Closure Report:

PLUC 1 Recycle Facility

Eddy County, New Mexico

Incident #nAPP2304147175

G-24-24S-30E

Prepared For:

Qwik Pipe

One Lincoln Center

Dallas, TX 75240

Prepared By:

BDS Enterprises

1705 E Greene St.

Carlsbad, NM 88220

December 19, 2023

Site Information

According to the C-141: on January 28, 2023, a produced water release occurred on the PLUC 1 (Plug 1) Recycle Facility when a water transfer company failed to open a valve which caused a failure in the lay flat line, releasing fluids to soil. The PLUC 1 is located in Rural Eddy County at the coordinates (32.20375, -103.83162), approximately 27 miles southeast of Carlsbad, NM. The NMOCD assigned this **Incident ID NAPP2304147175** Appendix I.

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 Berino complex with 0 to 3 percent slopes and a depth to restrictive feature of more than 80 inches. Per the New Mexico Bureau of Geology and Mineral Resources, the local geology consists of eolian and piedmont deposits, Holocene to middle Pleistocene in age, and composed of interlaid eolian sands and piedmont-slope deposits. The soil characterization of this site contains a certain level of natural salinity (2.0 to 4.0 mmhos/cm). Drainage courses in this area are typically well drained Appendix II. Based on the field scientist observation this site is located in a Dunal sand area whereby the soil is comprised primarily of eolian sand to depths of 6 ft. bgs.

Groundwater and Site Characterization

The New Mexico Office of the Stage Engineer Database indicates the nearest reported depth to groundwater is 105 feet below ground surface (bgs). Further research of the Bureau of Land Management Karst data indicates that this site is not situated in a Karst area. Appendix II. This site is not within 300 ft. of a watercourse or playa. It is not situated within a wetland area or flood zone.

Site Assessment

On March 14, 2023, BDS Enterprise personnel mobilized to the site to conduct an initial site assessment. The impacted area was mapped with a Trimble Geo-Explorer 6000 series and sampled with a hand auger. 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 8015 M/D and EPA Method 8015D), and BTEX (EPA Method 8021B). Sample Locations are show in Appendix II, and the results of our assessment sampling event are presented on Table 1. Full laboratory reports can be referenced in Appendix V.

December 18, 2023

Table I

3/14/2023 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	3/14/2023	0-1'	ND	ND	ND	ND	ND	0	7600
	3/14/2023	2'	ND	ND	ND	ND	ND	0	3300
	3/14/2023	3'	ND	ND	ND	ND	ND	0	2100
	3/14/2023	4'	ND	ND	ND	ND	ND	0	870
S-2	3/14/2023	0-1'	ND	ND	ND	ND	ND	0	3600
	3/14/2023	2'	ND	ND	ND	ND	ND	0	4000
	3/14/2023	3'	ND	ND	ND	ND	ND	0	4400
	3/14/2023	4'	ND	ND	ND	ND	ND	0	6600
S-3	3/14/2023	0-1'	ND	ND	ND	ND	ND	0	610
	3/14/2023	2'	ND	ND	ND	ND	ND	0	ND
	3/14/2023	3'	ND	ND	ND	ND	ND	0	69
	3/14/2023	4'	ND	ND	ND	ND	ND	0	ND
S-4	3/14/2023	0-1'	ND	ND	ND	ND	ND	0	ND
	3/14/2023	2'	ND	ND	ND	ND	ND	0	ND
	3/14/2023	3'	ND	ND	ND	ND	ND	0	ND
	3/14/2023	4'	ND	ND	ND	ND	ND	0	ND
BG-1	3/14/2023	0'	ND	ND	ND	34	ND	34	250
BG-2	3/14/2023	0'	ND	ND	ND	ND	ND	0	83
BG-3	3/14/2023	0'	ND	ND	ND	ND	ND	0	700
BG-4	3/14/2023	0'	ND	ND	ND	ND	ND	0	110
BG = Background Sample ND = Analyte Not Detected									

On May 2, 2023, based on the laboratory results from the initial site assessment and upon client authorization, BDS Enterprises personnel and equipment were mobilized to the site in order to complete vertical delineation. Using a geo-probe with geo-push technology BDS personnel advanced a borehole labeled as BH-2 between the S-1 and S-2 assessment sample positions. Borehole position will be included on the site map in Appendix II. Furthermore, site observations revealed that the infrastructure of this site had been greatly expanded with compressors, and several more high-pressure lines traversing the impacted area both at surface and subsurface levels as can be seen on the site map. Therefore, access to the area of S-1 was prohibited due to safety precautions. The laboratory results from the vertical delineation are recapped on the table below.

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Table II

5/2/2023 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
BH-2	5/2/2023	6'	NT	NT	NT	NT	NT	0	ND
	5/2/2023	8'	ND	ND	ND	ND	ND	0	ND
BH = Borehole Sample, NT = Analyte Not Tested, ND = Analyte Not Detected									

On October 27, 2023 BDS personnel electronically notified the NMOCD of a confirmation sampling event scheduled for November 01, 2023. Ms. Shelly Wells of the NMOCD confirmed the notification (Appendix I). Due to the number of high-pressure lines traversing the release footprint, and safety constraints, the area was Hydro-vacked to depths from 2 feet to 4 feet bgs. The remediation efforts were guided with field titration data. The north sidewalls were hand excavated and advanced to the extent that field data and laboratory confirmation data confirmed soil clean-up levels were in accordance with NMAC 19.24 guidelines. All soil samples were properly contained, preserved, and transported to Hall Laboratories for analyses of Chlorides, BTEX, and TPH. The complete results are tabled below.

Table III

Confirmation 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
S1A	11/1/2023	4'	ND	ND	ND	ND	ND	0	550
S2A	11/1/2023	4'	ND	ND	ND	ND	ND	0	130
S3A	11/1/2023	2'	ND	ND	ND	1000	ND	1000	380
	11/20/2023	4'	ND	ND	ND	ND	ND	0	100
S4A	11/1/2023	3'	ND	ND	ND	ND	ND	0	190
S5A	11/1/2023	4'	ND	ND	ND	ND	ND	0	270
S6A	11/20/2023	3'	ND	ND	ND	ND	ND	0	ND
SW1	11/1/2023	0-4'	ND	ND	ND	ND	ND	0	1100
SW1-A	11/20/2023	0-4'	ND	ND	ND	ND	ND	0	75
SW2	11/1/2023	0-3'	ND	ND	ND	ND	ND	0	2600
SW2-A	11/20/2023	0-3'	ND	ND	ND	ND	ND	0	74
SW3	11/1/2023	0-3'	ND	ND	ND	ND	ND	0	240
SW4	11/1/2023	0-4'	ND	ND	ND	ND	ND	0	380
SW5	11/20/2023	0-3'	ND	ND	ND	ND	ND	0	ND
SW6-A	11/20/2023	0-3'	ND	ND	ND	ND	ND	0	ND
SW7	11/20/2023	0-4'	ND	ND	ND	ND	ND	0	ND
SW8	11/20/2023	0-4'	ND	ND	ND	ND	ND	0	97
SW = Sidewall Sample ND = Analyte Not Detected									

Complete laboratory reports are attached to this report in Appendix V.

On November 20, 2023 the Site was backfilled to grade, terraced to Dunal feature and re-seeded.

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Remedial Actions

- Depth to groundwater was confirmed in accordance with NMOCD definitions at 105 feet bgs.
- The impacted area has been vertically and horizontally delineated.
- The upper 4 feet have been reclaimed in accordance with NMAC 19.15.29.13
- Requesting that no further action be required in the area of S-4 due to nominal impact.
- The Site has been backfilled with clean native locally sourced sand and re-seeded in accordance with BLM guidelines.
- An estimated 2,472 square feet of soil has been remediated.
- All contaminated soil was transported and disposed of at Delaware Basin Landfill (an NMOCD approved facility).

BDS Enterprises, on behalf of XTO and Qwik Pipe the responsible party, respectfully request closure of the regulatory file for this incident be granted.

Rebecca S. Pons,

Director of Environmental Services

Attached:

Appendix I	NMOCD C-141, & Sampling Notification
Appendix II	Site Maps
Appendix III	Groundwater Data, Soil Survey, & Wetlands Map
Appendix IV	Photographic Documentation
Appendix V	Laboratory Data

Appendix I

NMOCD-

C-141

BLM Correspondence

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	NAPP2304147175
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party XTO Energy	OGRID 5380
Contact Name Garrett Green	Contact Telephone 575-200-0729
Contact email garrett.green@exxonmobil.com	Incident # *(assigned by OCD)*
Contact mailing address 3104 E. Greene Street, Carlsbad, New Mexico, 88220	

Location of Release Source

Latitude 32.20375 Longitude -103.83162

(NAD 83 in decimal degrees to 5 decimal places)

Site Name PLUC 1 Recycle Facility	Site Type Recycle Facility
Date Release Discovered 1/28/2023	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
G	24	24S	30E	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) 385.11	Volume Recovered (bbls) 90.00
	Is the concentration of total dissolved solids (TDS) 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: Water transfer company failed to open a valve which caused a failure in the lay flat line, releasing fluids to soil. A third-party contractor has been retained for remediation purposes.

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State of New Mexico
Oil Conservation Division

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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? A release greater than 25 barrels.

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
Yes, by Garrett Green to ocd.enviro@emnrd.nm.gov; Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD;Harimon, Jocelyn, EMNRD on 1/29/2023 via email.

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:
NA

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: Garrett Green
Title: SSHE Coordinator
Signature: 
Date: 02/10/2023
email: garrett.green@exxonmobil.com
Telephone: 575-200-0729

OCD Only

Received by: Jocelyn Harimon
Date: 02/10/2023

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2304147175
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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?	105 (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.

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State of New Mexico
Oil Conservation Division

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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: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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Application ID	

Remediation Plan

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

- [x] Detailed description of proposed remediation technique
- [x] Scaled sitemap with GPS coordinates showing delineation points
- [x] Estimated volume of material to be remediated
- [x] Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- [x] 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: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

- [ ] Approved
- [ ] Approved with Attached Conditions of Approval
- [ ] Denied
- [ ] Deferral Approved

Signature: _____ Date: _____

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District RP	
Facility ID	
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.***

[x] A scaled site and sampling diagram as described in 19.15.29.11 NMAC

[x] 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)

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

[x] 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: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

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: _____

Location:	PLUC 1 Recycle Facility	
Spill Date:	1/28/2023	

Area 1		
Approximate Area =	4132.00	sq. ft.
Average Saturation (or depth) of spill =	6.00	inches
Average Porosity Factor =	0.15	
VOLUME OF LEAK		
Total Crude Oil =	0.00	bbls
Total Produced Water =	55.26	bbls

Area 2		
Approximate Area =	3690.00	sq. ft.
Average Saturation (or depth) of spill =	1.00	inches

Average Porosity Factor =	0.15	

VOLUME OF LEAK		
Total Crude Oil =	0.00	bbls
Total Produced Water =	8.28	bbls

Area 3		
Approximate Area =	6991.00	sq. ft.
Average Saturation (or depth) of spill =	4.00	inches

Average Porosity Factor =	0.15	

VOLUME OF LEAK		
Total Crude Oil =	0.00	bbls
Total Produced Water =	62.32	bbls

Area 4		
Approximate Area =	9503.00	sq. ft.
Average Saturation (or depth) of spill =	8.00	inches

Average Porosity Factor =	0.15	

VOLUME OF LEAK		
Total Crude Oil =	0.00	bbls
Total Produced Water =	259.25	bbls

TOTAL VOLUME OF LEAK		
Total Crude Oil =	**0.00**	**bbls**
Total Produced Water =	**385.11**	**bbls**

TOTAL VOLUME RECOVERED		
Total Crude Oil =	**0.00**	**bbls**
Total Produced Water =	**90.00**	**bbls**

jamesc@bdsoilfield.com

From: Taylor, Shelly J <sjtaylor@blm.gov>
Sent: Tuesday, May 23, 2023 12:58 PM
To: jamesc@bdsoilfield.com
Cc: 'BDS'
Subject: Re: [EXTERNAL] PLUC 1 work plan

BLM accepts you proposal and you are cleared to proceed.

Sincerely,

Shelly J Taylor
Environmental Protection Specialist
Realty - Compliance

Bureau of Land Management/Carlsbad Field Office
620 E. Greene St
Carlsbad, NM 88220
Direct 575.234.5706
Mobile 575.499.6831
sjtaylor@blm.gov

Spill/Release email: **BLM_NM_CFO_REALTY_SPILL@BLM.GOV**

PLEASE NOTE: I have a new email address: **sjtaylor@blm.gov**

From: jamesc@bdsoilfield.com <jamesc@bdsoilfield.com>
Sent: Friday, May 19, 2023 7:55 AM
To: Taylor, Shelly J <sjtaylor@blm.gov>
Cc: 'BDS' <rebecca@bdsoilfield.com>
Subject: [EXTERNAL] PLUC 1 work plan

Good Morning Shelly,

As per our conversation yesterday I have attached our work plan for the PLUC 1. We are asking for a deferral on the areas of S-1 to S-2 as they are covered by lines, as well as asking for permission to seat a liner at the position of BH-2.

Thank you,

rebecca@bdsoilfield.com

From: rebecca@bdsoilfield.com
Sent: Friday, October 27, 2023 4:16 PM
To: 'Shelly.wells@enmrd.nm.gov'
Subject: Incident ID NAPP2304147175

Good Afternoon,
BDS personnel will be on site at the Plug 1 ROW 1 facility for confirmation sampling on Wednesday Morning Nov. 01, 2023. Please accept this email as our notification.

Thank you,

Rebecca S. Pons
Director Environmental Services

O: 575.689.8324 | C: 575.441.0980 |
BDS Enterprises LLC
PO Box 2286
Carlsbad, NM 88221

Appendix II

Site Maps

Qwik PIpe PLUC 1	Eddy County, NM	Location Map

Qwik Pipe PLUC 1	Eddy County, NM	Karst Map

Topography Map

Eddy County, NM

Qwik Pipe
PLUC 1

Qwik PIpe PLUC 1	Eddy County, NM	Proposed Remediation Map

	Qwik Pipe	Eddy County, NM	PLUC 1 ROW 1 Lay Flat Line

Confirmation 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 03702 POD1		CUB	ED	4	1	4	24	24S	30E	610092	3563204	713	20		
C 03558 POD1		CUB	ED	1	2	2	25	24S	30E	610412	3562651	1317	20	0	20
C 03558 POD2		CUB	ED	1	2	2	25	24S	30E	610412	3562651	1317	20	0	20
C 03558 POD3		CUB	ED	1	2	2	25	24S	30E	610412	3562651	1317	25	0	25
C 03558 POD4		CUB	ED	1	2	2	25	24S	30E	610412	3562651	1317	25	0	25
C 03558 POD5		CUB	ED	1	2	2	25	24S	30E	610412	3562651	1317	30	0	30
C 02780		CUB	ED	2	3	2	23	24S	30E	608535	3563857*	1508	505		
C 02781		CUB	ED	4	3	2	23	24S	30E	608535	3563657*	1529	624		
C 02782		CUB	ED	4	3	2	23	24S	30E	608535	3563657*	1529	808		
C 04575 POD1		CUB	ED	1	1	2	23	24S	30E	608412	3564355	1688	105		
C 04478 POD1		CUB	ED	3	3	2	25	24S	30E	610077	3562041	1875	0	0	0
C 02110		CUB	ED		4	3	23	24S	30E	608036	3562950*	2227	600	400	200

Average Depth to Water: **57 feet**
Minimum Depth: **0 feet**
Maximum Depth: **400 feet**

Record Count: 12

UTMNAD83 Radius Search (in meters):

Easting (X): 610042.59 **Northing (Y):** 3563916 **Radius:** 3000

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

1/30/23 2:52 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
NA	C 04575 POD1	1	1	2	23	24S	30E	608412	3564355

Driller License: 1249 **Driller Company:** ATKINS ENGINEERING ASSOC. INC.

Driller Name: ATKINS, JACKIE D.UELENER

Drill Start Date:	01/04/2022	**Drill Finish Date:**	01/04/2022	**Plug Date:**	01/21/2022
Log File Date:	01/24/2022	**PCW Rcv Date:**		**Source:**	
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	0 GPM
Casing Size:	0.00	**Depth Well:**	105 feet	**Depth Water:**	

Casing Perforations:	Top	Bottom
	0	105

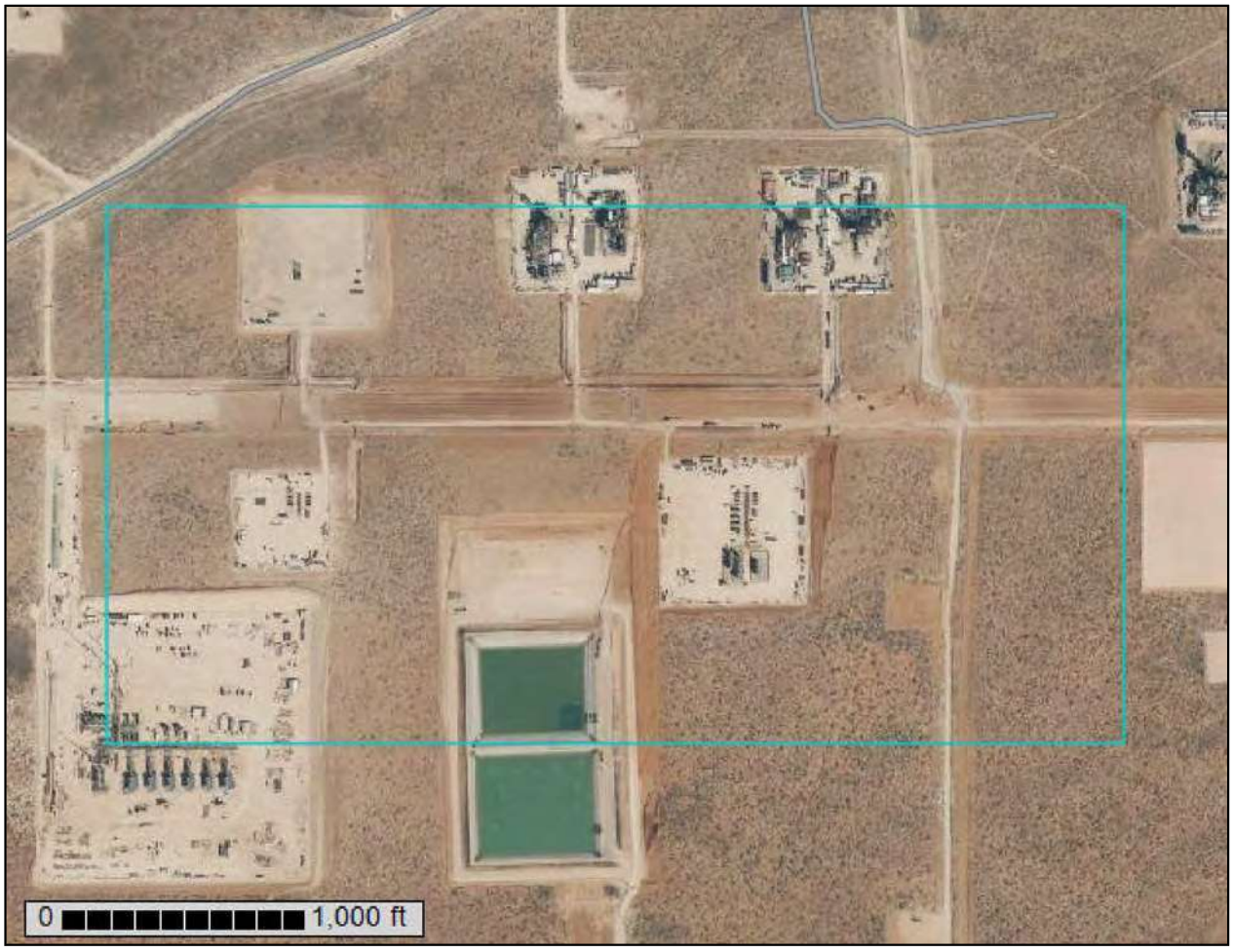
United States Department of Agriculture

NRCS

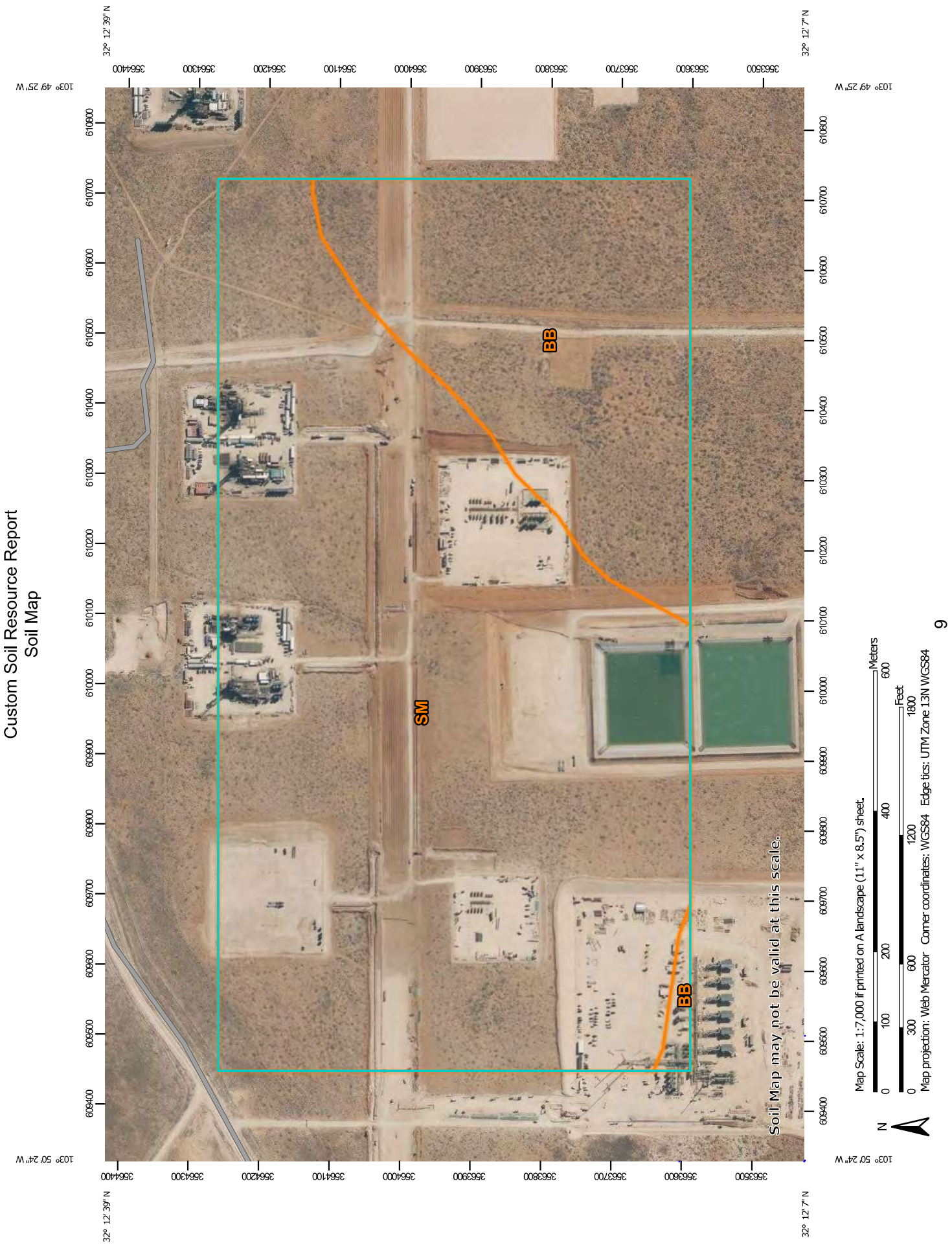
Natural Resources Conservation Service

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



January 30, 2023


Custom Soil Resource Report
Soil Map
SM
BB
BB
Soil Map may not be valid at this scale.
Map Scale: 1:7,000 if printed on A landscape (11" x 8.5") sheet.
Meters
Feet
Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 13N WGS84
N
32° 12' 39" N
32° 12' 7" N
103° 49' 25" W
103° 50' 24" W
609400
609500
609600
609700
609800
609900
610000
610100
610200
610300
610400
610500
610600
610700
610800
356400
356500
356600
356700
356800
356900
356400
356410
356420
356430
356440

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 7, 2020—May 12, 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

BB—Berino complex, 0 to 3 percent slopes, eroded

Map Unit Setting

National map unit symbol: 1w43
Elevation: 2,000 to 5,700 feet
Mean annual precipitation: 5 to 15 inches
Mean annual air temperature: 57 to 70 degrees F
Frost-free period: 180 to 260 days
Farmland classification: Not prime farmland

Map Unit Composition

Berino and similar soils: 60 percent
Pajarito and similar soils: 25 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Berino

Setting

Landform: Plains, fan piedmonts
Landform position (three-dimensional): Riser
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 17 inches: fine sand
H2 - 17 to 58 inches: sandy clay loam
H3 - 58 to 60 inches: loamy sand

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: 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: None
Frequency of ponding: None
Calcium carbonate, maximum content: 40 percent
Maximum salinity: Very slightly saline to slightly saline (2.0 to 4.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Moderate (about 8.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: B
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Description of Pajarito

Setting

Landform: Dunes, plains, interdunes
Landform position (three-dimensional): Side slope
Down-slope shape: Convex, linear
Across-slope shape: Convex, linear
Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 9 inches: loamy fine sand
H2 - 9 to 72 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 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): High (2.00 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 40 percent
Maximum salinity: Nonsaline (0.0 to 1.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Moderate (about 8.0 inches)

Interpretive groups

Land capability classification (irrigated): 2e
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: A
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Minor Components

Pajarito

Percent of map unit: 4 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Wink

Percent of map unit: 4 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Cacique

Percent of map unit: 4 percent
Ecological site: R070BD004NM - Sandy
Hydric soil rating: No

Kermit

Percent of map unit: 3 percent
Ecological site: R070BD005NM - Deep Sand
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

0 250 500 1,000 1,500 2,000 Feet

1:6,000

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

Legend

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

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

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, A of 1% annual chance flood with avera depth less than one foot or with drain areas of less than one square mile *Zo*
- 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 *Zon*

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 1/30/2023 at 5:01 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

Qwik Pipe
Plug 1

Impacted area at time of release.

Impacted area at time of release.

Aerial of Impacted area.

Aerial of Impacted area.

Qwik Pipe
Plug 1

Excavation of Impact Looking North

Excavation of Impact Looking South

Backfilled to Grade

Ripped and Seeded

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

March 24, 2023

Rebecca Pons
BDS Enterprises
1705 E Greene St
Carlsbad, NM 88220
TEL: (575) 441-0980
FAX:

RE: Plug 1 OrderNo.: 2303845

Dear Rebecca Pons:

Hall Environmental Analysis Laboratory received 20 sample(s) on 3/16/2023 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 **2303845**
Date Reported: **3/24/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: BDS Enterprises
Project: Plug 1
Lab ID: 2303845-001 **Matrix:** SOIL

Client Sample ID: S-1 0-1'
Collection Date: 3/14/2023 11:40:00 AM
Received Date: 3/16/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/20/2023 5:39:31 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/20/2023 5:39:31 PM
Surr: DNOP	93.1	69-147		%Rec	1	3/20/2023 5:39:31 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/20/2023 12:51:00 PM
Surr: BFB	89.2	37.7-212		%Rec	1	3/20/2023 12:51:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	3/20/2023 12:51:00 PM
Toluene	ND	0.048		mg/Kg	1	3/20/2023 12:51:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	3/20/2023 12:51:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	3/20/2023 12:51:00 PM
Surr: 4-Bromofluorobenzene	89.1	70-130		%Rec	1	3/20/2023 12:51:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **SNS**
Chloride	7600	300		mg/Kg	100	3/20/2023 5:46:02 PM

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 **2303845**
Date Reported: **3/24/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: BDS Enterprises
Client Sample ID: S-1 2'
Project: Plug 1
Collection Date: 3/14/2023 11:43:00 AM
Lab ID: 2303845-002 **Matrix:** SOIL **Received Date:** 3/16/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/20/2023 6:11:36 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/20/2023 6:11:36 PM
Surr: DNOP	95.3	69-147		%Rec	1	3/20/2023 6:11:36 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/20/2023 1:57:00 PM
Surr: BFB	91.3	37.7-212		%Rec	1	3/20/2023 1:57:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	3/20/2023 1:57:00 PM
Toluene	ND	0.047		mg/Kg	1	3/20/2023 1:57:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	3/20/2023 1:57:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	3/20/2023 1:57:00 PM
Surr: 4-Bromofluorobenzene	90.4	70-130		%Rec	1	3/20/2023 1:57:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **SNS**
Chloride	3300	150		mg/Kg	50	3/20/2023 5:58:23 PM

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 **2303845**
Date Reported: **3/24/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: BDS Enterprises
Client Sample ID: S-1 3'
Project: Plug 1
Collection Date: 3/14/2023 11:46:00 AM
Lab ID: 2303845-003 **Matrix:** SOIL **Received Date:** 3/16/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/20/2023 6:22:15 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/20/2023 6:22:15 PM
Surr: DNOP	95.0	69-147		%Rec	1	3/20/2023 6:22:15 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/20/2023 3:02:00 PM
Surr: BFB	90.4	37.7-212		%Rec	1	3/20/2023 3:02:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.023		mg/Kg	1	3/20/2023 3:02:00 PM
Toluene	ND	0.047		mg/Kg	1	3/20/2023 3:02:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	3/20/2023 3:02:00 PM
Xylenes, Total	ND	0.093		mg/Kg	1	3/20/2023 3:02:00 PM
Surr: 4-Bromofluorobenzene	87.8	70-130		%Rec	1	3/20/2023 3:02:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	2100	60		mg/Kg	20	3/18/2023 3:08:48 PM

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 **2303845**
Date Reported: **3/24/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: BDS Enterprises
Client Sample ID: S-1 4'
Project: Plug 1
Collection Date: 3/14/2023 11:49:00 AM
Lab ID: 2303845-004 **Matrix:** SOIL **Received Date:** 3/16/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	3/20/2023 6:32:56 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/20/2023 6:32:56 PM
Surr: DNOP	97.4	69-147		%Rec	1	3/20/2023 6:32:56 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/20/2023 3:24:00 PM
Surr: BFB	91.0	37.7-212		%Rec	1	3/20/2023 3:24:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	3/20/2023 3:24:00 PM
Toluene	ND	0.047		mg/Kg	1	3/20/2023 3:24:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	3/20/2023 3:24:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	3/20/2023 3:24:00 PM
Surr: 4-Bromofluorobenzene	86.7	70-130		%Rec	1	3/20/2023 3:24:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	870	60		mg/Kg	20	3/18/2023 3:21:09 PM

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 **2303845**
Date Reported: **3/24/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: BDS Enterprises
Project: Plug 1
Lab ID: 2303845-005 **Matrix:** SOIL

Client Sample ID: S-2 0-1'
Collection Date: 3/14/2023 11:55:00 AM
Received Date: 3/16/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/20/2023 6:43:33 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/20/2023 6:43:33 PM
Surr: DNOP	96.8	69-147		%Rec	1	3/20/2023 6:43:33 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/20/2023 3:45:00 PM
Surr: BFB	91.1	37.7-212		%Rec	1	3/20/2023 3:45:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	3/20/2023 3:45:00 PM
Toluene	ND	0.048		mg/Kg	1	3/20/2023 3:45:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	3/20/2023 3:45:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	3/20/2023 3:45:00 PM
Surr: 4-Bromofluorobenzene	86.7	70-130		%Rec	1	3/20/2023 3:45:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **SNS**
Chloride	3600	150		mg/Kg	50	3/20/2023 6:10:44 PM

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 **2303845**
Date Reported: **3/24/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: BDS Enterprises
Client Sample ID: S-2 2'
Project: Plug 1
Collection Date: 3/14/2023 11:58:00 AM
Lab ID: 2303845-006 **Matrix:** SOIL **Received Date:** 3/16/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/20/2023 6:54:06 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/20/2023 6:54:06 PM
Surr: DNOP	101	69-147		%Rec	1	3/20/2023 6:54:06 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/20/2023 4:07:00 PM
Surr: BFB	87.1	37.7-212		%Rec	1	3/20/2023 4:07:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.023		mg/Kg	1	3/20/2023 4:07:00 PM
Toluene	ND	0.047		mg/Kg	1	3/20/2023 4:07:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	3/20/2023 4:07:00 PM
Xylenes, Total	ND	0.093		mg/Kg	1	3/20/2023 4:07:00 PM
Surr: 4-Bromofluorobenzene	86.6	70-130		%Rec	1	3/20/2023 4:07:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **SNS**
Chloride	4000	150		mg/Kg	50	3/20/2023 6:23:04 PM

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 **2303845**
Date Reported: **3/24/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: BDS Enterprises
Client Sample ID: S-2 3'
Project: Plug 1
Collection Date: 3/14/2023 12:01:00 PM
Lab ID: 2303845-007 **Matrix:** SOIL **Received Date:** 3/16/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	3/20/2023 7:04:36 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/20/2023 7:04:36 PM
Surr: DNOP	99.9	69-147		%Rec	1	3/20/2023 7:04:36 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/20/2023 4:29:00 PM
Surr: BFB	87.5	37.7-212		%Rec	1	3/20/2023 4:29:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	3/20/2023 4:29:00 PM
Toluene	ND	0.049		mg/Kg	1	3/20/2023 4:29:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/20/2023 4:29:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	3/20/2023 4:29:00 PM
Surr: 4-Bromofluorobenzene	87.2	70-130		%Rec	1	3/20/2023 4:29:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **SNS**
Chloride	4400	150		mg/Kg	50	3/20/2023 6:35:25 PM

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 **2303845**
Date Reported: **3/24/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: BDS Enterprises
Project: Plug 1
Lab ID: 2303845-008 **Matrix:** SOIL

Client Sample ID: S-2 4'
Collection Date: 3/14/2023 12:04:00 PM
Received Date: 3/16/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/20/2023 7:15:05 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/20/2023 7:15:05 PM
Surr: DNOP	93.6	69-147		%Rec	1	3/20/2023 7:15:05 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/20/2023 4:51:00 PM
Surr: BFB	92.0	37.7-212		%Rec	1	3/20/2023 4:51:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.023		mg/Kg	1	3/20/2023 4:51:00 PM
Toluene	ND	0.047		mg/Kg	1	3/20/2023 4:51:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	3/20/2023 4:51:00 PM
Xylenes, Total	ND	0.093		mg/Kg	1	3/20/2023 4:51:00 PM
Surr: 4-Bromofluorobenzene	88.4	70-130		%Rec	1	3/20/2023 4:51:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **SNS**
Chloride	6600	300		mg/Kg	100	3/20/2023 6:47:45 PM

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 **2303845**
Date Reported: **3/24/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: BDS Enterprises
Client Sample ID: S-3 0-1'
Project: Plug 1
Collection Date: 3/14/2023 12:10:00 PM
Lab ID: 2303845-009 **Matrix:** SOIL **Received Date:** 3/16/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	3/20/2023 7:25:31 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	3/20/2023 7:25:31 PM
Surr: DNOP	95.9	69-147		%Rec	1	3/20/2023 7:25:31 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/20/2023 5:13:00 PM
Surr: BFB	86.8	37.7-212		%Rec	1	3/20/2023 5:13:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	3/20/2023 5:13:00 PM
Toluene	ND	0.049		mg/Kg	1	3/20/2023 5:13:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/20/2023 5:13:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	3/20/2023 5:13:00 PM
Surr: 4-Bromofluorobenzene	88.5	70-130		%Rec	1	3/20/2023 5:13:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	610	60		mg/Kg	20	3/18/2023 4:47:35 PM

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 **2303845**
Date Reported: **3/24/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: BDS Enterprises
Client Sample ID: S-3 2'
Project: Plug 1
Collection Date: 3/14/2023 12:13:00 PM
Lab ID: 2303845-010 **Matrix:** SOIL **Received Date:** 3/16/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/20/2023 7:35:57 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/20/2023 7:35:57 PM
Surr: DNOP	94.4	69-147		%Rec	1	3/20/2023 7:35:57 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/20/2023 5:35:00 PM
Surr: BFB	90.4	37.7-212		%Rec	1	3/20/2023 5:35:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	3/20/2023 5:35:00 PM
Toluene	ND	0.049		mg/Kg	1	3/20/2023 5:35:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/20/2023 5:35:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	3/20/2023 5:35:00 PM
Surr: 4-Bromofluorobenzene	89.7	70-130		%Rec	1	3/20/2023 5:35:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	ND	60		mg/Kg	20	3/18/2023 4:59:56 PM

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 **2303845**
Date Reported: **3/24/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: BDS Enterprises
Client Sample ID: S-3 3'
Project: Plug 1
Collection Date: 3/14/2023 12:16:00 PM
Lab ID: 2303845-011 **Matrix:** SOIL **Received Date:** 3/16/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	3/20/2023 7:46:22 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/20/2023 7:46:22 PM
Surr: DNOP	96.5	69-147		%Rec	1	3/20/2023 7:46:22 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/20/2023 6:18:00 PM
Surr: BFB	86.1	37.7-212		%Rec	1	3/20/2023 6:18:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	3/20/2023 6:18:00 PM
Toluene	ND	0.049		mg/Kg	1	3/20/2023 6:18:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/20/2023 6:18:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	3/20/2023 6:18:00 PM
Surr: 4-Bromofluorobenzene	84.6	70-130		%Rec	1	3/20/2023 6:18:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	69	59		mg/Kg	20	3/18/2023 5:12:16 PM

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 **2303845**
Date Reported: **3/24/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: BDS Enterprises
Client Sample ID: S-3 4'
Project: Plug 1
Collection Date: 3/14/2023 12:19:00 PM
Lab ID: 2303845-012 **Matrix:** SOIL **Received Date:** 3/16/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	3/20/2023 7:56:45 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/20/2023 7:56:45 PM
Surr: DNOP	91.9	69-147		%Rec	1	3/20/2023 7:56:45 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/20/2023 6:40:00 PM
Surr: BFB	85.4	37.7-212		%Rec	1	3/20/2023 6:40:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	3/20/2023 6:40:00 PM
Toluene	ND	0.049		mg/Kg	1	3/20/2023 6:40:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/20/2023 6:40:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	3/20/2023 6:40:00 PM
Surr: 4-Bromofluorobenzene	85.1	70-130		%Rec	1	3/20/2023 6:40:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	ND	60		mg/Kg	20	3/18/2023 5:24:37 PM

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 **2303845**
Date Reported: **3/24/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: BDS Enterprises
Client Sample ID: S-4 0-1'
Project: Plug 1
Collection Date: 3/14/2023 12:25:00 PM
Lab ID: 2303845-013 **Matrix:** SOIL **Received Date:** 3/16/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	3/20/2023 8:07:07 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/20/2023 8:07:07 PM
Surr: DNOP	93.9	69-147		%Rec	1	3/20/2023 8:07:07 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/20/2023 7:02:00 PM
Surr: BFB	90.4	37.7-212		%Rec	1	3/20/2023 7:02:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	3/20/2023 7:02:00 PM
Toluene	ND	0.049		mg/Kg	1	3/20/2023 7:02:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/20/2023 7:02:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	3/20/2023 7:02:00 PM
Surr: 4-Bromofluorobenzene	86.7	70-130		%Rec	1	3/20/2023 7:02:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	ND	61		mg/Kg	20	3/18/2023 5:36:57 PM

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 **2303845**
Date Reported: **3/24/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: BDS Enterprises
Client Sample ID: S-4 2'
Project: Plug 1
Collection Date: 3/14/2023 12:28:00 PM
Lab ID: 2303845-014 **Matrix:** SOIL **Received Date:** 3/16/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/20/2023 8:17:33 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/20/2023 8:17:33 PM
Surr: DNOP	97.4	69-147		%Rec	1	3/20/2023 8:17:33 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/20/2023 7:23:00 PM
Surr: BFB	84.8	37.7-212		%Rec	1	3/20/2023 7:23:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	3/20/2023 7:23:00 PM
Toluene	ND	0.048		mg/Kg	1	3/20/2023 7:23:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	3/20/2023 7:23:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	3/20/2023 7:23:00 PM
Surr: 4-Bromofluorobenzene	84.2	70-130		%Rec	1	3/20/2023 7:23:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	ND	60		mg/Kg	20	3/18/2023 5:49:17 PM

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 **2303845**
Date Reported: **3/24/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: BDS Enterprises
Project: Plug 1
Lab ID: 2303845-015 **Matrix:** SOIL

Client Sample ID: S-4 3'
Collection Date: 3/14/2023 12:31:00 PM
Received Date: 3/16/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	3/20/2023 8:27:57 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/20/2023 8:27:57 PM
Surr: DNOP	95.3	69-147		%Rec	1	3/20/2023 8:27:57 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/20/2023 7:45:00 PM
Surr: BFB	88.9	37.7-212		%Rec	1	3/20/2023 7:45:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	3/20/2023 7:45:00 PM
Toluene	ND	0.049		mg/Kg	1	3/20/2023 7:45:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/20/2023 7:45:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	3/20/2023 7:45:00 PM
Surr: 4-Bromofluorobenzene	86.3	70-130		%Rec	1	3/20/2023 7:45:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	ND	60		mg/Kg	20	3/18/2023 6:01:38 PM

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 **2303845**
Date Reported: **3/24/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: BDS Enterprises
Client Sample ID: S-4 4'
Project: Plug 1
Collection Date: 3/14/2023 12:34:00 PM
Lab ID: 2303845-016 **Matrix:** SOIL **Received Date:** 3/16/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/20/2023 8:38:20 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/20/2023 8:38:20 PM
Surr: DNOP	95.5	69-147		%Rec	1	3/20/2023 8:38:20 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	3/20/2023 8:07:00 PM
Surr: BFB	89.2	37.7-212		%Rec	1	3/20/2023 8:07:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.023		mg/Kg	1	3/20/2023 8:07:00 PM
Toluene	ND	0.046		mg/Kg	1	3/20/2023 8:07:00 PM
Ethylbenzene	ND	0.046		mg/Kg	1	3/20/2023 8:07:00 PM
Xylenes, Total	ND	0.092		mg/Kg	1	3/20/2023 8:07:00 PM
Surr: 4-Bromofluorobenzene	87.4	70-130		%Rec	1	3/20/2023 8:07:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	ND	60		mg/Kg	20	3/18/2023 6:13:59 PM

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 **2303845**
Date Reported: **3/24/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: BDS Enterprises
Client Sample ID: BG-1 0'
Project: Plug 1
Collection Date: 3/14/2023 12:40:00 PM
Lab ID: 2303845-017 **Matrix:** SOIL **Received Date:** 3/16/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	34	9.9		mg/Kg	1	3/20/2023 8:48:42 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/20/2023 8:48:42 PM
Surr: DNOP	99.3	69-147		%Rec	1	3/20/2023 8:48:42 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/20/2023 8:29:00 PM
Surr: BFB	93.6	37.7-212		%Rec	1	3/20/2023 8:29:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	3/20/2023 8:29:00 PM
Toluene	ND	0.047		mg/Kg	1	3/20/2023 8:29:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	3/20/2023 8:29:00 PM
Xylenes, Total	ND	0.094		mg/Kg	1	3/20/2023 8:29:00 PM
Surr: 4-Bromofluorobenzene	90.2	70-130		%Rec	1	3/20/2023 8:29:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	250	60		mg/Kg	20	3/18/2023 6:26:20 PM

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 **2303845**
Date Reported: **3/24/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: BDS Enterprises
Client Sample ID: BG-2 0'
Project: Plug 1
Collection Date: 3/14/2023 12:45:00 PM
Lab ID: 2303845-018 **Matrix:** SOIL **Received Date:** 3/16/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	3/20/2023 8:59:08 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/20/2023 8:59:08 PM
Surr: DNOP	99.7	69-147		%Rec	1	3/20/2023 8:59:08 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/20/2023 8:50:00 PM
Surr: BFB	89.3	37.7-212		%Rec	1	3/20/2023 8:50:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	3/20/2023 8:50:00 PM
Toluene	ND	0.049		mg/Kg	1	3/20/2023 8:50:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/20/2023 8:50:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	3/20/2023 8:50:00 PM
Surr: 4-Bromofluorobenzene	87.9	70-130		%Rec	1	3/20/2023 8:50:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	83	60		mg/Kg	20	3/18/2023 6:38:40 PM

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 **2303845**
Date Reported: **3/24/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: BDS Enterprises
Client Sample ID: BG-3 0'
Project: Plug 1
Collection Date: 3/14/2023 12:50:00 PM
Lab ID: 2303845-019 **Matrix:** SOIL **Received Date:** 3/16/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/20/2023 9:09:37 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/20/2023 9:09:37 PM
Surr: DNOP	98.5	69-147		%Rec	1	3/20/2023 9:09:37 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/20/2023 9:12:00 PM
Surr: BFB	90.4	37.7-212		%Rec	1	3/20/2023 9:12:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.023		mg/Kg	1	3/20/2023 9:12:00 PM
Toluene	ND	0.047		mg/Kg	1	3/20/2023 9:12:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	3/20/2023 9:12:00 PM
Xylenes, Total	ND	0.094		mg/Kg	1	3/20/2023 9:12:00 PM
Surr: 4-Bromofluorobenzene	86.8	70-130		%Rec	1	3/20/2023 9:12:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	700	60		mg/Kg	20	3/18/2023 7:15:44 PM

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 **2303845**
Date Reported: **3/24/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: BDS Enterprises
Client Sample ID: BG-4 0'
Project: Plug 1
Collection Date: 3/14/2023 12:55:00 PM
Lab ID: 2303845-020 **Matrix:** SOIL **Received Date:** 3/16/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/20/2023 9:20:08 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/20/2023 9:20:08 PM
Surr: DNOP	104	69-147		%Rec	1	3/20/2023 9:20:08 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/20/2023 9:34:00 PM
Surr: BFB	87.0	37.7-212		%Rec	1	3/20/2023 9:34:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	3/20/2023 9:34:00 PM
Toluene	ND	0.049		mg/Kg	1	3/20/2023 9:34:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/20/2023 9:34:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	3/20/2023 9:34:00 PM
Surr: 4-Bromofluorobenzene	86.5	70-130		%Rec	1	3/20/2023 9:34:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	110	60		mg/Kg	20	3/18/2023 7:28:04 PM

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#: **2303845**

24-Mar-23

Client: BDS Enterprises

Project: Plug 1

Sample ID: **MB-73790**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **73790**	RunNo: **95382**
Prep Date: **3/18/2023**	Analysis Date: **3/18/2023**	SeqNo: **3450286** Units: **mg/Kg**

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

Sample ID: **LCS-73790**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **73790**	RunNo: **95382**
Prep Date: **3/18/2023**	Analysis Date: **3/18/2023**	SeqNo: **3450287** 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.	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#: **2303845**

24-Mar-23

Client: BDS Enterprises

Project: Plug 1

Sample ID: **MB-73773**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **PBS**	Batch ID: **73773**	RunNo: **95380**							
Prep Date: **3/17/2023**	Analysis Date: **3/20/2023**	SeqNo: **3450240**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.8		10.00		87.7	69	147			

Sample ID: **LCS-73773**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **LCSS**	Batch ID: **73773**	RunNo: **95380**							
Prep Date: **3/17/2023**	Analysis Date: **3/20/2023**	SeqNo: **3450242**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.6		5.000		91.5	69	147			

Sample ID: **MB-73787**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **PBS**	Batch ID: **73787**	RunNo: **95380**							
Prep Date: **3/17/2023**	Analysis Date: **3/20/2023**	SeqNo: **3451354**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.2		10.00		92.5	69	147			

Sample ID: **LCS-73787**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **LCSS**	Batch ID: **73787**	RunNo: **95380**							
Prep Date: **3/17/2023**	Analysis Date: **3/20/2023**	SeqNo: **3451355**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	92.8	61.9	130			
Surr: DNOP	5.0		5.000		100	69	147			

Sample ID: **2303845-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **S-1 0-1'**	Batch ID: **73787**	RunNo: **95380**							
Prep Date: **3/17/2023**	Analysis Date: **3/20/2023**	SeqNo: **3451390**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	9.6	47.94	0	96.5	54.2	135			
Surr: DNOP	4.9		4.794		103	69	147			

Sample ID: **2303845-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **S-1 0-1'**	Batch ID: **73787**	RunNo: **95380**							
Prep Date: **3/17/2023**	Analysis Date: **3/20/2023**	SeqNo: **3451392**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	9.6	47.98	0	94.0	54.2	135	2.55	29.2	

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#: **2303845**

24-Mar-23

Client: BDS Enterprises

Project: Plug 1

Sample ID: **2303845-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **S-1 0-1'**	Batch ID: **73787**	RunNo: **95380**
Prep Date: **3/17/2023**	Analysis Date: **3/20/2023**	SeqNo: **3451392** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.8		4.798		99.1	69	147	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.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2303845**

24-Mar-23

Client: BDS Enterprises

Project: Plug 1

Sample ID: **lcs-73768**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **73768**	RunNo: **95405**
Prep Date: **3/16/2023**	Analysis Date: **3/20/2023**	SeqNo: **3451463** 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	91.6	70	130			
Surr: BFB	2100		1000		207	37.7	212			

Sample ID: **mb-73768**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **73768**	RunNo: **95405**
Prep Date: **3/16/2023**	Analysis Date: **3/20/2023**	SeqNo: **3451464** 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	890		1000		89.0	37.7	212			

Sample ID: **2303845-001ams**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **S-1 0-1'**	Batch ID: **73768**	RunNo: **95405**
Prep Date: **3/16/2023**	Analysis Date: **3/20/2023**	SeqNo: **3451466** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	4.7	23.70	0	90.5	70	130			
Surr: BFB	2000		947.9		208	37.7	212			

Sample ID: **2303845-001amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **S-1 0-1'**	Batch ID: **73768**	RunNo: **95405**
Prep Date: **3/16/2023**	Analysis Date: **3/20/2023**	SeqNo: **3451467** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.8	23.79	0	92.0	70	130	2.05	20	
Surr: BFB	1900		951.5		202	37.7	212	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.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2303845**

24-Mar-23

Client: BDS Enterprises

Project: Plug 1

Sample ID: **lcs-73768**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **73768**	RunNo: **95405**
Prep Date: **3/16/2023**	Analysis Date: **3/20/2023**	SeqNo: **3451559** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	90.1	80	120			
Toluene	0.90	0.050	1.000	0	90.2	80	120			
Ethylbenzene	0.89	0.050	1.000	0	88.7	80	120			
Xylenes, Total	2.6	0.10	3.000	0	87.9	80	120			
Surr: 4-Bromofluorobenzene	0.92		1.000		91.8	70	130			

Sample ID: **mb-73768**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **73768**	RunNo: **95405**
Prep Date: **3/16/2023**	Analysis Date: **3/20/2023**	SeqNo: **3451560** 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	0.89		1.000		88.9	70	130			

Sample ID: **2303845-002ams**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **S-1 2'**	Batch ID: **73768**	RunNo: **95405**
Prep Date: **3/16/2023**	Analysis Date: **3/20/2023**	SeqNo: **3451563** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.024	0.9479	0	88.8	68.8	120			
Toluene	0.84	0.047	0.9479	0	88.7	73.6	124			
Ethylbenzene	0.84	0.047	0.9479	0	88.4	72.7	129			
Xylenes, Total	2.5	0.095	2.844	0	87.7	75.7	126			
Surr: 4-Bromofluorobenzene	0.84		0.9479		88.8	70	130			

Sample ID: **2303845-002amsd**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **S-1 2'**	Batch ID: **73768**	RunNo: **95405**
Prep Date: **3/16/2023**	Analysis Date: **3/20/2023**	SeqNo: **3451564** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.024	0.9533	0	89.6	68.8	120	1.48	20	
Toluene	0.87	0.048	0.9533	0	91.1	73.6	124	3.26	20	
Ethylbenzene	0.87	0.048	0.9533	0	90.8	72.7	129	3.17	20	
Xylenes, Total	2.6	0.095	2.860	0	90.4	75.7	126	3.55	20	
Surr: 4-Bromofluorobenzene	0.85		0.9533		89.5	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: BDS Enterprises | Work Order Number: 2303845 | RcptNo: 1

Received By: Desiree Dominguez 3/16/2023 8:00:00 AM

Completed By: Sean Livingston 3/16/2023 9:21:15 AM

Reviewed By: JS 3-16-23

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: SL 3/16/23

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	1.6	Good	Not Present	Morty		

Chain-of-Custody Record

Client: BDS Environmental

Mailing Address: 1705 Greene St

Carlsbad N.M 88220

Phone: 575 247-1106

email or Fax#: rebecca@bdsoilfield.com jamesc@bd

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:

☒ Standard ☐ Rush 5-Day

Project Name:

Plug 1

Project #:

Project Manager:

Rebbeca Pons

J. Carnes

On Ice: ☒ Yes ☐ No

# of Coolers: 1 • Morty

Cooler Temp(including CF): 1.7-0.1=1.6°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. 2303845	Analysis Request: Chlorides	TPH	BTEX
3/14/2023	11:40	Soil	S-1 0-1'	Glass Jar/1	Ice/Cool	001	X	X	X
3/14/2023	11:43	Soil	S-1 2'	Glass Jar/1	Ice/Cool	002	X	X	X
3/14/2023	11:46	Soil	S-1 3'	Glass Jar/1	Ice/Cool	003	X	X	X
3/14/2023	11:49	Soil	S-1 4'	Glass Jar/1	Ice/Cool	004	X	X	X
3/14/2023	11:55	Soil	S-2 0-1'	Glass Jar/1	Ice/Cool	005	X	X	X
3/14/2023	11:58	Soil	S-2 2'	Glass Jar/1	Ice/Cool	006	X	X	X
3/14/2023	12:01	Soil	S-2 3'	Glass Jar/1	Ice/Cool	007	X	X	X
3/14/2023	12:04	Soil	S-2 4'	Glass Jar/1	Ice/Cool	008	X	X	X
3/14/2023	12:10	Soil	S-3 0-1'	Glass Jar/1	Ice/Cool	009	X	X	X
3/14/2023	12:13	Soil	S-3 2'	Glass Jar/1	Ice/Cool	010	X	X	X
3/14/2023	12:16	Soil	S-3 3'	Glass Jar/1	Ice/Cool	011	X	X	X
3/14/2023	12:19	Soil	S-3 4'	Glass Jar/1	Ice/Cool	012	X	X	X

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
3/15/23	800				3/15/23	800
3/15/23	1900			Courier	3/16/23	8:00

Remarks: Email Results to: rebecca@bdsoilfield.com, jamesc@bdsoilfield.com Page 1/2

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: BDS Environmental

Mailing Address: 1705 Greene St

Carlsbad N.M 88220

Phone: 575 247-1106

email or Fax#: rebecca@bdsoilfield.com,jamesc@bd

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:

☒ Standard ☒ Rush 5-Day

Project Name:

Plug 1

Project #:

Project Manager:

Rebbeca Pons

J. Carnes

On Ice: ☒ Yes ☐ No

# of Coolers: 1 Mostly

Cooler Temp(including CF): 1.7 - 0.1 = 1.6°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.	Analysis Request: Chlorides	TPH	BTEX
3/14/2023	12:25	Soil	S-4 0-1'	Glass Jar/1	Ice/Cool	013	X	X	X
3/14/2023	12:28	Soil	S-4 2'	Glass Jar/1	Ice/Cool	014	X	X	X
3/14/2023	12:31	Soil	S-4 3'	Glass Jar/1	Ice/Cool	015	X	X	X
3/14/2023	12:34	Soil	S-4 4'	Glass Jar/1	Ice/Cool	016	X	X	X
3/14/2023	12:40	Soil	BG-1 0'	Glass Jar/1	Ice/Cool	017	X	X	X
3/14/2023	12:45	Soil	BG-2 0'	Glass Jar/1	Ice/Cool	018	X	X	X
3/14/2023	12:50	Soil	BG-3 0'	Glass Jar/1	Ice/Cool	019	X	X	X
3/14/2023	12:55	Soil	BG-4 0'	Glass Jar/1	Ice/Cool	020	X	X	X
			per Sample Container Set Ticket						

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
3/15/23	800				3/15/23	800
Date: 3/15/23	Time: 1900	Relinquished by:	Received by:	Via:	Date	Time

Remarks: Email Results to: rebecca@bdsoilfield.com, jamesc@bdsoilfield.com Page 2/2

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

May 10, 2023

Rebecca Pons
BDS Enterprises
1705 E Greene St
Carlsbad, NM 88220
TEL: (575) 441-0980
FAX:

RE: Plug 1 OrderNo.: 2305200

Dear Rebecca Pons:

Hall Environmental Analysis Laboratory received 2 sample(s) on 5/4/2023 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 **2305200**
Date Reported: **5/10/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: BDS Enterprises
Project: Plug 1
Lab ID: 2305200-001 **Matrix:** SOIL

Client Sample ID: BH-2 6'
Collection Date: 5/2/2023 12:25:00 PM
Received Date: 5/4/2023 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **JTT**
Chloride	ND	60		mg/Kg	20	5/6/2023 2:00:40 AM

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 **2305200**
Date Reported: **5/10/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: BDS Enterprises
Client Sample ID: BH-2 8'
Project: Plug 1
Collection Date: 5/2/2023 12:35:00 PM
Lab ID: 2305200-002 **Matrix:** SOIL **Received Date:** 5/4/2023 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	5/5/2023 1:18:43 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/5/2023 1:18:43 PM
Surr: DNOP	83.2	69-147		%Rec	1	5/5/2023 1:18:43 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/5/2023 11:50:21 PM
Surr: BFB	64.5	15-244		%Rec	1	5/5/2023 11:50:21 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	5/5/2023 11:50:21 PM
Toluene	ND	0.049		mg/Kg	1	5/5/2023 11:50:21 PM
Ethylbenzene	ND	0.049		mg/Kg	1	5/5/2023 11:50:21 PM
Xylenes, Total	ND	0.098		mg/Kg	1	5/5/2023 11:50:21 PM
Surr: 4-Bromofluorobenzene	86.3	39.1-146		%Rec	1	5/5/2023 11:50:21 PM
EPA METHOD 300.0: ANIONS						Analyst: **JTT**
Chloride	ND	60		mg/Kg	20	5/6/2023 2:13:00 AM

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#: **2305200**

10-May-23

Client: BDS Enterprises

Project: Plug 1

Sample ID: **MB-74793**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **74793**	RunNo: **96564**
Prep Date: **5/5/2023**	Analysis Date: **5/5/2023**	SeqNo: **3501011** Units: **mg/Kg**

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

Sample ID: **LCS-74793**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **74793**	RunNo: **96564**
Prep Date: **5/5/2023**	Analysis Date: **5/5/2023**	SeqNo: **3501012** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.2	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#: **2305200**

10-May-23

Client: BDS Enterprises

Project: Plug 1

Sample ID: **LCS-74769**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **74769**	RunNo: **96542**
Prep Date: **5/5/2023**	Analysis Date: **5/5/2023**	SeqNo: **3500877** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	10	50.00	0	80.7	61.9	130			
Surr: DNOP	4.4		5.000		87.3	69	147			

Sample ID: **MB-74769**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **74769**	RunNo: **96542**
Prep Date: **5/5/2023**	Analysis Date: **5/5/2023**	SeqNo: **3500878** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	7.0		10.00		69.8	69	147			

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#: **2305200**

10-May-23

Client: BDS Enterprises

Project: Plug 1

Sample ID: **lcs-74764**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **74764**	RunNo: **96553**							
Prep Date: **5/4/2023**	Analysis Date: **5/5/2023**	SeqNo: **3501809**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	86.2	70	130			
Surr: BFB	4800		1000		480	15	244			S

Sample ID: **mb-74764**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **74764**	RunNo: **96553**							
Prep Date: **5/4/2023**	Analysis Date: **5/5/2023**	SeqNo: **3501810**	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	810		1000		81.5	15	244			

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#: **2305200**

10-May-23

Client: BDS Enterprises

Project: Plug 1

Sample ID: **LCS-74764**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **74764**	RunNo: **96553**
Prep Date: **5/4/2023**	Analysis Date: **5/5/2023**	SeqNo: **3501872** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.025	1.000	0	86.5	70	130			
Toluene	0.89	0.050	1.000	0	89.4	70	130			
Ethylbenzene	0.89	0.050	1.000	0	88.8	70	130			
Xylenes, Total	2.7	0.10	3.000	0	89.7	70	130			
Surr: 4-Bromofluorobenzene	0.90		1.000		89.8	39.1	146			

Sample ID: **mb-74764**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **74764**	RunNo: **96553**
Prep Date: **5/4/2023**	Analysis Date: **5/5/2023**	SeqNo: **3501873** 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		89.9	39.1	146			

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: BDS Enterprises | Work Order Number: 2305200 | RcptNo: 1

Received By: Tracy Casarrubias 5/4/2023 7:20:00 AM

Completed By: Tracy Casarrubias 5/4/2023 8:07:02 AM

Reviewed By: JM 5/4/23

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: TMC 5/4/23

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: Mailing address and phone number are missing on COC - TMC 5/4/23

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.1	Good	Yes	Yogi		

Chain-of-Custody Record

Client: BDS Enterprises

Mailing Address:

Phone #:

email or Fax#: rebecca@bdsoilfield.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: Plug 1

Project #:

Project Manager: Rebecca Pons

Sampler: J. Carnes, A. Parra

On Ice: ☒ Yes ☐ No (4°C)

# of Coolers: 1

Cooler Temp(including CF): 5.0+0.1=5.1 (°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. 2305200	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	F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
5-2-23	12:25	Soil	BH-2 6'	Jar/1	Ice/Cool	001							X			
5-2-23	12:35	Soil	BH-2 8'	Jar/1	Ice/Cool	002	X	X					X			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
5/3/23	1030				5/3/23	1030
5/3/23	1900			courier	5/4/23	7:20

Remarks: Email results
janesc@bdsoilfield.com
rebecca@bdsoilfield.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.

eurofins | Environment Testing

Eurofins Environment Testing South Central, LLC
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

November 17, 2023

Rebecca Pons
BDS Enterprises
1705 E Greene St
Carlsbad, NM 88220
TEL: (575) 441-0980
FAX:

RE: Plug 1 OrderNo.: 2311219

Dear Rebecca Pons:

Eurofins Environment Testing South Central, LLC received 9 sample(s) on 11/4/2023 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 do not hesitate to contact Eurofins Albuquerque 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 **2311219**
Date Reported: **11/17/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: BDS Enterprises
Project: Plug 1
Lab ID: 2311219-001 **Matrix:** SOIL

Client Sample ID: S1A 4'
Collection Date: 11/1/2023 9:00:00 AM
Received Date: 11/4/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **mb**
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	11/11/2023 1:23:19 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/11/2023 1:23:19 AM
Surr: DNOP	116	69-147		%Rec	1	11/11/2023 1:23:19 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/13/2023 2:34:00 PM
Surr: BFB	102	15-244		%Rec	1	11/13/2023 2:34:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.024		mg/Kg	1	11/13/2023 2:34:00 PM
Toluene	ND	0.048		mg/Kg	1	11/13/2023 2:34:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	11/13/2023 2:34:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	11/13/2023 2:34:00 PM
Surr: 4-Bromofluorobenzene	97.7	39.1-146		%Rec	1	11/13/2023 2:34:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	550	60		mg/Kg	20	11/10/2023 2:45:56 PM

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 **2311219**
Date Reported: **11/17/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: BDS Enterprises
Client Sample ID: S2A 4'
Project: Plug 1
Collection Date: 11/1/2023 9:05:00 AM
Lab ID: 2311219-002 **Matrix:** SOIL **Received Date:** 11/4/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **mb**
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/11/2023 1:34:02 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/11/2023 1:34:02 AM
Surr: DNOP	95.1	69-147		%Rec	1	11/11/2023 1:34:02 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/13/2023 2:56:00 PM
Surr: BFB	102	15-244		%Rec	1	11/13/2023 2:56:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.024		mg/Kg	1	11/13/2023 2:56:00 PM
Toluene	ND	0.049		mg/Kg	1	11/13/2023 2:56:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	11/13/2023 2:56:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	11/13/2023 2:56:00 PM
Surr: 4-Bromofluorobenzene	98.1	39.1-146		%Rec	1	11/13/2023 2:56:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	130	60		mg/Kg	20	11/10/2023 2:58:20 PM

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 **2311219**
Date Reported: **11/17/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: BDS Enterprises
Client Sample ID: S3A 2'
Project: Plug 1
Collection Date: 11/1/2023 9:10:00 AM
Lab ID: 2311219-003 **Matrix:** SOIL **Received Date:** 11/4/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**
Diesel Range Organics (DRO)	1000	96		mg/Kg	10	11/13/2023 12:41:25 PM
Motor Oil Range Organics (MRO)	ND	480	D	mg/Kg	10	11/13/2023 12:41:25 PM
Surr: DNOP	0	69-147	S	%Rec	10	11/13/2023 12:41:25 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/13/2023 3:18:00 PM
Surr: BFB	117	15-244		%Rec	1	11/13/2023 3:18:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.024		mg/Kg	1	11/13/2023 3:18:00 PM
Toluene	ND	0.049		mg/Kg	1	11/13/2023 3:18:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	11/13/2023 3:18:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	11/13/2023 3:18:00 PM
Surr: 4-Bromofluorobenzene	99.2	39.1-146		%Rec	1	11/13/2023 3:18:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	380	60		mg/Kg	20	11/10/2023 3:35:33 PM

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 **2311219**
Date Reported: **11/17/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: BDS Enterprises
Client Sample ID: S4A 3'
Project: Plug 1
Collection Date: 11/1/2023 9:15:00 AM
Lab ID: 2311219-004 **Matrix:** SOIL **Received Date:** 11/4/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **mb**
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/11/2023 1:55:23 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/11/2023 1:55:23 AM
Surr: DNOP	102	69-147		%Rec	1	11/11/2023 1:55:23 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/13/2023 3:39:00 PM
Surr: BFB	102	15-244		%Rec	1	11/13/2023 3:39:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.025		mg/Kg	1	11/13/2023 3:39:00 PM
Toluene	ND	0.049		mg/Kg	1	11/13/2023 3:39:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	11/13/2023 3:39:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	11/13/2023 3:39:00 PM
Surr: 4-Bromofluorobenzene	98.1	39.1-146		%Rec	1	11/13/2023 3:39:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	190	60		mg/Kg	20	11/10/2023 4:12:47 PM

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 **2311219**
Date Reported: **11/17/2023**

CLIENT: BDS Enterprises
Project: Plug 1
Lab ID: 2311219-005 **Matrix:** SOIL

Client Sample ID: S5A 4'
Collection Date: 11/1/2023 9:20:00 AM
Received Date: 11/4/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **mb**
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/11/2023 2:06:04 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/11/2023 2:06:04 AM
Surr: DNOP	98.4	69-147		%Rec	1	11/11/2023 2:06:04 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/13/2023 4:01:00 PM
Surr: BFB	103	15-244		%Rec	1	11/13/2023 4:01:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.025		mg/Kg	1	11/13/2023 4:01:00 PM
Toluene	ND	0.050		mg/Kg	1	11/13/2023 4:01:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	11/13/2023 4:01:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	11/13/2023 4:01:00 PM
Surr: 4-Bromofluorobenzene	95.3	39.1-146		%Rec	1	11/13/2023 4:01:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	270	60		mg/Kg	20	11/10/2023 4:50:01 PM

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 **2311219**
Date Reported: **11/17/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: BDS Enterprises
Client Sample ID: SW1
Project: Plug 1
Collection Date: 11/1/2023 9:25:00 AM
Lab ID: 2311219-006 **Matrix:** SOIL **Received Date:** 11/4/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **mb**
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/11/2023 2:16:42 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/11/2023 2:16:42 AM
Surr: DNOP	96.1	69-147		%Rec	1	11/11/2023 2:16:42 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/13/2023 4:22:00 PM
Surr: BFB	99.1	15-244		%Rec	1	11/13/2023 4:22:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.025		mg/Kg	1	11/13/2023 4:22:00 PM
Toluene	ND	0.050		mg/Kg	1	11/13/2023 4:22:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	11/13/2023 4:22:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	11/13/2023 4:22:00 PM
Surr: 4-Bromofluorobenzene	94.6	39.1-146		%Rec	1	11/13/2023 4:22:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	1100	60		mg/Kg	20	11/10/2023 5:02:25 PM

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 **2311219**
Date Reported: **11/17/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: BDS Enterprises
Client Sample ID: SW2
Project: Plug 1
Collection Date: 11/1/2023 9:30:00 AM
Lab ID: 2311219-007 **Matrix:** SOIL **Received Date:** 11/4/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **mb**
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/11/2023 2:27:20 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/11/2023 2:27:20 AM
Surr: DNOP	100	69-147		%Rec	1	11/11/2023 2:27:20 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/13/2023 4:44:00 PM
Surr: BFB	102	15-244		%Rec	1	11/13/2023 4:44:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.024		mg/Kg	1	11/13/2023 4:44:00 PM
Toluene	ND	0.049		mg/Kg	1	11/13/2023 4:44:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	11/13/2023 4:44:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	11/13/2023 4:44:00 PM
Surr: 4-Bromofluorobenzene	96.5	39.1-146		%Rec	1	11/13/2023 4:44:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **RBC**
Chloride	2600	150		mg/Kg	50	11/13/2023 9:27:39 AM

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 **2311219**
Date Reported: **11/17/2023**

CLIENT: BDS Enterprises
Client Sample ID: SW3
Project: Plug 1
Collection Date: 11/1/2023 9:35:00 AM
Lab ID: 2311219-008 **Matrix:** SOIL **Received Date:** 11/4/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **mb**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	11/11/2023 2:37:57 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/11/2023 2:37:57 AM
Surr: DNOP	94.8	69-147		%Rec	1	11/11/2023 2:37:57 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	11/13/2023 5:06:00 PM
Surr: BFB	99.2	15-244		%Rec	1	11/13/2023 5:06:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.023		mg/Kg	1	11/13/2023 5:06:00 PM
Toluene	ND	0.046		mg/Kg	1	11/13/2023 5:06:00 PM
Ethylbenzene	ND	0.046		mg/Kg	1	11/13/2023 5:06:00 PM
Xylenes, Total	ND	0.093		mg/Kg	1	11/13/2023 5:06:00 PM
Surr: 4-Bromofluorobenzene	93.7	39.1-146		%Rec	1	11/13/2023 5:06:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	240	60		mg/Kg	20	11/10/2023 5:27:13 PM

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 **2311219**
Date Reported: **11/17/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: BDS Enterprises
Client Sample ID: SW4
Project: Plug 1
Collection Date: 11/1/2023 9:40:00 AM
Lab ID: 2311219-009 **Matrix:** SOIL **Received Date:** 11/4/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **mb**
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/11/2023 2:48:33 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/11/2023 2:48:33 AM
Surr: DNOP	96.2	69-147		%Rec	1	11/11/2023 2:48:33 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/13/2023 5:27:00 PM
Surr: BFB	97.7	15-244		%Rec	1	11/13/2023 5:27:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.024		mg/Kg	1	11/13/2023 5:27:00 PM
Toluene	ND	0.048		mg/Kg	1	11/13/2023 5:27:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	11/13/2023 5:27:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	11/13/2023 5:27:00 PM
Surr: 4-Bromofluorobenzene	92.3	39.1-146		%Rec	1	11/13/2023 5:27:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	380	60		mg/Kg	20	11/10/2023 6:04:26 PM

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#: **2311219**

17-Nov-23

Client: BDS Enterprises

Project: Plug 1

Sample ID:	MB-78713	SampType:	mblk	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	78713	RunNo:	101133					
Prep Date:	11/10/2023	Analysis Date:	11/10/2023	SeqNo:	3714641	Units:	mg/Kg			

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

Sample ID:	LCS-78713	SampType:	lcs	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	78713	RunNo:	101133					
Prep Date:	11/10/2023	Analysis Date:	11/10/2023	SeqNo:	3714642	Units:	mg/Kg			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.3	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#: **2311219**

17-Nov-23

Client: BDS Enterprises

Project: Plug 1

Sample ID: **LCS-78701**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **78701**	RunNo: **101089**
Prep Date: **11/10/2023**	Analysis Date: **11/11/2023**	SeqNo: **3713386** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	87.3	61.9	130			
Surr: DNOP	4.8		5.000		96.9	69	147			

Sample ID: **MB-78701**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **78701**	RunNo: **101089**
Prep Date: **11/10/2023**	Analysis Date: **11/11/2023**	SeqNo: **3713388** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		101	69	147			

Sample ID: **LCS-78707**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **78707**	RunNo: **101124**
Prep Date: **11/10/2023**	Analysis Date: **11/13/2023**	SeqNo: **3714787** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.4		5.000		89.0	69	147			

Sample ID: **MB-78707**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **78707**	RunNo: **101124**
Prep Date: **11/10/2023**	Analysis Date: **11/13/2023**	SeqNo: **3714789** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.8		10.00		98.5	69	147			

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#: **2311219**

17-Nov-23

Client: BDS Enterprises

Project: Plug 1

Sample ID: **lcs-78650**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **78650**	RunNo: **101136**
Prep Date: **11/8/2023**	Analysis Date: **11/13/2023**	SeqNo: **3714727** 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	99.9	70	130			
Surr: BFB	2200		1000		218	15	244			

Sample ID: **mb-78650**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **78650**	RunNo: **101136**
Prep Date: **11/8/2023**	Analysis Date: **11/13/2023**	SeqNo: **3714728** 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	1000		1000		103	15	244			

Sample ID: **lcs-78628**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **78628**	RunNo: **101136**
Prep Date: **11/7/2023**	Analysis Date: **11/13/2023**	SeqNo: **3716472** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	2200		1000		220	15	244			

Sample ID: **mb-78628**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **78628**	RunNo: **101136**
Prep Date: **11/7/2023**	Analysis Date: **11/13/2023**	SeqNo: **3716473** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		104	15	244			

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#: **2311219**

17-Nov-23

Client: BDS Enterprises

Project: Plug 1

Sample ID: **lcs-78650**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **78650**	RunNo: **101136**
Prep Date: **11/8/2023**	Analysis Date: **11/13/2023**	SeqNo: **3714737** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	99.8	70	130			
Toluene	0.98	0.050	1.000	0	98.1	70	130			
Ethylbenzene	1.0	0.050	1.000	0	100	70	130			
Xylenes, Total	3.0	0.10	3.000	0	99.5	70	130			
Surr: 4-Bromofluorobenzene	1.0		1.000		100	39.1	146			

Sample ID: **mb-78650**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **78650**	RunNo: **101136**
Prep Date: **11/8/2023**	Analysis Date: **11/13/2023**	SeqNo: **3714738** 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	1.0		1.000		100	39.1	146			

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

eurofins | Environment Testing

Eurofins Environment Testing South Central, LLC
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: BDS Enterprises Work Order Number: 2311219 RcptNo: 1

Received By: Tracy Casarrubias 11/4/2023 9:00:00 AM

Completed By: Tracy Casarrubias 11/4/2023 9:51:17 AM

Reviewed By: CMC 11/6/23

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: TMC 11/4/23

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:

Client did not relinquish chain of custody

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.6	Good	Yes	Yogi		

Chain-of-Custody Record

Client: BDS

Mailing Address: 1705 Greene

Carlsbad NM

Phone #: 575 247-1104

email or Fax#: Rebeca@BDSafield.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: Plug 1

Project #:

Project Manager: R Pons

Sampler: A. Rapa

On Ice: ☒ Yes ☐ No 4005

# of Coolers: 1

Cooler Temp(including CF): 3.6 - 0 = 3.6 (°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. 2311219	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)
11/1	9:00	Soil	S1A 4'	Glass	Ice	001										
	9:05		S2A 4'			002										
	910		S3A 2'			003										
	915		S4A 3'			004										
	920		S5A 4'			005										
	925		SW1			006										
	930		SW2			007										
	935		SW3			008										
	9:40		SW4			009										
		MM 11/4/23														

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
					11/3/23	930
11/3/23	1900			courier	11/4/23	9:00

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.

eurofins | Environment Testing

Eurofins Environment Testing South Central, LLC
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

December 07, 2023

Rebecca Pons
BDS Enterprises
1705 E Greene St
Carlsbad, NM 88220
TEL: (575) 441-0980
FAX:

RE: Plug 1 OrderNo.: 2311B48

Dear Rebecca Pons:

Eurofins Environment Testing South Central, LLC received 6 sample(s) on 11/22/2023 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 do not hesitate to contact Eurofins Albuquerque 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 **2311B48**
Date Reported: **12/7/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: BDS Enterprises
Client Sample ID: SW5
Project: Plug 1
Collection Date: 11/20/2023 12:05:00 PM
Lab ID: 2311B48-001 **Matrix:** SOIL **Received Date:** 11/22/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	11/30/2023 2:20:00 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/30/2023 2:20:00 PM
Surr: DNOP	108	69-147		%Rec	1	11/30/2023 2:20:00 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/30/2023 1:20:00 AM
Surr: BFB	115	15-244		%Rec	1	11/30/2023 1:20:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.025		mg/Kg	1	11/30/2023 1:20:00 AM
Toluene	ND	0.050		mg/Kg	1	11/30/2023 1:20:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	11/30/2023 1:20:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	11/30/2023 1:20:00 AM
Surr: 4-Bromofluorobenzene	99.5	39.1-146		%Rec	1	11/30/2023 1:20:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **SNS**
Chloride	ND	60		mg/Kg	20	11/30/2023 2:34:44 PM

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 **2311B48**
Date Reported: **12/7/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: BDS Enterprises
Client Sample ID: SW6
Project: Plug 1
Collection Date: 11/20/2023 12:10:00 PM
Lab ID: 2311B48-002 **Matrix:** SOIL **Received Date:** 11/22/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	11/30/2023 2:30:29 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	11/30/2023 2:30:29 PM
Surr: DNOP	110	69-147		%Rec	1	11/30/2023 2:30:29 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/30/2023 1:42:00 AM
Surr: BFB	97.1	15-244		%Rec	1	11/30/2023 1:42:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.024		mg/Kg	1	11/30/2023 1:42:00 AM
Toluene	ND	0.048		mg/Kg	1	11/30/2023 1:42:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	11/30/2023 1:42:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	11/30/2023 1:42:00 AM
Surr: 4-Bromofluorobenzene	90.4	39.1-146		%Rec	1	11/30/2023 1:42:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **SNS**
Chloride	97	60		mg/Kg	20	11/30/2023 2:47:09 PM

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 **2311B48**
Date Reported: **12/7/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: BDS Enterprises
Client Sample ID: SW7
Project: Plug 1
Collection Date: 11/20/2023 12:15:00 PM
Lab ID: 2311B48-003 **Matrix:** SOIL **Received Date:** 11/22/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	11/30/2023 2:40:57 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/30/2023 2:40:57 PM
Surr: DNOP	104	69-147		%Rec	1	11/30/2023 2:40:57 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/30/2023 2:03:00 AM
Surr: BFB	98.6	15-244		%Rec	1	11/30/2023 2:03:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.024		mg/Kg	1	11/30/2023 2:03:00 AM
Toluene	ND	0.049		mg/Kg	1	11/30/2023 2:03:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	11/30/2023 2:03:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	11/30/2023 2:03:00 AM
Surr: 4-Bromofluorobenzene	92.0	39.1-146		%Rec	1	11/30/2023 2:03:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **SNS**
Chloride	ND	60		mg/Kg	20	11/30/2023 2:59:34 PM

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 **2311B48**
Date Reported: **12/7/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: BDS Enterprises
Client Sample ID: SW8
Project: Plug 1
Collection Date: 11/20/2023 12:20:00 PM
Lab ID: 2311B48-004 **Matrix:** SOIL **Received Date:** 11/22/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	11/30/2023 2:51:30 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/30/2023 2:51:30 PM
Surr: DNOP	92.2	69-147		%Rec	1	11/30/2023 2:51:30 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/30/2023 2:25:00 AM
Surr: BFB	97.6	15-244		%Rec	1	11/30/2023 2:25:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.025		mg/Kg	1	11/30/2023 2:25:00 AM
Toluene	ND	0.049		mg/Kg	1	11/30/2023 2:25:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	11/30/2023 2:25:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	11/30/2023 2:25:00 AM
Surr: 4-Bromofluorobenzene	91.8	39.1-146		%Rec	1	11/30/2023 2:25:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **SNS**
Chloride	97	60		mg/Kg	20	11/30/2023 3:11:58 PM

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 **2311B48**
Date Reported: **12/7/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: BDS Enterprises
Client Sample ID: S3A 4'
Project: Plug 1
Collection Date: 11/20/2023 12:25:00 PM
Lab ID: 2311B48-005 **Matrix:** SOIL **Received Date:** 11/22/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	11/30/2023 3:02:03 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/30/2023 3:02:03 PM
Surr: DNOP	105	69-147		%Rec	1	11/30/2023 3:02:03 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/30/2023 2:47:00 AM
Surr: BFB	95.3	15-244		%Rec	1	11/30/2023 2:47:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.024		mg/Kg	1	11/30/2023 2:47:00 AM
Toluene	ND	0.049		mg/Kg	1	11/30/2023 2:47:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	11/30/2023 2:47:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	11/30/2023 2:47:00 AM
Surr: 4-Bromofluorobenzene	91.2	39.1-146		%Rec	1	11/30/2023 2:47:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **SNS**
Chloride	100	60		mg/Kg	20	11/30/2023 3:24:22 PM

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 **2311B48**
Date Reported: **12/7/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: BDS Enterprises
Client Sample ID: S6A 3'
Project: Plug 1
Collection Date: 11/20/2023 12:30:00 PM
Lab ID: 2311B48-006 **Matrix:** SOIL **Received Date:** 11/22/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/30/2023 3:12:35 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/30/2023 3:12:35 PM
Surr: DNOP	106	69-147		%Rec	1	11/30/2023 3:12:35 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/30/2023 3:08:00 AM
Surr: BFB	97.0	15-244		%Rec	1	11/30/2023 3:08:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.024		mg/Kg	1	11/30/2023 3:08:00 AM
Toluene	ND	0.047		mg/Kg	1	11/30/2023 3:08:00 AM
Ethylbenzene	ND	0.047		mg/Kg	1	11/30/2023 3:08:00 AM
Xylenes, Total	ND	0.095		mg/Kg	1	11/30/2023 3:08:00 AM
Surr: 4-Bromofluorobenzene	91.7	39.1-146		%Rec	1	11/30/2023 3:08:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **SNS**
Chloride	ND	60		mg/Kg	20	11/30/2023 3:36:47 PM

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#: **2311B48**

07-Dec-23

Client: BDS Enterprises

Project: Plug 1

Sample ID: **MB-79058**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **79058**	RunNo: **101523**							
Prep Date: **11/29/2023**	Analysis Date: **11/30/2023**	SeqNo: **3737381**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-79058**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **79058**	RunNo: **101523**							
Prep Date: **11/29/2023**	Analysis Date: **11/30/2023**	SeqNo: **3737382**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.0	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#: **2311B48**

07-Dec-23

Client: BDS Enterprises

Project: Plug 1

Sample ID: **LCS-79059**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **79059**	RunNo: **101517**
Prep Date: **11/29/2023**	Analysis Date: **11/30/2023**	SeqNo: **3736831** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	50.00	0	103	61.9	130			
Surr: DNOP	4.8		5.000		95.2	69	147			

Sample ID: **MB-79059**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **79059**	RunNo: **101517**
Prep Date: **11/29/2023**	Analysis Date: **11/30/2023**	SeqNo: **3736834** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.7		10.00		96.5	69	147			

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#: **2311B48**

07-Dec-23

Client: BDS Enterprises

Project: Plug 1

Sample ID: **lcs-79027**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **79027**	RunNo: **101489**
Prep Date: **11/28/2023**	Analysis Date: **11/29/2023**	SeqNo: **3735705** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	86.2	70	130			
Surr: BFB	2100		1000		210	15	244			

Sample ID: **mb-79027**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **79027**	RunNo: **101489**
Prep Date: **11/28/2023**	Analysis Date: **11/29/2023**	SeqNo: **3735706** 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	980		1000		98.2	15	244			

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#: **2311B48**

07-Dec-23

Client: BDS Enterprises

Project: Plug 1

Sample ID: **lcs-79027**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **79027**	RunNo: **101489**
Prep Date: **11/28/2023**	Analysis Date: **11/29/2023**	SeqNo: **3735851** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	94.8	70	130			
Toluene	0.95	0.050	1.000	0	95.4	70	130			
Ethylbenzene	0.97	0.050	1.000	0	96.9	70	130			
Xylenes, Total	2.9	0.10	3.000	0	96.7	70	130			
Surr: 4-Bromofluorobenzene	0.96		1.000		95.6	39.1	146			

Sample ID: **mb-79027**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **79027**	RunNo: **101489**
Prep Date: **11/28/2023**	Analysis Date: **11/29/2023**	SeqNo: **3735852** 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	0.93		1.000		93.4	39.1	146			

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

eurofins Environment Testing

Eurofins Environment Testing South Central, LLC
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: BDS Enterprises Work Order Number: 2311B48 RcptNo: 1

Received By: Tracy Casarrubias 11/22/2023 7:25:00 AM

Completed By: Tracy Casarrubias 11/22/2023 7:30:01 AM

Reviewed By: 11-22-23

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 ☐	# of preserved bottles checked for pH: (<2 or >12 unless noted)
12. Are matrices correctly identified on Chain of Custody?	Yes ☐	No ☑	Adjusted?
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 ☐	Checked by: JR 11/22/23

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: Full address and project manager is missing on COC - TMC 11/22/23

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.4	Good	Yes	Morty		

Chain-of-Custody Record

Client: BDS

Mailing Address: 705 Grove ST

Phone #: 575.247.1106

email or Fax#: Rebecca@bdsoilfield.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: Plug 1

Project #:

Project Manager:

Sampler:

On Ice: ☑ Yes ☐ No marty

# of Coolers: 1

Cooler Temp(including CF): 3.5-0.1=3.4 (°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. 2311B48	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)
11/20	12:05	Soil	SW5	Glass	Ice	001	✓	✓					✓			
	1210		SW6			002										
	1215		SW7			003										
	1220		SW8			004										
	1225		SWA 4'			005										
↓	1230	↓	SWA 3'	↓	↓	006	↓	↓					↓			

TMC 11/22/23

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
	1700				11/21/23	1700
11/21/23	1900			Courier	11/22/23	7:25

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.

eurofins | Environment Testing

Eurofins Environment Testing South Central, LLC
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

December 19, 2023

Rebecca Pons
BDS Enterprises
1705 E Greene St
Carlsbad, NM 88220
TEL: (575) 441-0980
FAX:

RE: Plug 1 OrderNo.: 2312563

Dear Rebecca Pons:

Eurofins Environment Testing South Central, LLC received 2 sample(s) on 12/9/2023 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 do not hesitate to contact Eurofins Albuquerque 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 **2312563**
Date Reported: **12/19/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: BDS Enterprises **Client Sample ID:** SW1A
Project: Plug 1 **Collection Date:** 12/5/2023 5:05:00 PM
Lab ID: 2312563-001 **Matrix:** MEOH (SOIL) **Received Date:** 12/9/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/13/2023 6:24:30 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/13/2023 6:24:30 PM
Surr: DNOP	115	69-147		%Rec	1	12/13/2023 6:24:30 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	12/11/2023 9:51:00 AM
Surr: BFB	112	15-244		%Rec	1	12/11/2023 9:51:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.019		mg/Kg	1	12/11/2023 9:51:00 AM
Toluene	ND	0.038		mg/Kg	1	12/11/2023 9:51:00 AM
Ethylbenzene	ND	0.038		mg/Kg	1	12/11/2023 9:51:00 AM
Xylenes, Total	ND	0.075		mg/Kg	1	12/11/2023 9:51:00 AM
Surr: 4-Bromofluorobenzene	106	39.1-146		%Rec	1	12/11/2023 9:51:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **RBC**
Chloride	75	60		mg/Kg	20	12/11/2023 11:34:36 AM

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 **2312563**
Date Reported: **12/19/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: BDS Enterprises **Client Sample ID:** SW2A
Project: Plug 1 **Collection Date:** 12/5/2023 5:10:00 PM
Lab ID: 2312563-002 **Matrix:** MEOH (SOIL) **Received Date:** 12/9/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	12/13/2023 6:48:08 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/13/2023 6:48:08 PM
Surr: DNOP	116	69-147		%Rec	1	12/13/2023 6:48:08 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	12/11/2023 10:13:00 AM
Surr: BFB	105	15-244		%Rec	1	12/11/2023 10:13:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.020		mg/Kg	1	12/11/2023 10:13:00 AM
Toluene	ND	0.039		mg/Kg	1	12/11/2023 10:13:00 AM
Ethylbenzene	ND	0.039		mg/Kg	1	12/11/2023 10:13:00 AM
Xylenes, Total	ND	0.078		mg/Kg	1	12/11/2023 10:13:00 AM
Surr: 4-Bromofluorobenzene	105	39.1-146		%Rec	1	12/11/2023 10:13:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **RBC**
Chloride	74	60		mg/Kg	20	12/11/2023 11:47:01 AM

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#: **2312563**

19-Dec-23

Client: BDS Enterprises

Project: Plug 1

Sample ID: **MB-79284**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **79284**	RunNo: **101744**							
Prep Date: **12/11/2023**	Analysis Date: **12/11/2023**	SeqNo: **3750904**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-79284**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **79284**	RunNo: **101744**							
Prep Date: **12/11/2023**	Analysis Date: **12/11/2023**	SeqNo: **3750905**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.8	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#: **2312563**

19-Dec-23

Client: BDS Enterprises

Project: Plug 1

Sample ID: **MB-79278**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **79278**	RunNo: **101833**
Prep Date: **12/11/2023**	Analysis Date: **12/13/2023**	SeqNo: **3754501** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		112	69	147			

Sample ID: **LCS-79278**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **79278**	RunNo: **101833**
Prep Date: **12/11/2023**	Analysis Date: **12/13/2023**	SeqNo: **3754502** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	10	50.00	0	107	61.9	130			
Surr: DNOP	5.4		5.000		107	69	147			

Sample ID: **2312563-002AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **SW2A**	Batch ID: **79278**	RunNo: **101833**
Prep Date: **12/11/2023**	Analysis Date: **12/13/2023**	SeqNo: **3754507** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	9.9	49.36	0	109	54.2	135			
Surr: DNOP	5.5		4.936		111	69	147			

Sample ID: **2312563-002AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **SW2A**	Batch ID: **79278**	RunNo: **101833**
Prep Date: **12/11/2023**	Analysis Date: **12/13/2023**	SeqNo: **3754508** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	9.7	48.59	0	112	54.2	135	26.8	29.2	
Surr: DNOP	5.5		4.859		113	69	147	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#: **2312563**

19-Dec-23

Client: BDS Enterprises

Project: Plug 1

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **GS101736**	RunNo: **101736**
Prep Date:	Analysis Date: **12/11/2023**	SeqNo: **3749047** 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	94.5	70	130			
Surr: BFB	2300		1000		234	15	244			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **GS101736**	RunNo: **101736**
Prep Date:	Analysis Date: **12/11/2023**	SeqNo: **3749048** 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	1100		1000		108	15	244			

Sample ID: **2312563-001ams**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **SW1A**	Batch ID: **GS101736**	RunNo: **101736**
Prep Date:	Analysis Date: **12/11/2023**	SeqNo: **3750638** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	17	3.8	18.76	0	91.8	70	130			
Surr: BFB	1600		750.2		218	15	244			

Sample ID: **2312563-001amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **SW1A**	Batch ID: **GS101736**	RunNo: **101736**
Prep Date:	Analysis Date: **12/11/2023**	SeqNo: **3750639** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	17	3.8	18.76	0	89.8	70	130	2.25	20	
Surr: BFB	1700		750.2		220	15	244	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#: **2312563**

19-Dec-23

Client: BDS Enterprises

Project: Plug 1

Sample ID: **100ng btex lcs**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **BS101736**	RunNo: **101736**
Prep Date:	Analysis Date: **12/11/2023**	SeqNo: **3749054** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.025	1.000	0	99.2	70	130			
Toluene	1.0	0.050	1.000	0	101	70	130			
Ethylbenzene	1.0	0.050	1.000	0	103	70	130			
Xylenes, Total	3.1	0.10	3.000	0	104	70	130			
Surr: 4-Bromofluorobenzene	1.1		1.000		109	39.1	146			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **BS101736**	RunNo: **101736**
Prep Date:	Analysis Date: **12/11/2023**	SeqNo: **3749055** 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		108	39.1	146			

Sample ID: **2312563-002ams**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **SW2A**	Batch ID: **BS101736**	RunNo: **101736**
Prep Date:	Analysis Date: **12/11/2023**	SeqNo: **3750646** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.75	0.020	0.7849	0	95.8	70	130			
Toluene	0.76	0.039	0.7849	0	96.9	70	130			
Ethylbenzene	0.78	0.039	0.7849	0	99.0	70	130			
Xylenes, Total	2.3	0.078	2.355	0	99.0	70	130			
Surr: 4-Bromofluorobenzene	0.81		0.7849		103	39.1	146			

Sample ID: **2312563-002amsd**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **SW2A**	Batch ID: **BS101736**	RunNo: **101736**
Prep Date:	Analysis Date: **12/11/2023**	SeqNo: **3750647** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.75	0.020	0.7849	0	95.7	70	130	0.0606	20	
Toluene	0.76	0.039	0.7849	0	96.8	70	130	0.106	20	
Ethylbenzene	0.78	0.039	0.7849	0	99.6	70	130	0.555	20	
Xylenes, Total	2.4	0.078	2.355	0	100	70	130	1.44	20	
Surr: 4-Bromofluorobenzene	0.82		0.7849		104	39.1	146	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

eurofins | Environment Testing

Eurofins Environment Testing South Central, LLC
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: BDS Enterprises Work Order Number: 2312563 RcptNo: 1

Received By: Cheyenne Cason 12/8/2023

Completed By: Cheyenne Cason 12/9/2023 8:14:56 AM

Reviewed By: 12/09/23

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: 12/9/23

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	4.8	Good	Not Present	Morty		

Chain-of-Custody Record

Client: BDS

Mailing Address: 1705 Greene

Phone #: (575) 247-1104

email or Fax#: Rebecca@Bdsoilfield.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time: SAME DAY

☑ Standard ☑ Rush ~~5 Day TAT~~

Project Name: Plug 1.

Project #:

Project Manager: Rebecca Pons

Sampler:

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 4.8-0=4.8 (°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. 2312563	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)
12/5	5:05		SW 1A	Glass	Ice	001	↓	↓					↓			
↓	5:10		SW 2A	↓	↓	002										

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
12/8	830				12/8/23	830
12/8/23	1900				Date	Time
			Emc Courier		12/9/23	0750

Remarks: Same Day Rush per Rebecca Pons

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.

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.): POD1 (BH-01)	WELL TAG ID NO.: n/a	OSE FILE NO(S).: C-4483
WELL OWNER NAME(S): XTO Energy (Kyle Littrell)		PHONE (OPTIONAL):
WELL OWNER MAILING ADDRESS: 6401 Holiday Hill Dr.		CITY: Midland STATE: TX ZIP: 79707

WELL LOCATION (FROM GPS)	DEGREES	MINUTES	SECONDS	
LATITUDE	32°	12'	31.77"	N
LONGITUDE	-103°	50'	0.72"	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE: NW NW NE Sec. 24 T24S R30E

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1249	Jackie D. Atkins	Atkins Engineering Associates, Inc.

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
11/24/2020	11/24/2020	temporary well material	110	n/a

COMPLETED WELL IS: ☐ ARTESIAN ☑ DRY HOLE ☐ SHALLOW (UNCONFINED) — STATIC WATER LEVEL IN COMPLETED WELL (FT): n/a

DRILLING FLUID: ☑ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: Hollow Stem Auger

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	110	±8.5	Boring- HSA	--	--	--	--

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT

OSE DII DEC 12 2020 PM 3:29

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 06/30/17)

FILE NO. C-4483	POD NO. 1	TRN NO. 679344	
LOCATION 123 T24S R30E Sec 24		WELL TAG ID NO. NA	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	24	24	Sand, Fine-grained,poorly-graded, with caliche, Tan-Off-White	Y ✓ N	
24	34	10	Sand, Fine-grained,poorly-graded, silty, with caliche gravel, Tan-Off-White	Y ✓ N	
34	51	17	Sand, Fine-grained,poorly-graded, silty, with caliche gravel, Light Brown	Y ✓ N	
51	54	3	Sand, Fine-grained,poorly-graded, silty, with caliche gravel, Light Brown-Brown	Y ✓ N	
54	76	22	Sand, Fine-grained,poorly-graded, Brown, dry	Y ✓ N	
76	101	25	Sand, Fine-grained,poorly-graded, Light-Brown, dry	Y ✓ N	
101	110	9	Sand, Fine-grained,poorly-graded, with gravel, Light-Brown, dry-moist	Y ✓ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST: TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION: Temporary well materials removed and the soil boring backfilled using drill cuttings from total depth to ten feet below ground surface, then hydrated bentonite chips from ten feet below ground surface to surface. Logs adapted from LTE on-site geologist.

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Shane Eldridge

6. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:

Jack Atkins — Jackie D. Atkins — 12/14/20 — DSE DIT DEC 17 2020 PM 3:29

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 06/30/2017)

FILE NO. C-4483	POD NO. 1	TRN NO. 629344	
LOCATION 123 T24S R30E Sec 24		WELL TAG ID NO. N/A	PAGE 2 OF 2

John R. D Antonio, Jr., P.E.
State Engineer

Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER

Trn Nbr: 679344
File Nbr: C 04483
Well File Nbr: C 04483 POD1

Jan. 22, 2021

TACOMA MORRISSEY
LT ENVIRONMENTAL INC
508 WEST STEVENS
CARLSBAD, NM 88220

Greetings:

The above numbered permit was issued in your name on 09/29/2020.

The Well Record was received in this office on 12/17/2020, stating that it had been completed on 11/24/2020, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 09/29/2021.

If you have any questions, please feel free to contact us.

Sincerely,

Andrew Dennis
(575)622-6521

drywell

District I
1625 N. French Dr., Hobbs, NM 88240
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District IV
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Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 305153

QUESTIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 305153
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2304147175**
Incident Name	**NAPP2304147175 PLUC 1 RECYCLE FACILITY @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Remediation Closure Report Received**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	PLUC 1 RECYCLE FACILITY
Date Release Discovered	01/28/2023
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	*Not answered.*
Produced Water Released (bbls) Details	Cause: Human Error | Valve | Produced Water | Released: 385 BBL | Recovered: 90 BBL | Lost: 295 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

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QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 305153
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	**No, according to supplied volumes this does not appear to be a "gas only" report.**
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	**Yes**
Reasons why this would be considered a submission for a notification of a major release	**From paragraph A. "Major release" determine using:** **(1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.**
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

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	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

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.

I hereby agree and sign off to the above statement	Name: Garrett Green Title: SHE Coordinator Email: garrett.green@exxonmobil.com Date: 01/18/2024

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QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 305153
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	Attached Document
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1000 (ft.) and ½ (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	7600
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
On what estimated date will the remediation commence	05/02/2023
On what date will (or did) the final sampling or liner inspection occur	11/01/2023
On what date will (or was) the remediation complete(d)	11/20/2023
What is the estimated surface area (in square feet) that will be reclaimed	2472
What is the estimated volume (in cubic yards) that will be reclaimed	56
What is the estimated surface area (in square feet) that will be remediated	2472
What is the estimated volume (in cubic yards) that will be remediated	56
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 305153
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for **off-site** disposal	OWL LANDFILL JAL [fJEG1635837366]
OR which OCD approved well (API) will be used for **off-site** disposal	*Not answered.*
OR is the **off-site** disposal site, to be used, out-of-state	*Not answered.*
OR is the **off-site** disposal site, to be used, an NMED facility	*Not answered.*
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	*Not answered.*
(In Situ) Soil Vapor Extraction	*Not answered.*
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	*Not answered.*
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	*Not answered.*
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	*Not answered.*
Ground Water Abatement pursuant to 19.15.30 NMAC	*Not answered.*
OTHER (Non-listed remedial process)	*Not answered.*
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
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.	
I hereby agree and sign off to the above statement	Name: Garrett Green Title: SHE Coordinator Email: garrett.green@exxonmobil.com Date: 01/18/2024
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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District II
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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

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 305153
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 305153
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**305189**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**11/01/2023**
What was the (estimated) number of samples that were to be gathered	**16**
What was the sampling surface area in square feet	**2472**

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	**Yes**
Was this release entirely contained within a lined containment area	**No**
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	2472
What was the total volume (cubic yards) remediated	56
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	2472
What was the total volume (in cubic yards) reclaimed	56
Summarize any additional remediation activities not included by answers (above)	N/A

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 (in .pdf format) 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.

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.

I hereby agree and sign off to the above statement	Name: Garrett Green Title: SHE Coordinator Email: garrett.green@exxonmobil.com Date: 01/18/2024

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QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 305153
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 305153

CONDITIONS

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	Action Number: 305153
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	1/19/2024