: VOLATILES				**SW8021**	**SW5035**	Analyst: **NSB**
Benzene	ND	0.023		mg/Kg	1	11/7/2022 7:59:20 PM
Toluene	ND	0.047		mg/Kg	1	11/7/2022 7:59:20 PM
Ethylbenzene	ND	0.047		mg/Kg	1	11/7/2022 7:59:20 PM
Xylenes, Total	ND	0.094		mg/Kg	1	11/7/2022 7:59:20 PM
Surr: 4-Bromofluorobenzene	90.9	70 - 130		%Rec	1	11/7/2022 7:59:20 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Analytical Report

(consolidated)

WO#: **2211248**

Date Reported: **11/11/2022**

CLIENT: R & R Environmental
Collection Date: 11/3/2022 10:55:00 AM
Project: Barry Miller
Lab ID: 2211248-019
Matrix: SOIL
Client Sample ID BG2

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS				**E300**		Analyst: **JTT**
Chloride	ND	60		mg/Kg	20	11/9/2022 1:35:52 AM
BTEX/GRO/DRO SOIL **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS**				**SW8015**		Analyst: **DGH**
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/8/2022 12:32:09 PM
Motor Oil Range Organics (MRO)	54	50		mg/Kg	1	11/8/2022 12:32:09 PM
Surr: DNOP	113	21 - 129		%Rec	1	11/8/2022 12:32:09 PM
BTEX/GRO/DRO SOIL **EPA METHOD 8015D: GASOLINE RANGE**				**SW8015**	**SW5035**	Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/7/2022 8:22:58 PM
Surr: BFB	86.0	37.7 - 212		%Rec	1	11/7/2022 8:22:58 PM
BTEX/GRO/DRO SOIL **EPA METHOD 8021B: VOLATILES**				**SW8021**	**SW5035**	Analyst: **NSB**
Benzene	ND	0.024		mg/Kg	1	11/7/2022 8:22:58 PM
Toluene	ND	0.047		mg/Kg	1	11/7/2022 8:22:58 PM
Ethylbenzene	ND	0.047		mg/Kg	1	11/7/2022 8:22:58 PM
Xylenes, Total	ND	0.094		mg/Kg	1	11/7/2022 8:22:58 PM
Surr: 4-Bromofluorobenzene	90.3	70 - 130		%Rec	1	11/7/2022 8:22:58 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Analytical Report

(consolidated)

WO#: **2211248**

Date Reported: **11/11/2022**

CLIENT: R & R Environmental
Collection Date: 11/3/2022 11:00:00 AM
Project: Barry Miller
Lab ID: 2211248-020
Matrix: SOIL
Client Sample ID BG3

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS				**E300**		Analyst: **NAI**
Chloride	ND	60		mg/Kg	20	11/9/2022 5:31:10 PM
BTEX/GRO/DRO SOIL EPA METHOD 8015M/D: DIESEL RANGE ORGANICS				**SW8015**		Analyst: **DGH**
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/8/2022 12:42:53 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/8/2022 12:42:53 PM
Surr: DNOP	144	21 - 129	S	%Rec	1	11/8/2022 12:42:53 PM
BTEX/GRO/DRO SOIL EPA METHOD 8015D: GASOLINE RANGE				**SW8015**	**SW5035**	Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/7/2022 8:46:34 PM
Surr: BFB	85.2	37.7 - 212		%Rec	1	11/7/2022 8:46:34 PM
BTEX/GRO/DRO SOIL EPA METHOD 8021B: VOLATILES				**SW8021**	**SW5035**	Analyst: **NSB**
Benzene	ND	0.023		mg/Kg	1	11/7/2022 8:46:34 PM
Toluene	ND	0.047		mg/Kg	1	11/7/2022 8:46:34 PM
Ethylbenzene	ND	0.047		mg/Kg	1	11/7/2022 8:46:34 PM
Xylenes, Total	ND	0.094		mg/Kg	1	11/7/2022 8:46:34 PM
Surr: 4-Bromofluorobenzene	89.6	70 - 130		%Rec	1	11/7/2022 8:46:34 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Analytical Report

(consolidated)

WO#: **2211248**

Date Reported: **11/11/2022**

CLIENT: R & R Environmental
Collection Date: 11/3/2022 11:05:00 AM
Project: Barry Miller
Lab ID: 2211248-021
Matrix: SOIL
Client Sample ID BG4

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS				**E300**		Analyst: **NAI**
Chloride	ND	60		mg/Kg	20	11/9/2022 6:08:22 PM
BTEX/GRO/DRO SOIL EPA METHOD 8015M/D: DIESEL RANGE ORGANICS				**SW8015**		Analyst: **DGH**
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/8/2022 12:53:38 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/8/2022 12:53:38 PM
Surr: DNOP	100	21 - 129		%Rec	1	11/8/2022 12:53:38 PM
BTEX/GRO/DRO SOIL EPA METHOD 8015D: GASOLINE RANGE				**SW8015**	**SW5035**	Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	11/7/2022 9:10:05 PM
Surr: BFB	84.2	37.7 - 212		%Rec	1	11/7/2022 9:10:05 PM
BTEX/GRO/DRO SOIL EPA METHOD 8021B: VOLATILES				**SW8021**	**SW5035**	Analyst: **NSB**
Benzene	ND	0.023		mg/Kg	1	11/7/2022 9:10:05 PM
Toluene	ND	0.046		mg/Kg	1	11/7/2022 9:10:05 PM
Ethylbenzene	ND	0.046		mg/Kg	1	11/7/2022 9:10:05 PM
Xylenes, Total	ND	0.092		mg/Kg	1	11/7/2022 9:10:05 PM
Surr: 4-Bromofluorobenzene	89.1	70 - 130		%Rec	1	11/7/2022 9:10:05 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2211248**

11-Nov-22

Client: R & R Environmental

Project: Barry Miller

Sample ID: **MB-71360**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **71360**	RunNo: **92424**
Prep Date: **11/8/2022**	Analysis Date: **11/8/2022**	SeqNo: **3321854** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-71360**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **71360**	RunNo: **92424**
Prep Date: **11/8/2022**	Analysis Date: **11/8/2022**	SeqNo: **3321855** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.9	90	110			

Sample ID: **MB-71373**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **71373**	RunNo: **92424**
Prep Date: **11/8/2022**	Analysis Date: **11/8/2022**	SeqNo: **3321884** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-71373**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **71373**	RunNo: **92424**
Prep Date: **11/8/2022**	Analysis Date: **11/8/2022**	SeqNo: **3321885** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.7	90	110			

Sample ID: **MB-71398**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **71398**	RunNo: **92446**
Prep Date: **11/9/2022**	Analysis Date: **11/9/2022**	SeqNo: **3323859** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-71398**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **71398**	RunNo: **92446**
Prep Date: **11/9/2022**	Analysis Date: **11/9/2022**	SeqNo: **3323860** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.8	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2211248**

11-Nov-22

Client: R & R Environmental

Project: Barry Miller

Sample ID: **LCS-71298**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **71298**	RunNo: **92379**
Prep Date: **11/4/2022**	Analysis Date: **11/7/2022**	SeqNo: **3320993** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	15	50.00	0	97.6	64.4	127			
Surr: DNOP	5.8		5.000		117	21	129			

Sample ID: **LCS-71310**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **71310**	RunNo: **92379**
Prep Date: **11/4/2022**	Analysis Date: **11/8/2022**	SeqNo: **3320994** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	15	50.00	0	88.3	64.4	127			
Surr: DNOP	4.8		5.000		96.4	21	129			

Sample ID: **MB-71298**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **71298**	RunNo: **92379**
Prep Date: **11/4/2022**	Analysis Date: **11/7/2022**	SeqNo: **3320995** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		103	21	129			

Sample ID: **MB-71310**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **71310**	RunNo: **92379**
Prep Date: **11/4/2022**	Analysis Date: **11/8/2022**	SeqNo: **3320996** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.7		10.00		87.0	21	129			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2211248**

11-Nov-22

Client: R & R Environmental

Project: Barry Miller

Sample ID: **mb-71306**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **71306**	RunNo: **92384**							
Prep Date: **11/4/2022**	Analysis Date: **11/7/2022**	SeqNo: **3319942**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	860		1000		85.9	37.7	212			

Sample ID: **lcs-71306**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **71306**	RunNo: **92384**							
Prep Date: **11/4/2022**	Analysis Date: **11/7/2022**	SeqNo: **3319943**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.8	72.3	137			
Surr: BFB	1800		1000		183	37.7	212			

Sample ID: **2211248-015ams**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **SW2**	Batch ID: **71306**	RunNo: **92384**							
Prep Date: **11/4/2022**	Analysis Date: **11/7/2022**	SeqNo: **3319945**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	4.8	23.76	0	89.4	70	130			
Surr: BFB	1700		950.6		183	37.7	212			

Sample ID: **2211248-015amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **SW2**	Batch ID: **71306**	RunNo: **92384**							
Prep Date: **11/4/2022**	Analysis Date: **11/7/2022**	SeqNo: **3319946**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	4.7	23.41	0	88.1	70	130	2.91	20	
Surr: BFB	1700		936.3		181	37.7	212	0	0	

Sample ID: **lcs-71295**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **71295**	RunNo: **92401**							
Prep Date: **11/4/2022**	Analysis Date: **11/7/2022**	SeqNo: **3320729**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.3	72.3	137			
Surr: BFB	2100		1000		206	37.7	212			

Sample ID: **mb-71295**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **71295**	RunNo: **92401**							
Prep Date: **11/4/2022**	Analysis Date: **11/7/2022**	SeqNo: **3320730**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2211248**

11-Nov-22

Client: R & R Environmental

Project: Barry Miller

Sample ID: **mb-71295**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **71295**	RunNo: **92401**
Prep Date: **11/4/2022**	Analysis Date: **11/7/2022**	SeqNo: **3320730** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1500		1000		149	37.7	212			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2211248**

11-Nov-22

Client: R & R Environmental

Project: Barry Miller

Sample ID: **mb-71306**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **71306**	RunNo: **92384**
Prep Date: **11/4/2022**	Analysis Date: **11/7/2022**	SeqNo: **3319981** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.90		1.000		90.4	70	130			

Sample ID: **LCS-71306**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **71306**	RunNo: **92384**
Prep Date: **11/4/2022**	Analysis Date: **11/7/2022**	SeqNo: **3319982** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	1.000	0	97.0	80	120			
Toluene	0.99	0.050	1.000	0	98.6	80	120			
Ethylbenzene	0.98	0.050	1.000	0	98.1	80	120			
Xylenes, Total	3.0	0.10	3.000	0	98.9	80	120			
Surr: 4-Bromofluorobenzene	0.95		1.000		94.5	70	130			

Sample ID: **2211248-016ams**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **SW3**	Batch ID: **71306**	RunNo: **92384**
Prep Date: **11/4/2022**	Analysis Date: **11/7/2022**	SeqNo: **3319985** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	0.9960	0	85.8	68.8	120			
Toluene	0.90	0.050	0.9960	0.01426	89.3	73.6	124			
Ethylbenzene	0.91	0.050	0.9960	0	91.0	72.7	129			
Xylenes, Total	2.7	0.10	2.988	0.01895	91.0	75.7	126			
Surr: 4-Bromofluorobenzene	0.90		0.9960		90.8	70	130			

Sample ID: **2211248-016amsd**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **SW3**	Batch ID: **71306**	RunNo: **92384**
Prep Date: **11/4/2022**	Analysis Date: **11/7/2022**	SeqNo: **3319986** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.82	0.025	0.9862	0	83.6	68.8	120	3.58	20	
Toluene	0.91	0.049	0.9862	0.01426	90.7	73.6	124	0.539	20	
Ethylbenzene	0.92	0.049	0.9862	0	92.9	72.7	129	1.12	20	
Xylenes, Total	2.8	0.099	2.959	0.01895	93.8	75.7	126	1.99	20	
Surr: 4-Bromofluorobenzene	0.92		0.9862		93.5	70	130	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2211248**

11-Nov-22

Client: R & R Environmental

Project: Barry Miller

Sample ID: **lcs-71295**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **71295**	RunNo: **92401**
Prep Date: **11/4/2022**	Analysis Date: **11/7/2022**	SeqNo: **3320756** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	111	80	120			
Toluene	1.1	0.050	1.000	0	113	80	120			
Ethylbenzene	1.1	0.050	1.000	0	114	80	120			
Xylenes, Total	3.4	0.10	3.000	0	113	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		109	70	130			

Sample ID: **mb-71295**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **71295**	RunNo: **92401**
Prep Date: **11/4/2022**	Analysis Date: **11/7/2022**	SeqNo: **3320757** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.7		1.000		169	70	130			S

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: R & R Environmental | Work Order Number: 2211248 | RcptNo: 1

Received By: Tracy Casarrubias 11/4/2022 7:30:00 AM

Completed By: Tracy Casarrubias 11/4/2022 7:45:38 AM

Reviewed By: JN 11/4/22

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: (<2 or >12 unless noted)

Adjusted?

Checked by: KPA 11.4.22 ~~H 8.22~~ 11.4.22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:

By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.5	Good	Yes			

Chain-of-Custody Record

Client: R&R Environmental

Mailing Address: 1405 Greene
Carlsbad. NM

Phone #: (575) 247-1106

email or Fax#: James@R&REnvironmental.net

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time:
☒ Standard ☒ Rush 5 DAY.

Project Name: Barry Miller

Project #: 30000.005

Project Manager: James Carnes

Sampler: D. Lyon

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp (Including CF): 4.6 -0.1 = 4.5 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2211248	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
11/3	9:00		S-21A 1'	4oz 1	Ice	001										
	9:05		S 22A 1'			002										
	9:10		S 23 A 1'			003										
	9:15		S 24A 1'			004										
	9:20		S 25A 1'			005										
	9:25		S 26 A 1'			006										
	9:30		S 27A 1'			007										
	9:35		S 28 A 1'			008										
	9:40		S 29A 1'			009										
	9:45		S 30 A 1'			010										
	9:50		S 31 A 1'			011										
	9:55		S 32 A 1'			012										

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
					11/3/22	1480
11/3/22	1900				11/4/22	7:36

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Chain-of-Custody Record

Client: R&R Environmental

Mailing Address: [illegible] Green
Carlsbad

Phone #: (575) 247-1108

email or Fax#: James@RandREnvironmental.net

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush 5 Day

Project Name: Barry Miller

Project #: 30000.005

Project Manager: James Carnes

Sampler: [illegible]

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp (including CF): 4.6 -0.1 = 4.5 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2211248	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
11/3	10:00		S-33A 1'	4oz. 1	Ice Cool	013										
	10:30		SW 1			014										
	10:35		SW 2			015										
	10:40		SW 3			016										
	10:45		SW 4			017										
	10:50		BG 1			018										
	10:55		BG 2			019										
	11:00		BG 3			020										
↓	11:05		BG 4	↓	↓	021	↓	↓					↓			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
			[signature]		11/3/22	1430
Date: 11/3/22	Time: 1900	Relinquished by: [signature]	Received by:	Via: courier	Date 11/4/22	Time 7:30

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

November 22, 2022

James Carnes
R & R Environmental
1505 W. Bullock Ave
Artesia, NM 88210
TEL: (575) 616-9340
FAX

RE: Barry Miller Booster Station OrderNo.: 2211795

Dear James Carnes:

Hall Environmental Analysis Laboratory received 3 sample(s) on 11/15/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2211795**
Date Reported: **11/22/2022**

CLIENT: R & R Environmental
Project: Barry Miller Booster Station
Lab ID: 2211795-001 **Matrix:** SOIL

Client Sample ID: S-4B 2.5'
Collection Date: 11/11/2022 1:40:00 PM
Received Date: 11/15/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	ND	60		mg/Kg	20	11/18/2022 12:46:10 AM	71580
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/17/2022 12:11:11 PM	71561
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/17/2022 12:11:11 PM	71561
Surr: DNOP	102	21-129		%Rec	1	11/17/2022 12:11:11 PM	71561
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/16/2022 4:48:30 PM	71521
Surr: BFB	91.4	37.7-212		%Rec	1	11/16/2022 4:48:30 PM	71521
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	11/16/2022 4:48:30 PM	71521
Toluene	ND	0.049		mg/Kg	1	11/16/2022 4:48:30 PM	71521
Ethylbenzene	ND	0.049		mg/Kg	1	11/16/2022 4:48:30 PM	71521
Xylenes, Total	ND	0.099		mg/Kg	1	11/16/2022 4:48:30 PM	71521
Surr: 4-Bromofluorobenzene	95.3	70-130		%Rec	1	11/16/2022 4:48:30 PM	71521

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R & R Environmental
Project: Barry Miller Booster Station
Lab ID: 2211795-002 **Matrix:** SOIL

Client Sample ID: S-16B 2.5'
Collection Date: 11/11/2022 1:50:00 PM
Received Date: 11/15/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	130	60		mg/Kg	20	11/18/2022 1:48:12 AM	71580
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/17/2022 12:21:47 PM	71561
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/17/2022 12:21:47 PM	71561
Surr: DNOP	84.6	21-129		%Rec	1	11/17/2022 12:21:47 PM	71561
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/16/2022 5:58:56 PM	71521
Surr: BFB	92.3	37.7-212		%Rec	1	11/16/2022 5:58:56 PM	71521
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	11/16/2022 5:58:56 PM	71521
Toluene	ND	0.049		mg/Kg	1	11/16/2022 5:58:56 PM	71521
Ethylbenzene	ND	0.049		mg/Kg	1	11/16/2022 5:58:56 PM	71521
Xylenes, Total	ND	0.098		mg/Kg	1	11/16/2022 5:58:56 PM	71521
Surr: 4-Bromofluorobenzene	95.9	70-130		%Rec	1	11/16/2022 5:58:56 PM	71521

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2211795**
Date Reported: **11/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R & R Environmental
Project: Barry Miller Booster Station
Lab ID: 2211795-003 **Matrix:** SOIL

Client Sample ID: S-19B 2.5'
Collection Date: 11/11/2022 1:55:00 PM
Received Date: 11/15/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	290	60		mg/Kg	20	11/18/2022 2:00:36 AM	71580
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/17/2022 12:32:23 PM	71561
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/17/2022 12:32:23 PM	71561
Surr: DNOP	84.8	21-129		%Rec	1	11/17/2022 12:32:23 PM	71561
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/16/2022 6:22:25 PM	71521
Surr: BFB	92.1	37.7-212		%Rec	1	11/16/2022 6:22:25 PM	71521
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	11/16/2022 6:22:25 PM	71521
Toluene	ND	0.049		mg/Kg	1	11/16/2022 6:22:25 PM	71521
Ethylbenzene	ND	0.049		mg/Kg	1	11/16/2022 6:22:25 PM	71521
Xylenes, Total	ND	0.099		mg/Kg	1	11/16/2022 6:22:25 PM	71521
Surr: 4-Bromofluorobenzene	96.7	70-130		%Rec	1	11/16/2022 6:22:25 PM	71521

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2211795**

22-Nov-22

Client: R & R Environmental

Project: Barry Miller Booster Station

Sample ID: **MB-71580**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **71580**	RunNo: **92686**
Prep Date: **11/17/2022**	Analysis Date: **11/17/2022**	SeqNo: **3334966** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-71580**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **71580**	RunNo: **92686**
Prep Date: **11/17/2022**	Analysis Date: **11/17/2022**	SeqNo: **3334967** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.8	90	110			

Sample ID: **LCS-71580**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **71580**	RunNo: **92726**
Prep Date: **11/17/2022**	Analysis Date: **11/18/2022**	SeqNo: **3337110** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.5	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2211795**

22-Nov-22

Client: R & R Environmental

Project: Barry Miller Booster Station

Sample ID: **LCS-71561**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **71561**	RunNo: **92653**
Prep Date: **11/17/2022**	Analysis Date: **11/17/2022**	SeqNo: **3333143** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	15	50.00	0	89.4	64.4	127			
Surr: DNOP	5.0		5.000		99.5	21	129			

Sample ID: **MB-71561**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **71561**	RunNo: **92653**
Prep Date: **11/17/2022**	Analysis Date: **11/17/2022**	SeqNo: **3333145** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.3		10.00		93.1	21	129			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2211795**

22-Nov-22

Client: R & R Environmental

Project: Barry Miller Booster Station

Sample ID: **mb-71521**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **71521**	RunNo: **92616**
Prep Date: **11/15/2022**	Analysis Date: **11/16/2022**	SeqNo: **3332067** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	930		1000		92.5	37.7	212			

Sample ID: **lcs-71521**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **71521**	RunNo: **92616**
Prep Date: **11/15/2022**	Analysis Date: **11/16/2022**	SeqNo: **3332068** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	100	72.3	137			
Surr: BFB	1900		1000		190	37.7	212			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2211795**

22-Nov-22

Client: R & R Environmental

Project: Barry Miller Booster Station

Sample ID: **mb-71521**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **71521**	RunNo: **92616**
Prep Date: **11/15/2022**	Analysis Date: **11/16/2022**	SeqNo: **3332113** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.98		1.000		97.5	70	130			

Sample ID: **LCS-71521**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **71521**	RunNo: **92616**
Prep Date: **11/15/2022**	Analysis Date: **11/16/2022**	SeqNo: **3332114** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	1.000	0	98.2	80	120			
Toluene	1.0	0.050	1.000	0	100	80	120			
Ethylbenzene	1.0	0.050	1.000	0	100	80	120			
Xylenes, Total	3.0	0.10	3.000	0	101	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		99.8	70	130			

Sample ID: **2211795-001ams**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **S-4B 2.5'**	Batch ID: **71521**	RunNo: **92616**
Prep Date: **11/15/2022**	Analysis Date: **11/16/2022**	SeqNo: **3332116** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.025	0.9990	0	118	68.8	120			
Toluene	1.2	0.050	0.9990	0.01251	121	73.6	124			
Ethylbenzene	1.2	0.050	0.9990	0.01468	122	72.7	129			
Xylenes, Total	3.7	0.10	2.997	0.03478	123	75.7	126			
Surr: 4-Bromofluorobenzene	0.96		0.9990		95.6	70	130			

Sample ID: **2211795-001amsd**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **S-4B 2.5'**	Batch ID: **71521**	RunNo: **92616**
Prep Date: **11/15/2022**	Analysis Date: **11/16/2022**	SeqNo: **3332117** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.025	0.9881	0	121	68.8	120	1.96	20	S
Toluene	1.2	0.049	0.9881	0.01251	124	73.6	124	1.71	20	S
Ethylbenzene	1.3	0.049	0.9881	0.01468	125	72.7	129	1.51	20	
Xylenes, Total	3.7	0.099	2.964	0.03478	125	75.7	126	0.558	20	
Surr: 4-Bromofluorobenzene	0.96		0.9881		97.0	70	130	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: R & R Environmental | Work Order Number: 2211795 | RcptNo: 1

Received By: Juan Rojas 11/15/2022 7:30:00 AM

Completed By: Sean Livingston 11/15/2022 8:16:50 AM

Reviewed By: KPG 11.15.22

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: JM 11/15/22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.3	Good				

Chain-of-Custody Record

Client: R & R Environmental

Mailing Address: 1505 W. Bullock
Artesia NM, 88210

Phone #: 575-616-9340

email or Fax#: Rene@rrenvironmental.net

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☐ Standard ☑ Rush 3 day

Project Name:
Barry Miller Booster Station

Project #:
30000.005

Project Manager:
James Carnes

Sampler: J. Carnes

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 0.3+0.2=0.3 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2211795	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
11/11/22	1:40	Soil	S-4B 2.5'	6oz Glass Jar/1	Ice/Cool	001	X	X					X			
"	1:50	"	S-16B 2.5'	"	"	002	"	"					"			
"	1:55	"	S-19B 2.5'	"	"	003	"	"					"			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
		James Carnes			11/14/22	1130
11/14/22	1900			courier	11/15/22	7:30

Remarks:
Email results: james@rrenvironmental.net
james.carnes@aol.com

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

November 22, 2022

James Carnes
R & R Environmental
1505 W. Bullock Ave
Artesia, NM 88210
TEL: (575) 616-9340
FAX

RE: Barry Miller Booster Station OrderNo.: 2211797

Dear James Carnes:

Hall Environmental Analysis Laboratory received 1 sample(s) on 11/15/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2211797**
Date Reported: **11/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R & R Environmental
Project: Barry Miller Booster Station
Lab ID: 2211797-001 **Matrix:** SOIL

Client Sample ID: SW1A
Collection Date: 11/11/2022 2:10:00 PM
Received Date: 11/15/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	ND	60		mg/Kg	20	11/18/2022 2:13:00 AM	71580
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/17/2022 12:43:10 PM	71561
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/17/2022 12:43:10 PM	71561
Surr: DNOP	93.5	21-129		%Rec	1	11/17/2022 12:43:10 PM	71561
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/16/2022 6:45:59 PM	71521
Surr: BFB	90.9	37.7-212		%Rec	1	11/16/2022 6:45:59 PM	71521
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	11/16/2022 6:45:59 PM	71521
Toluene	ND	0.049		mg/Kg	1	11/16/2022 6:45:59 PM	71521
Ethylbenzene	ND	0.049		mg/Kg	1	11/16/2022 6:45:59 PM	71521
Xylenes, Total	ND	0.098		mg/Kg	1	11/16/2022 6:45:59 PM	71521
Surr: 4-Bromofluorobenzene	95.4	70-130		%Rec	1	11/16/2022 6:45:59 PM	71521

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2211797**

22-Nov-22

Client: R & R Environmental

Project: Barry Miller Booster Station

Sample ID: **MB-71580**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **71580**	RunNo: **92686**
Prep Date: **11/17/2022**	Analysis Date: **11/17/2022**	SeqNo: **3334966** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-71580**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **71580**	RunNo: **92686**
Prep Date: **11/17/2022**	Analysis Date: **11/17/2022**	SeqNo: **3334967** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.8	90	110			

Sample ID: **LCS-71580**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **71580**	RunNo: **92726**
Prep Date: **11/17/2022**	Analysis Date: **11/18/2022**	SeqNo: **3337110** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.5	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2211797**

22-Nov-22

Client: R & R Environmental

Project: Barry Miller Booster Station

Sample ID: **LCS-71561**	SampType: **LCS**			TestCode: **EPA Method 8015M/D: Diesel Range Organics**					
Client ID: **LCSS**	Batch ID: **71561**			RunNo: **92653**					
Prep Date: **11/17/2022**	Analysis Date: **11/17/2022**			SeqNo: **3333143**		Units: **mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	15	50.00	0	89.4	64.4	127			
Surr: DNOP	5.0		5.000		99.5	21	129			

Sample ID: **MB-71561**	SampType: **MBLK**			TestCode: **EPA Method 8015M/D: Diesel Range Organics**					
Client ID: **PBS**	Batch ID: **71561**			RunNo: **92653**					
Prep Date: **11/17/2022**	Analysis Date: **11/17/2022**			SeqNo: **3333145**		Units: **mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.3		10.00		93.1	21	129			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2211797**

22-Nov-22

Client: R & R Environmental

Project: Barry Miller Booster Station

Sample ID: **mb-71521**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **71521**	RunNo: **92616**
Prep Date: **11/15/2022**	Analysis Date: **11/16/2022**	SeqNo: **3332067** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	930		1000		92.5	37.7	212			

Sample ID: **lcs-71521**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **71521**	RunNo: **92616**
Prep Date: **11/15/2022**	Analysis Date: **11/16/2022**	SeqNo: **3332068** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	100	72.3	137			
Surr: BFB	1900		1000		190	37.7	212			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2211797**

22-Nov-22

Client: R & R Environmental

Project: Barry Miller Booster Station

Sample ID: **mb-71521**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**							
Client ID: **PBS**	Batch ID: **71521**	RunNo: **92616**							
Prep Date: **11/15/2022**	Analysis Date: **11/16/2022**	SeqNo: **3332113**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.98		1.000		97.5	70	130			

Sample ID: **LCS-71521**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**							
Client ID: **LCSS**	Batch ID: **71521**	RunNo: **92616**							
Prep Date: **11/15/2022**	Analysis Date: **11/16/2022**	SeqNo: **3332114**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	1.000	0	98.2	80	120			
Toluene	1.0	0.050	1.000	0	100	80	120			
Ethylbenzene	1.0	0.050	1.000	0	100	80	120			
Xylenes, Total	3.0	0.10	3.000	0	101	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		99.8	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: R & R Environmental | Work Order Number: 2211797 | RcptNo: 1

Received By: Juan Rojas 11/15/2022 7:30:00 AM

Completed By: Sean Livingston 11/15/2022 8:20:01 AM

Reviewed By: KMH 11-15-22

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: JN 11/15/22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.3	Good				

Chain-of-Custody Record

Client: R & R Environmental

Mailing Address: 1505 W. Bullock
Artesia, NM 88210

Phone #: 575-616-9340

email or Fax#: Rene@rrenvironmental.net

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☐ Standard ☑ Rush 3 day

Project Name: Barry Miller Booster Station

Project #: 30000.005

Project Manager: James Carnes

Sampler: J Carnes

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp(Including CF): 0.3-0=0.3 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2211797	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
11/11/22	2:10	Soil	SW1A	Glass Jar/1	Ice/cool	001	X	X					X			

Analysis Request

Remarks: Email results: james@rrenvironmental.net
james.carnes@aol.com

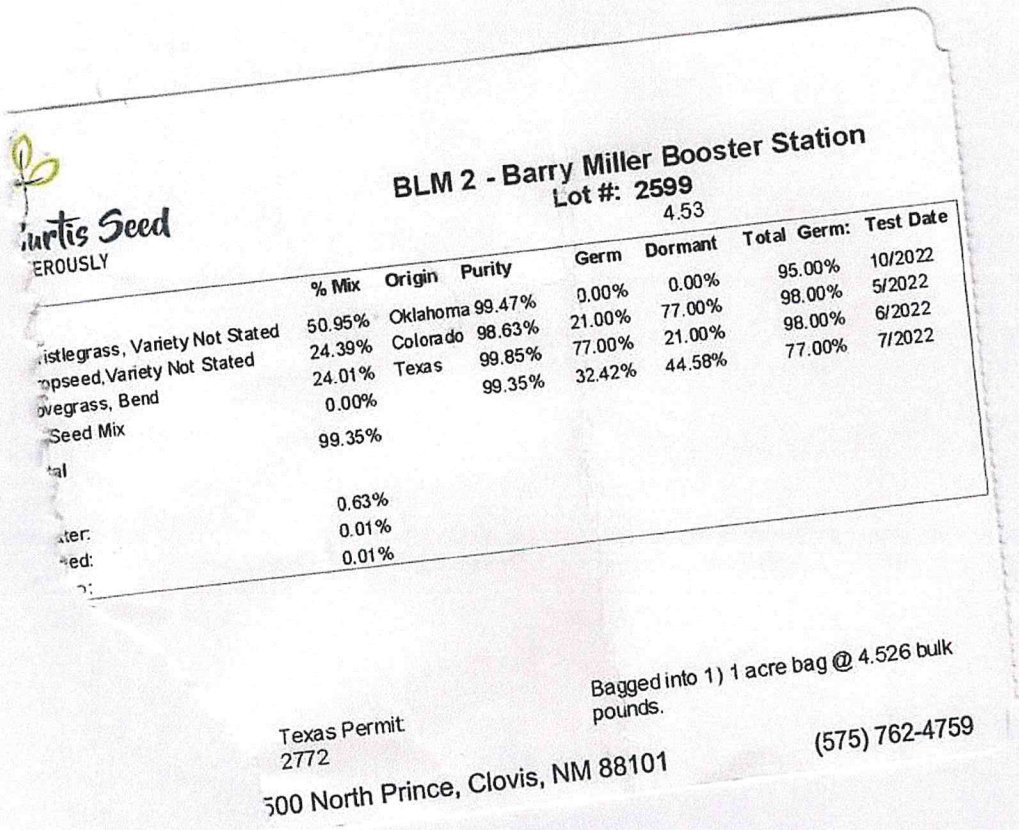
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
		James Barnes			11/14/22	1130
11/14/22	1900					

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
					11/15/22	7:30

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Appendix VI

Seed Tag



Curtis Seed
EROUSLY

BLM 2 - Barry Miller Booster Station
Lot #: 2599

4.53

	% Mix	Origin	Purity	Germ	Dormant	Total Germ:	Test Date
istlegrass, Variety Not Stated	50.95%	Oklahoma	99.47%	0.00%	0.00%	95.00%	10/2022
opseed,Variety Not Stated	24.39%	Colorado	98.63%	21.00%	77.00%	98.00%	5/2022
ovegrass, Bend	24.01%	Texas	99.85%	77.00%	21.00%	98.00%	6/2022
Seed Mix	0.00%		99.35%	32.42%	44.58%	77.00%	7/2022
tal	99.35%						
ter:	0.63%						
ed:	0.01%						
	0.01%						

Bagged into 1) 1 acre bag @ 4.526 bulk pounds.

Texas Permit 2772

500 North Prince, Clovis, NM 88101 (575) 762-4759

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 167725

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 167725
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NAPP2229363998 BARRY MILLER BOOSTER STATION, thank you. This closure is approved.	3/30/2023