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-144
Revised April 3, 2017

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office.
For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

Pit, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application

Type of action: ☐ Below grade tank registration
☐ Permit of a pit or proposed alternative method
BGT1 ☒ Closure of a pit, below-grade tank, or proposed alternative method
☐ Modification to an existing permit/or registration
☐ Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank, or proposed alternative method

Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.

1.
Operator: Dugan Production Corp. OGRID #: 006515
Address: PO Box 420, Farmington, NM 87499-0420
Facility or well name: LH #174
API Number: 30-045-28533 OCD Permit Number:
U/L or Qtr/Qtr A Section 32 Township 23N Range 8W County: San Juan
Center of Proposed Design: Latitude 36.188898 Longitude -107.696698 NAD83 570' FNL & 645' FEL
Surface Owner: ☐ Federal ☒ State ☐ Private ☐ Tribal Trust or Indian Allotment

2.
☐ **Pit:** Subsection F, G or J of 19.15.17.11 NMAC
Temporary: ☐ Drilling ☐ Workover
☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A ☐ Multi-Well Fluid Management Low Chloride Drilling Fluid ☐ yes ☐ no
☐ Lined ☐ Unlined Liner type: Thickness _____mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other
☐ String-Reinforced
Liner Seams: ☐ Welded ☐ Factory ☐ Other Volume: _____bbl Dimensions: L_____ x W_____ x D_____

3.
☒ **Below-grade tank:** Subsection I of 19.15.17.11 NMAC
Volume: 45 bbl Type of fluid: water
Tank Construction material: steel
☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
☐ Visible sidewalls and liner ☒ Visible sidewalls only ☐ Other
Liner type: Thickness 60 mil ☒ HDPE ☐ PVC ☐ Other

4.
☐ **Alternative Method:**
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

5.
Fencing: Subsection D of 19.15.17.11 NMAC *(Applies to permanent pits, temporary pits, and below-grade tanks)*
☐ Chain link, six feet in height, two strands of barbed wire at top *(Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)*
☒ Four foot height, four strands of barbed wire evenly spaced between one and four feet
☐ Alternate. Please specify

6.

Netting: Subsection E of 19.15.17.11 NMAC *(Applies to permanent pits and permanent open top tanks)*

☐ Screen ☒ Netting ☐ Other_____

☐ Monthly inspections (If netting or screening is not physically feasible)

7.

Signs: Subsection C of 19.15.17.11 NMAC

☒ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers

☐ Signed in compliance with 19.15.16.8 NMAC

8.

Variances and Exceptions:

Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.

Please check a box if one or more of the following is requested, if not leave blank:

☐ Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.

☐ Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

9.

Siting Criteria (regarding permitting): 19.15.17.10 NMAC

Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. **Siting criteria does not apply to drying pads or above-grade tanks.**

General siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank. - ☐ NM Office of the State Engineer - iWATERS database search; ☒ USGS; ☐ Data obtained from nearby wells	☐ Yes ☒ No ☐ NA
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit . NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☒ No ☐ NA
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. **(Does not apply to below grade tanks)** - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within the area overlying a subsurface mine. **(Does not apply to below grade tanks)** - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
Within an unstable area. **(Does not apply to below grade tanks)** - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	☐ Yes ☐ No
Within a 100-year floodplain. **(Does not apply to below grade tanks)** - FEMA map	☐ Yes ☐ No
Below Grade Tanks	
Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☒ Yes ☐ No
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☒ No
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)	
Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No

Within 100 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Temporary Pit Non-low chloride drilling fluid	
Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
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, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Permanent Pit or Multi-Well Fluid Management Pit	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No

10.

Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC

Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

☐ Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
☐ Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC
☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
☐ Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
☐ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

☐ Previously Approved Design (attach copy of design) API Number: _____ or Permit Number: _____

11.

Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC

Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

☐ Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
☐ A List of wells with approved application for permit to drill associated with the pit.
☐ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
☐ Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC

☐ Previously Approved Design (attach copy of design) API Number: _____ or Permit Number: _____

12.
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- ☐ Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC
- ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
- ☐ Climatological Factors Assessment
- ☐ Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Quality Control/Quality Assurance Construction and Installation Plan
- ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
- ☐ Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Nuisance or Hazardous Odors, including H_2S, Prevention Plan
- ☐ Emergency Response Plan
- ☐ Oil Field Waste Stream Characterization
- ☐ Monitoring and Inspection Plan
- ☐ Erosion Control Plan
- ☐ Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

13.
Proposed Closure: 19.15.17.13 NMAC
Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.

Type: ☐ Drilling ☐ Workover ☐ Emergency ☐ Cavitation ☐ P&A ☐ Permanent Pit ☒ Below-grade Tank ☐ Multi-well Fluid Management Pit ☐ Alternative

Proposed Closure Method: ☒ Waste Excavation and Removal
☐ Waste Removal (Closed-loop systems only)
☐ On-site Closure Method (Only for temporary pits and closed-loop systems)
☐ In-place Burial ☐ On-site Trench Burial
☐ Alternative Closure Method

14.
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) ***Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.***

- ☒ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
- ☒ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC
- ☒ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)
- ☒ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- ☒ Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- ☒ Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

15.
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC
Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. Please refer to 19.15.17.10 NMAC for guidance.

Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	

adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	☐ Yes ☐ No
Within a 100-year floodplain. - FEMA map	☐ Yes ☐ No

16.
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) ***Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.***

- ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
- ☐ Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC
- ☐ Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.11 NMAC
- ☐ Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
- ☐ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC
- ☐ Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC
- ☐ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)
- ☐ Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- ☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- ☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

17.
Operator Application Certification:

I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.

Name (Print): _____ Title: _ _____

Signature:_____ Date: _____

e-mail address:_ _____ Telephone: _____

18.
OCD Approval: ☐ Permit Application (including closure plan) ☐ Closure Plan (only) ☐ OCD Conditions (see attachment)

OCD Representative Signature: _____ **Approval Date:** _____

Title: _____ **OCD Permit Number:**_____

19.
Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC

Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.

☐ **Closure Completion Date:____5/21/2024_____**

20.
Closure Method:

☐ Waste Excavation and Removal ☐ On-Site Closure Method ☐ Alternative Closure Method ☐ Waste Removal (Closed-loop systems only)
☐ If different from approved plan, please explain.

21.
Closure Report Attachment Checklist: ***Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached.***

- ☒ Proof of Closure Notice (surface owner and division)
- ☐ Proof of Deed Notice (required for on-site closure for private land only)
- ☐ Plot Plan (for on-site closures and temporary pits)
- ☒ Confirmation Sampling Analytical Results (if applicable)
- ☐ Waste Material Sampling Analytical Results (required for on-site closure)
- ☒ Disposal Facility Name and Permit Number
- ☐ Soil Backfilling and Cover Installation
- ☐ Re-vegetation Application Rates and Seeding Technique
- ☐ Site Reclamation (Photo Documentation)

On-site Closure Location: Latitude _____ Longitude _____ NAD: ☐1927 ☐ 1983

22.

Operator Closure Certification:

I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.

Name (Print): Eileen Yates Title: EHS Manager

Signature: Eileen Yates Date: March, 26, 2026

e-mail address: Eileen.Yates@duganproduction.com Telephone: 505-787-9832

Dugan Production Corp.

Lease Name: L H #174

Below Grade Tank 1 Closure Report

API No.: 30-045-28533
State Lease: LH0174
NM OCD Tank ID: ycon2414249422
A-32-23N-08W
570 FNL 645 FEL
Surface Owner: State

Below-Grade Tank Closure Summary:

Dugan Production Corp. completed closure of the below-grade tank located at the L H #174 well location (API No. 30-045-28533). Closure activities were conducted in accordance with the Below-Grade Tank Closure Plan approved by the New Mexico Oil Conservation Division on May 21, 2024, and in compliance with the substantive technical requirements of 19.15.17 NMAC.

Closure activities included removal of liquids and sludge, removal and disposal of the below-grade tank, soil sampling and analysis, backfilling excavation, recontouring of the disturbed area, and tank site reclamation.

Below-Grade Tank Permit History:

In accordance with 19.15.17.13 NMAC, the following summarizes the closure of the above-referenced below-grade tank. The permit for NM OCD Tank ID ycon2414249422 was approved on May 21, 2024, which included the closure plan. The conditions of approval specified that:

1. All future C-144 Form submittals related to this below-grade tank must include OCD Permit Number BGT1 in Section 1 of the C-144 Form; and
2. Upon plugging and abandonment of Well API No. 30-045-28533 (L H # 174) and cessation of all production in the area associated with the below-grade tank, Dugan shall complete the requirements of 19.15.17.13.H NMAC for the area associated with this below-grade tank and notify the OCD when restoration, reclamation, and revegetation are complete.
3. In the BGT Closure Plan, Dugan shall correct the language in Paragraph 6 from _Stewart A Com B #3" to "LH #174."

The May 21, 2024 Detail in the Pit & Containment Events record states the following: Closure plan received for an existing, unregistered below-grade tank (BGT): 45 bbl steel tank with visible sidewalls only; 60-mil HDPE liner; four-foot-high fencing with four strands of barbed wire evenly spaced between one and four feet; netting and signage installed. Depth to water (DTW) estimated to be greater than 50 feet and less than 100 feet below ground surface (bgs).

Dugan Production Corp. complied with Tier II constituent levels listed in Table I of NMAC 19.15.17.13, as directed.

Subsequent closure activities, including tank removal, soil sampling, and backfilling were conducted in accordance with the substantive technical requirements of 19.15.17 NMAC.

BGT Closure:

Dugan Production Corp. has successfully closed the below-grade tank located at L H #174 well location. The closure procedures implemented by Dugan were conducted in accordance with the Below-Grade Tank Closure Plan submitted to the New Mexico Oil Conservation Division on May 21, 2024.

General Plan:

1. Dugan Production Corp. shall close the below-grade pit within 60 days of cessation of operations, in accordance with NMAC 19.15.17.13.G(4). This requirement applies to below-grade tanks that do not meet the requirements of NMAC 19.15.17.11.I(4) or that are not included under NMAC 19.15.17.11.I(5). Such tanks must be closed within, unless retrofitted to comply with NMAC 19.15.17.11.I(4)(b), or earlier if required by the Division due to an imminent threat to fresh water, public health, or the environment. In accordance with 19.15.17.12.D(6), a C-141 must be submitted to document any areas that are wet, discolored or showing other evidence of release.

   The above-mentioned Below-Grade Tank Permit Application was approved by the New Mexico Oil Conservation Division (NMOCD) on May 21, 2024, subject to the three conditions listed in the permit history.

2. Dugan Production shall remove liquids and sludge from a below-grade tank prior to implementing closure activities and shall dispose of the liquids and sludge in a division-approved facility. The disposal facilities to be utilized are Envirotech Landfarm (Permit # NM-01-011) for solid waste and liquid waste will be hauled to Dugan Production Corp.'s Sanchez O'Brien SWD # 001 (Permit # SWD-694).

   All recovered liquids were disposed of at Dugan Production Corp.'s Sanchez O'Briens SWD # 001 (Permit # NM-694) and any sludge or soil required to be removed to facilitate closure was hauled to Envirotech Land Farm (Permit # NM-01-011).

3. Dugan Production Corp. will receive prior approval to remove the below-grade tank and dispose of it in a division-approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office approves.

   The below-grade tank was disposed of in accordance with division approved method.

4. Equipment associated with the below-grade tank shall be removed by Dugan Production Corp., unless the equipment is required.

All equipment has been removed from the well site.

5. Dugan Production Corp. will have the soil beneath the below-grade tank tested to determine whether a release has occurred. Dugan Production Corp. shall collect at a minimum, a five-point composite sample: Individual grab sampled will be collected from any area that is wet, discolored, or showing other evidence of a release, and analyzed for constituents listed in Table I of NMAC 19.15.17.13. Dugan Production Corp. shall notify the division of its results on form C-141.

The depth to groundwater at the site was greater than 50 feet and less than 100 feet below the base of the below grade tank, meeting the closure criteria for Tier II constituent levels.

Tier II Closure Criteria		
Constituent[1]	Method	Limit
Chloride	EPA 300.0	10,000 mg/kg
TPH	EPA SW-846 Method 418.1	2,500 mg/kg
GRO-DRO	EPA SW-846 Method 8015M	1,000 mg/kg
BTEX[3]	EPA SW-846 Method 8021B or 8260B	50 mg/kg
Benzene	EPA SW-846 Method 8021B or 8015M	10 mg/kg

[1] - Constituent concentrations are in milligrams per kilogram (mg/kg).
[2] - Total Petroleum Hydrocarbons (TPH). Gasoline Range Organics (GRO). Diesel Range Organics (DRO). Mother Oil/Lube Oil Range Organics (MRO).
[3] - Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX).

A five-point composite sample was taken of the below-grade tank using sampling tools and all samples tested per NMAC 19.15.17.1 3(B)(1)(b). **See Appendix B: Soil Analysis**

BGT Berm West Wall

Analyte	Result
Volatile Organics by EPA 8021B	mg/kg
Benzene	ND
Ethylbenzene	0.058
Toluene	0.11
o-Xylene	ND
p, m-Xylene	ND
Total Xylenes	0.42
Nonhalogenated Organics by EPA 8015D - GRO	
Gasoline Range Organics (GRO)	6.8
Nonhalogenated Organics by EPA 8015M/D-DRO/MRO	
Diesel Range Organics (DRO)	250
Motor Range Organics (MRO)	180
Anions by EPA 300.0/9056A	
Chloride	1500

BGT Berm South Wall

Analyte	Result
Volatile Organics by EPA 8021B	mg/kg
Benzene	ND
Ethylbenzene	ND
Toluene	ND
o-Xylene	ND
p, m-Xylene	ND
Total Xylenes	0.20
Nonhalogenated Organics by EPA 8015D - GRO	
Gasoline Range Organics (GRO)	5.6
Nonhalogenated Organics by EPA 8015M/D-DRO/MRO	
Diesel Range Organics (DRO)	880
Motor Range Organics (MRO)	ND
Anions by EPA 300.0/9056A	
Chloride	1700

BGT Berm East Wall

Analyte	Result
Volatile Organics by EPA 8021B	mg/kg
Benzene	ND
Ethylbenzene	ND
Toluene	ND
o-Xylene	ND
p, m-Xylene	ND
Total Xylenes	0.19
Nonhalogenated Organics by EPA 8015D - GRO	
Gasoline Range Organics (GRO)	5.6
Nonhalogenated Organics by EPA 8015M/D-DRO/MRO	
Diesel Range Organics (DRO)	710
Motor Range Organics (MRO)	ND
Anions by EPA 300.0/9056A	
Chloride	1500

BGT Berm North Wall

Analyte	Result
Volatile Organics by EPA 8021B	mg/kg
Benzene	ND
Ethylbenzene	ND
Toluene	ND
o-Xylene	ND
p, m-Xylene	ND
Total Xylenes	ND
Nonhalogenated Organics by EPA 8015D - GRO	
Gasoline Range Organics (GRO)	ND
Nonhalogenated Organics by EPA 8015M/D-DRO/MRO	
Diesel Range Organics (DRO)	260
Motor Range Organics (MRO)	180
Anions by EPA 300.0/9056A	
Chloride	2400

BGT Berm Bottom 1

Analyte	Result
Volatile Organics by EPA 8021B	mg/kg
Benzene	ND
Ethylbenzene	ND
Toluene	ND
o-Xylene	ND
p, m-Xylene	ND
Total Xylenes	ND
Nonhalogenated Organics by EPA 8015D - GRO	
Gasoline Range Organics (GRO)	ND
Nonhalogenated Organics by EPA 8015M/D-DRO/MRO	
Diesel Range Organics (DRO)	220
Motor Range Organics (MRO)	130
Anions by EPA 300.0/9056A	
Chloride	1500

BGT Berm Bottom 2

Analyte	Result
Volatile Organics by EPA 8021B	mg/kg
Benzene	ND
Ethylbenzene	ND
Toluene	ND
o-Xylene	ND
p, m-Xylene	ND
Total Xylenes	ND
Nonhalogenated Organics by EPA 8015D - GRO	
Gasoline Range Organics (GRO)	ND
Nonhalogenated Organics by EPA 8015M/D-DRO/MRO	
Diesel Range Organics (DRO)	220
Motor Range Organics (MRO)	140
Anions by EPA 300.0/9056A	
Chloride	1500

6. If Dugan Production Corp. or the division determine that a release has occurred, then Dugan Production Corp. shall comply with 19.15.3.116 NMAC and 19.15.1.19 NMAC, as appropriate.

No evidence of a release was observed during the visual inspection; however, analytical results indicated that a release had occurred. Detected constituent concentrations were below the Tier II threshold values specified in Table I of 19.15.17.13 NMAC.

7. In the event the sampling program demonstrates that a release has not occurred or that any release does not exceed the constituent concentrations specified in NMAC 19.15.17.13 Table I, then Dugan Production Corp. Shall backfill the excavation with compacted, non-waste containing, earthen material; construct a division-prescribed soil cover; recontour and revegetate the site.

   The below-grade tank area passed all requirements of NMAC 19.15.17.13.E(4) and was backfilled with compacted, non-waste containing, earthen material.

8. Notice of Closure will be given prior to closure to the Aztec District Division office between 72 hours and one week via email or verbally. The notification of closure will include the following:
   i. Operators name
   ii. Location by Unit Letter, Section, Township, and Range.
   iii. Well Name
   iv. API Number

   Notification is included in A**ppendix A: Notifications**

9. The surface owner shall be notified of Dugan Production Corp.'s closing of the below-grade tank 72 hours, but not more than one week, prior to closure as per approved closure plan via certified mail, return receipt requested.

   The closure process notification to the landowner was sent via email. **See Appendix A: Notifications.**

10. Re-contouring of location will match fit, shape, line, form and texture of the surrounding. Re-shaping will include drainage control, prevent ponding, and prevent erosion. Natural drainages will be unimpeded and water bars and/or silt traps will be placed in areas where needed to prevent erosion on a large scale. Final re-contour shall have a uniform appearance with smooth surface, fitting the natural topography.

    The below-grade tank area was recontoured to achieve a uniform appearance with a smooth surface. Drainage controls were incorporated to prevent ponding and erosion and to ensure the area aligns with the existing well pad. Natural drainage was not impeded. Water bars and silt traps were installed, where necessary, to minimize erosion.

11. Dugan shall seed the disturbed areas the first favorable growing season following closure of a below-grade tank. Seeding will be accomplished via drilling on the contour whenever practical or by other division-approved methods. BLM stipulated seed mixes will be used on federally regulated lands and division-approved seed mixtures (administratively approved if

required) will be utilized on all State or private lands. A uniform vegetative cover has been established that reflects a life-form ratio of plus or minus fifty percent (50%) of pre-disturbance levels and a total percent plant cover of at least seventy percent (70%) of pre-disturbance levels, approval if needed. Dugan will repeat seeding or planting will be continued until successful vegetative growth occurs.

Final reclamation will be completed by Dugan Production Corp. upon plugging and abandonment of the well using Division-approved seed mixes.

12. A minimum of four feet of cover shall be achieved and the cover shall include one foot of suitable material, with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, to establish vegetation at the site, or the background thickness of topsoil, whichever is greater.

    The below-grade tank area was backfilled, and more than four feet of cover was achieved and the cover included one foot of suitable material to establish vegetation at the site.

13. All closure activities will include proper documentation and be available for review upon request and will be submitted to OCD within 60 days of closure of the below-grade tank. Closure report will be filed on C-144 and incorporate the following:

    - Soil Backfilling and Cover Installation, included in this report.
    - Revegetation application rates and seeding techniques, to be submitted upon final plugging and abandonment of the well.
    - Closure notifications, see **Appendix A: Notification**.
    - Soil sampling analytical results, see **Appendix B: Soil Analysis**.

Appendix A: Notifications

BGT 1 Closure Notification

From: Kevin Smaka <Kevin.Smaka@duganproduction.com>
Sent: Thursday, May 23, 2024 8:44 AM
To: Barr, Leigh, EMNRD <leighp.barr@emnrd.nm.gov>; eco@slo.state.nm.us
Cc: Knight, Tami C. <tknight@slo.state.nm.us>; Tyra Feil <Tyra.Feil@duganproduction.com>; Carlos Ramos <Carlos.Ramos@duganproduction.com>; James McDaniel <james@jakdsolutions.com>
Subject: BGT Closure Notice

Dugan will be closing a BGT located at Dugan's LH 174 wellsite. Soil samples will be collected this coming Tuesday, 5/28/24 at 10:00 AM.

Here is the locations information:

30-045-28533 L H #174 [3738]

General Well Information

Operator:	[6515] DUGAN PRODUCTION CORP
Status:	Active
Well Type:	Oil
Work Type:	New
Surface Location:	A-32-23N-08W 570 FNL 645 FEL
Lat/Long:	36.1890106,-107.6978607 NAD83
GL Elevation:	6770
KB Elevation:	
DF Elevation:	

Please contact me should you have questions!

Kevin Smaka P.E.
Regulatory Engineer
Dugan Production Corp
505-486-6207

Reply Forward

Appendix B: Soil Analysis

Figure A: On-Site Form

JAKD SOLUTIONS

ON-SITE FORM

Well Name L H 174 API # 30-045-28533

Section 32 Township 23N Range 8W County San Juan State NM

Contractors On-Site N/A Time On-Site 9:30am Time Off-Site 12:20pm

Spill Amount N/A bbls Spilled (Oil/Produced Water/Other) Recovered —

Land Use (Range) / Residential / Tribe —) Spill Area 16 x 14 x 12 deep

Site Diagram

Sample Location

Sample Location

Comments

Samples

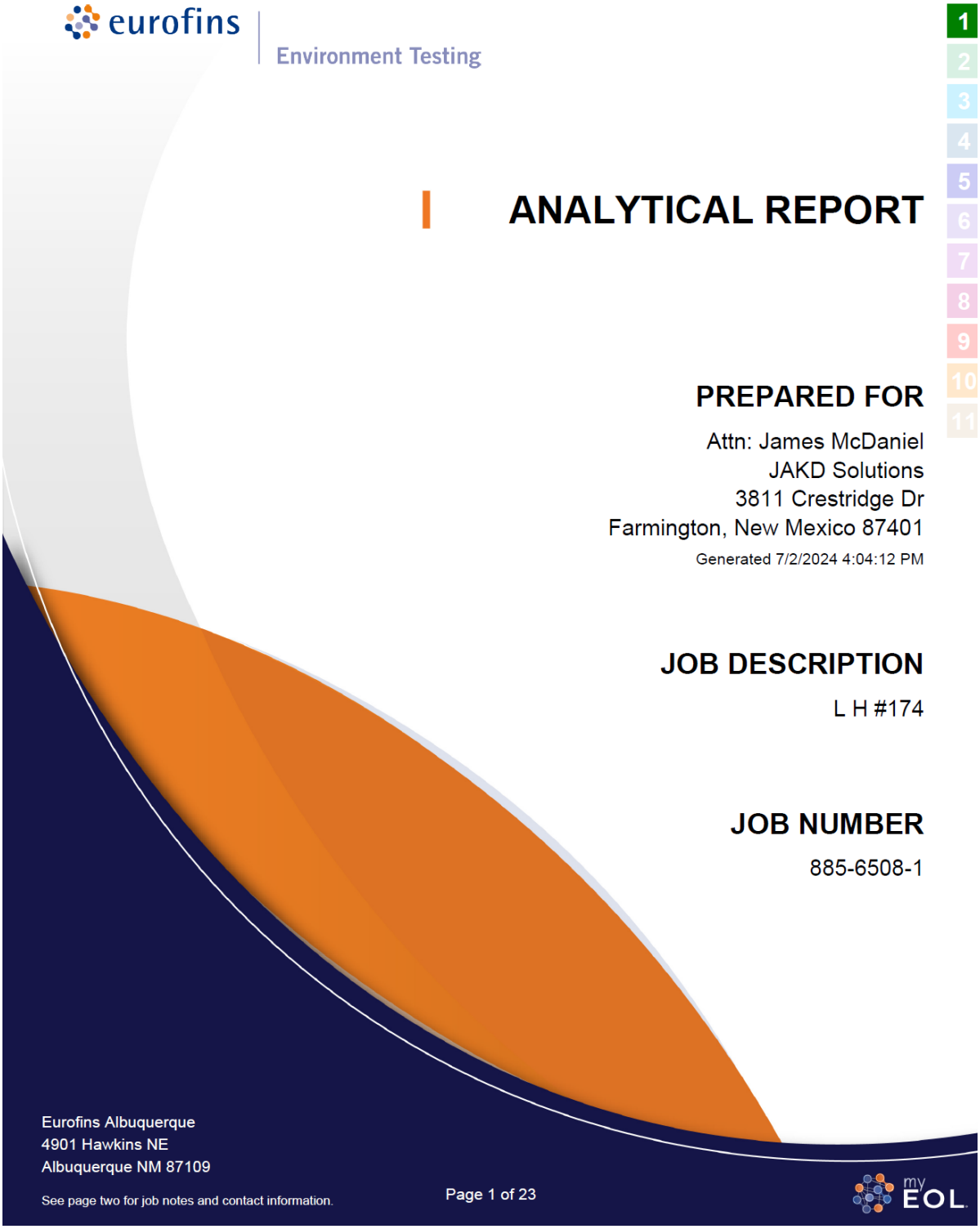
Time	Sample #	Sample Description	Characteristics	OVM (ppm)	Analysis Requested
—	NA	100 Standard	NA		NA
10:30	1	Bottom 1	Sandy,		8015, 8021, Cl
10:45	2	Bottom 2			
11:00	3	North Wall			
11:10	4	West Wall			
11:20	5	South Wall			
11:30	6	East Wall			

Name (Print) Chad Shell Date 6-18-24

Name (Signature) Company JAKD

Appendix B: Soil Analysis

Figure B: Soil Laboratory Analysis



Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization

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7/2/2024 4:04:12 PM

Authorized for release by
Michelle Garcia, Project Manager
michelle.garcia@et.eurofinsus.com
(505)345-3975

Client: JAKD Solutions
Project/Site: L H #174

Laboratory Job ID: 885-6508-1

Table of Contents

Definitions/Glossary

Client: JAKD Solutions
Project/Site: L H #174

Job ID: 885-6508-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
S1-	Surrogate recovery exceeds control limits, low biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: JAKD Solutions
Project: L H #174

Job ID: 885-6508-1

Job ID: 885-6508-1 Eurofins Albuquerque

Job Narrative
885-6508-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 6/19/2024 7:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.7°C.

Gasoline Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
Method 8015D_DRO: The following sample was diluted due to the nature of the sample matrix: South Well (885-6508-5). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: JAKD Solutions
Project/Site: L H #174

Job ID: 885-6508-1

Client Sample ID: Bottom 1

Date Collected: 06/18/24 10:30
Date Received: 06/19/24 07:00

Lab Sample ID: 885-6508-1

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		06/20/24 10:21	06/24/24 23:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*35 - 166*	*06/20/24 10:21*	*06/24/24 23:06*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		06/20/24 10:21	06/24/24 23:06	1
Ethylbenzene	ND		0.050		mg/Kg		06/20/24 10:21	06/24/24 23:06	1
Toluene	ND		0.050		mg/Kg		06/20/24 10:21	06/24/24 23:06	1
Xylenes, Total	ND		0.10		mg/Kg		06/20/24 10:21	06/24/24 23:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*48 - 145*	*06/20/24 10:21*	*06/24/24 23:06*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**220**		9.3		mg/Kg		06/21/24 12:58	06/25/24 14:42	1
Motor Oil Range Organics [C28-C40]	**130**		47		mg/Kg		06/21/24 12:58	06/25/24 14:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*100*		*62 - 134*	*06/21/24 12:58*	*06/25/24 14:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1500**		60		mg/Kg		06/21/24 15:09	06/24/24 15:34	20

Client Sample Results

Client: JAKD Solutions
Project/Site: L H #174

Job ID: 885-6508-1

Client Sample ID: Bottom 2

Date Collected: 06/18/24 10:45
Date Received: 06/19/24 07:00

Lab Sample ID: 885-6508-2

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		06/20/24 10:21	06/25/24 00:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*141*		*35 - 166*	*06/20/24 10:21*	*06/25/24 00:16*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		06/20/24 10:21	06/25/24 00:16	1
Ethylbenzene	ND		0.050		mg/Kg		06/20/24 10:21	06/25/24 00:16	1
Toluene	ND		0.050		mg/Kg		06/20/24 10:21	06/25/24 00:16	1
Xylenes, Total	ND		0.099		mg/Kg		06/20/24 10:21	06/25/24 00:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*48 - 145*	*06/20/24 10:21*	*06/25/24 00:16*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**220**		9.9		mg/Kg		06/21/24 12:58	06/25/24 14:56	1
Motor Oil Range Organics [C28-C40]	**140**		50		mg/Kg		06/21/24 12:58	06/25/24 14:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*89*		*62 - 134*	*06/21/24 12:58*	*06/25/24 14:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1500**		60		mg/Kg		06/21/24 15:09	06/24/24 16:12	20

Client Sample Results

Client: JAKD Solutions
Project/Site: L H #174

Job ID: 885-6508-1

Client Sample ID: North Well

Date Collected: 06/18/24 11:00
Date Received: 06/19/24 07:00

Lab Sample ID: 885-6508-3

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		06/20/24 10:21	06/25/24 01:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*35 - 166*	*06/20/24 10:21*	*06/25/24 01:26*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		06/20/24 10:21	06/25/24 01:26	1
Ethylbenzene	ND		0.049		mg/Kg		06/20/24 10:21	06/25/24 01:26	1
Toluene	ND		0.049		mg/Kg		06/20/24 10:21	06/25/24 01:26	1
Xylenes, Total	ND		0.098		mg/Kg		06/20/24 10:21	06/25/24 01:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*48 - 145*	*06/20/24 10:21*	*06/25/24 01:26*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**260**		10		mg/Kg		06/21/24 12:58	06/25/24 15:09	1
Motor Oil Range Organics [C28-C40]	**180**		50		mg/Kg		06/21/24 12:58	06/25/24 15:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*97*		*62 - 134*	*06/21/24 12:58*	*06/25/24 15:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2400**		60		mg/Kg		06/21/24 15:09	06/24/24 16:25	20

Client Sample Results

Client: JAKD Solutions
Project/Site: L H #174

Job ID: 885-6508-1

Client Sample ID: West Well

Date Collected: 06/18/24 11:10
Date Received: 06/19/24 07:00

Lab Sample ID: 885-6508-4

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	6.8		4.8		mg/Kg		06/20/24 10:21	06/25/24 01:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*133*		*35 - 166*	*06/20/24 10:21*	*06/25/24 01:50*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		06/20/24 10:21	06/25/24 01:50	1
Ethylbenzene	0.058		0.048		mg/Kg		06/20/24 10:21	06/25/24 01:50	1
Toluene	0.11		0.048		mg/Kg		06/20/24 10:21	06/25/24 01:50	1
Xylenes, Total	0.42		0.096		mg/Kg		06/20/24 10:21	06/25/24 01:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*48 - 145*	*06/20/24 10:21*	*06/25/24 01:50*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	250		9.3		mg/Kg		06/21/24 12:58	06/25/24 15:22	1
Motor Oil Range Organics [C28-C40]	180		47		mg/Kg		06/21/24 12:58	06/25/24 15:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*86*		*62 - 134*	*06/21/24 12:58*	*06/25/24 15:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1500		60		mg/Kg		06/21/24 15:09	06/24/24 16:38	20

Client Sample Results

Client: JAKD Solutions
Project/Site: L H #174

Job ID: 885-6508-1

Client Sample ID: South Well

Date Collected: 06/18/24 11:20
Date Received: 06/19/24 07:00

Lab Sample ID: 885-6508-5

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**5.6**		4.9		mg/Kg		06/20/24 10:21	06/25/24 02:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*138*		*35 - 166*	*06/20/24 10:21*	*06/25/24 02:13*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		06/20/24 10:21	06/25/24 02:13	1
Ethylbenzene	ND		0.049		mg/Kg		06/20/24 10:21	06/25/24 02:13	1
Toluene	ND		0.049		mg/Kg		06/20/24 10:21	06/25/24 02:13	1
Xylenes, Total	**0.20**		0.098		mg/Kg		06/20/24 10:21	06/25/24 02:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*48 - 145*	*06/20/24 10:21*	*06/25/24 02:13*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**880**		98		mg/Kg		06/21/24 12:58	06/22/24 01:22	10
Motor Oil Range Organics [C28-C40]	ND	D	490		mg/Kg		06/21/24 12:58	06/22/24 01:22	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*0*	*D S1-*	*62 - 134*	*06/21/24 12:58*	*06/22/24 01:22*	*10*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1700**		60		mg/Kg		06/21/24 15:09	06/24/24 16:51	20

Client Sample Results

Client: JAKD Solutions
Project/Site: L H #174

Job ID: 885-6508-1

Client Sample ID: East Well

Date Collected: 06/18/24 11:30
Date Received: 06/19/24 07:00

Lab Sample ID: 885-6508-6

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		06/20/24 10:21	06/25/24 03:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*132*		*35 - 166*	*06/20/24 10:21*	*06/25/24 03:00*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		06/20/24 10:21	06/25/24 03:00	1
Ethylbenzene	ND		0.050		mg/Kg		06/20/24 10:21	06/25/24 03:00	1
Toluene	ND		0.050		mg/Kg		06/20/24 10:21	06/25/24 03:00	1
Xylenes, Total	**0.19**		0.099		mg/Kg		06/20/24 10:21	06/25/24 03:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*48 - 145*	*06/20/24 10:21*	*06/25/24 03:00*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**710**		98		mg/Kg		06/21/24 14:47	06/24/24 15:18	10
Motor Oil Range Organics [C28-C40]	ND		490		mg/Kg		06/21/24 14:47	06/24/24 15:18	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*91*		*62 - 134*	*06/21/24 14:47*	*06/24/24 15:18*	*10*
Di-n-octyl phthalate (Surr)	*102*		*62 - 134*	*06/21/24 14:47*	*06/28/24 12:16*	*5*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1500**		60		mg/Kg		06/21/24 15:15	06/24/24 21:21	20

QC Sample Results

Client: JAKD Solutions
Project/Site: L H #174

Job ID: 885-6508-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-7074/1-A
Matrix: Solid
Analysis Batch: 7279

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 7074

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		06/20/24 10:21	06/24/24 22:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*35 - 166*	*06/20/24 10:21*	*06/24/24 22:42*	*1*

Lab Sample ID: LCS 885-7074/2-A
Matrix: Solid
Analysis Batch: 7279

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 7074

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			25.0	26.3		mg/Kg		105	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*216*	*S1+*	*35 - 166*

Lab Sample ID: 885-6508-1 MS
Matrix: Solid
Analysis Batch: 7279

Client Sample ID: Bottom 1
Prep Type: Total/NA
Prep Batch: 7074

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	ND		24.8	26.2		mg/Kg		106	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*214*	*S1+*	*35 - 166*

Lab Sample ID: 885-6508-1 MSD
Matrix: Solid
Analysis Batch: 7279

Client Sample ID: Bottom 1
Prep Type: Total/NA
Prep Batch: 7074

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	ND		25.0	25.7		mg/Kg		103	70 - 130	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*211*	*S1+*	*35 - 166*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-7074/1-A
Matrix: Solid
Analysis Batch: 7280

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 7074

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		06/20/24 10:21	06/24/24 22:42	1
Ethylbenzene	ND		0.050		mg/Kg		06/20/24 10:21	06/24/24 22:42	1
Toluene	ND		0.050		mg/Kg		06/20/24 10:21	06/24/24 22:42	1

QC Sample Results

Client: JAKD Solutions
Project/Site: L H #174

Job ID: 885-6508-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 885-7074/1-A
Matrix: Solid
Analysis Batch: 7280

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 7074

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.10		mg/Kg		06/20/24 10:21	06/24/24 22:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*48 - 145*	*06/20/24 10:21*	*06/24/24 22:42*	*1*

Lab Sample ID: LCS 885-7074/3-A
Matrix: Solid
Analysis Batch: 7280

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 7074

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	0.883		mg/Kg		88	70 - 130		
Ethylbenzene			1.00	0.833		mg/Kg		83	70 - 130		
m-Xylene & p-Xylene			2.00	1.72		mg/Kg		86	70 - 130		
o-Xylene			1.00	0.830		mg/Kg		83	70 - 130		
Toluene			1.00	0.829		mg/Kg		83	70 - 130		
Xylenes, Total			3.00	2.55		mg/Kg		85	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*48 - 145*

Lab Sample ID: 885-6508-2 MS
Matrix: Solid
Analysis Batch: 7280

Client Sample ID: Bottom 2
Prep Type: Total/NA
Prep Batch: 7074

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	ND		0.997	0.854		mg/Kg		86	70 - 130		
Ethylbenzene	ND		0.997	0.831		mg/Kg		81	70 - 130		
m-Xylene & p-Xylene	ND		1.99	1.74		mg/Kg		83	70 - 130		
o-Xylene	ND		0.997	0.838		mg/Kg		80	70 - 130		
Toluene	ND		0.997	0.828		mg/Kg		80	70 - 130		
Xylenes, Total	ND		2.99	2.58		mg/Kg		82	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*48 - 145*

Lab Sample ID: 885-6508-2 MSD
Matrix: Solid
Analysis Batch: 7280

Client Sample ID: Bottom 2
Prep Type: Total/NA
Prep Batch: 7074

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		0.993	0.878		mg/Kg		88	70 - 130	3	20
Ethylbenzene	ND		0.993	0.843		mg/Kg		83	70 - 130	2	20
m-Xylene & p-Xylene	ND		1.99	1.75		mg/Kg		84	70 - 130	1	20
o-Xylene	ND		0.993	0.848		mg/Kg		81	70 - 130	1	20
Toluene	ND		0.993	0.844		mg/Kg		82	70 - 130	2	20
Xylenes, Total	ND		2.98	2.60		mg/Kg		83	70 - 130	1	20

QC Sample Results

Client: JAKD Solutions
Project/Site: L H #174

Job ID: 885-6508-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 885-6508-2 MSD
Matrix: Solid
Analysis Batch: 7280

Client Sample ID: Bottom 2
Prep Type: Total/NA
Prep Batch: 7074

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	*93*		*48 - 145*

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-7181/1-A
Matrix: Solid
Analysis Batch: 7174

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 7181

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		06/21/24 12:58	06/21/24 21:18	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		06/21/24 12:58	06/21/24 21:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	*88*		*62 - 134*	*06/21/24 12:58*	*06/21/24 21:18*	*1*

Lab Sample ID: LCS 885-7181/2-A
Matrix: Solid
Analysis Batch: 7174

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 7181

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	49.2		mg/Kg		98	60 - 135		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Di-n-octyl phthalate (Surr)	*90*		*62 - 134*

Lab Sample ID: MB 885-7194/1-A
Matrix: Solid
Analysis Batch: 7288

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 7194

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		06/21/24 14:45	06/24/24 14:52	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		06/21/24 14:45	06/24/24 14:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	*100*		*62 - 134*	*06/21/24 14:45*	*06/24/24 14:52*	*1*

Lab Sample ID: LCS 885-7194/2-A
Matrix: Solid
Analysis Batch: 7288

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 7194

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	45.8		mg/Kg		92	60 - 135		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Di-n-octyl phthalate (Surr)	*108*		*62 - 134*

QC Sample Results

Client: JAKD Solutions
Project/Site: L H #174

Job ID: 885-6508-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-7199/1-A
Matrix: Solid
Analysis Batch: 7238

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 7199

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		06/21/24 15:09	06/24/24 15:08	1

Lab Sample ID: LCS 885-7199/2-A
Matrix: Solid
Analysis Batch: 7238

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 7199

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	28.1		mg/Kg		94	90 - 110		

QC Association Summary

Client: JAKD Solutions
Project/Site: L H #174

Job ID: 885-6508-1

GC VOA

Prep Batch: 7074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6508-1	Bottom 1	Total/NA	Solid	5030C	
885-6508-2	Bottom 2	Total/NA	Solid	5030C	
885-6508-3	North Well	Total/NA	Solid	5030C	
885-6508-4	West Well	Total/NA	Solid	5030C	
885-6508-5	South Well	Total/NA	Solid	5030C	
885-6508-6	East Well	Total/NA	Solid	5030C	
MB 885-7074/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-7074/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-7074/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-6508-1 MS	Bottom 1	Total/NA	Solid	5030C	
885-6508-1 MSD	Bottom 1	Total/NA	Solid	5030C	
885-6508-2 MS	Bottom 2	Total/NA	Solid	5030C	
885-6508-2 MSD	Bottom 2	Total/NA	Solid	5030C	

Analysis Batch: 7279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6508-1	Bottom 1	Total/NA	Solid	8015M/D	7074
885-6508-2	Bottom 2	Total/NA	Solid	8015M/D	7074
885-6508-3	North Well	Total/NA	Solid	8015M/D	7074
885-6508-4	West Well	Total/NA	Solid	8015M/D	7074
885-6508-5	South Well	Total/NA	Solid	8015M/D	7074
885-6508-6	East Well	Total/NA	Solid	8015M/D	7074
MB 885-7074/1-A	Method Blank	Total/NA	Solid	8015M/D	7074
LCS 885-7074/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	7074
885-6508-1 MS	Bottom 1	Total/NA	Solid	8015M/D	7074
885-6508-1 MSD	Bottom 1	Total/NA	Solid	8015M/D	7074

Analysis Batch: 7280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6508-1	Bottom 1	Total/NA	Solid	8021B	7074
885-6508-2	Bottom 2	Total/NA	Solid	8021B	7074
885-6508-3	North Well	Total/NA	Solid	8021B	7074
885-6508-4	West Well	Total/NA	Solid	8021B	7074
885-6508-5	South Well	Total/NA	Solid	8021B	7074
885-6508-6	East Well	Total/NA	Solid	8021B	7074
MB 885-7074/1-A	Method Blank	Total/NA	Solid	8021B	7074
LCS 885-7074/3-A	Lab Control Sample	Total/NA	Solid	8021B	7074
885-6508-2 MS	Bottom 2	Total/NA	Solid	8021B	7074
885-6508-2 MSD	Bottom 2	Total/NA	Solid	8021B	7074

GC Semi VOA

Analysis Batch: 7174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6508-5	South Well	Total/NA	Solid	8015M/D	7181
MB 885-7181/1-A	Method Blank	Total/NA	Solid	8015M/D	7181
LCS 885-7181/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	7181

Prep Batch: 7181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6508-1	Bottom 1	Total/NA	Solid	SHAKE	

QC Association Summary

Client: JAKD Solutions
Project/Site: L H #174

Job ID: 885-6508-1

GC Semi VOA (Continued)

Prep Batch: 7181 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6508-2	Bottom 2	Total/NA	Solid	SHAKE	
885-6508-3	North Well	Total/NA	Solid	SHAKE	
885-6508-4	West Well	Total/NA	Solid	SHAKE	
885-6508-5	South Well	Total/NA	Solid	SHAKE	
MB 885-7181/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-7181/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Prep Batch: 7194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6508-6	East Well	Total/NA	Solid	SHAKE	
MB 885-7194/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-7194/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 7288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6508-6	East Well	Total/NA	Solid	8015M/D	7194
MB 885-7194/1-A	Method Blank	Total/NA	Solid	8015M/D	7194
LCS 885-7194/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	7194

Analysis Batch: 7313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6508-1	Bottom 1	Total/NA	Solid	8015M/D	7181
885-6508-2	Bottom 2	Total/NA	Solid	8015M/D	7181
885-6508-3	North Well	Total/NA	Solid	8015M/D	7181
885-6508-4	West Well	Total/NA	Solid	8015M/D	7181

Analysis Batch: 7582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6508-6	East Well	Total/NA	Solid	8015M/D	7194

HPLC/IC

Prep Batch: 7199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6508-1	Bottom 1	Total/NA	Solid	300_Prep	
885-6508-2	Bottom 2	Total/NA	Solid	300_Prep	
885-6508-3	North Well	Total/NA	Solid	300_Prep	
885-6508-4	West Well	Total/NA	Solid	300_Prep	
885-6508-5	South Well	Total/NA	Solid	300_Prep	
885-6508-6	East Well	Total/NA	Solid	300_Prep	
MB 885-7199/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-7199/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 7238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6508-1	Bottom 1	Total/NA	Solid	300.0	7199
885-6508-2	Bottom 2	Total/NA	Solid	300.0	7199
885-6508-3	North Well	Total/NA	Solid	300.0	7199
885-6508-4	West Well	Total/NA	Solid	300.0	7199
885-6508-5	South Well	Total/NA	Solid	300.0	7199
885-6508-6	East Well	Total/NA	Solid	300.0	7199

QC Association Summary

Client: JAKD Solutions
Project/Site: L H #174

Job ID: 885-6508-1

HPLC/IC (Continued)

Analysis Batch: 7238 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-7199/1-A	Method Blank	Total/NA	Solid	300.0	7199
LCS 885-7199/2-A	Lab Control Sample	Total/NA	Solid	300.0	7199

Lab Chronicle

Client: JAKD Solutions
Project/Site: L H #174

Job ID: 885-6508-1

Client Sample ID: Bottom 1
Lab Sample ID: 885-6508-1
Date Collected: 06/18/24 10:30
Matrix: Solid
Date Received: 06/19/24 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			7074	AT	EET ALB	06/20/24 10:21
Total/NA	Analysis	8015M/D		1	7279	JP	EET ALB	06/24/24 23:06
Total/NA	Prep	5030C			7074	AT	EET ALB	06/20/24 10:21
Total/NA	Analysis	8021B		1	7280	JP	EET ALB	06/24/24 23:06
Total/NA	Prep	SHAKE			7181	KR	EET ALB	06/21/24 12:58
Total/NA	Analysis	8015M/D		1	7313	DH	EET ALB	06/25/24 14:42
Total/NA	Prep	300_Prep			7199	RC	EET ALB	06/21/24 15:09
Total/NA	Analysis	300.0		20	7238	RC	EET ALB	06/24/24 15:34

Client Sample ID: Bottom 2
Lab Sample ID: 885-6508-2
Date Collected: 06/18/24 10:45
Matrix: Solid
Date Received: 06/19/24 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			7074	AT	EET ALB	06/20/24 10:21
Total/NA	Analysis	8015M/D		1	7279	JP	EET ALB	06/25/24 00:16
Total/NA	Prep	5030C			7074	AT	EET ALB	06/20/24 10:21
Total/NA	Analysis	8021B		1	7280	JP	EET ALB	06/25/24 00:16
Total/NA	Prep	SHAKE			7181	KR	EET ALB	06/21/24 12:58
Total/NA	Analysis	8015M/D		1	7313	DH	EET ALB	06/25/24 14:56
Total/NA	Prep	300_Prep			7199	RC	EET ALB	06/21/24 15:09
Total/NA	Analysis	300.0		20	7238	RC	EET ALB	06/24/24 16:12

Client Sample ID: North Well
Lab Sample ID: 885-6508-3
Date Collected: 06/18/24 11:00
Matrix: Solid
Date Received: 06/19/24 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			7074	AT	EET ALB	06/20/24 10:21
Total/NA	Analysis	8015M/D		1	7279	JP	EET ALB	06/25/24 01:26
Total/NA	Prep	5030C			7074	AT	EET ALB	06/20/24 10:21
Total/NA	Analysis	8021B		1	7280	JP	EET ALB	06/25/24 01:26
Total/NA	Prep	SHAKE			7181	KR	EET ALB	06/21/24 12:58
Total/NA	Analysis	8015M/D		1	7313	DH	EET ALB	06/25/24 15:09
Total/NA	Prep	300_Prep			7199	RC	EET ALB	06/21/24 15:09
Total/NA	Analysis	300.0		20	7238	RC	EET ALB	06/24/24 16:25

Client Sample ID: West Well
Lab Sample ID: 885-6508-4
Date Collected: 06/18/24 11:10
Matrix: Solid
Date Received: 06/19/24 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			7074	AT	EET ALB	06/20/24 10:21
Total/NA	Analysis	8015M/D		1	7279	JP	EET ALB	06/25/24 01:50

Lab Chronicle

Client: JAKD Solutions
Project/Site: L H #174

Job ID: 885-6508-1

Client Sample ID: West Well
Lab Sample ID: 885-6508-4
Date Collected: 06/18/24 11:10
Matrix: Solid
Date Received: 06/19/24 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			7074	AT	EET ALB	06/20/24 10:21
Total/NA	Analysis	8021B		1	7280	JP	EET ALB	06/25/24 01:50
Total/NA	Prep	SHAKE			7181	KR	EET ALB	06/21/24 12:58
Total/NA	Analysis	8015M/D		1	7313	DH	EET ALB	06/25/24 15:22
Total/NA	Prep	300_Prep			7199	RC	EET ALB	06/21/24 15:09
Total/NA	Analysis	300.0		20	7238	RC	EET ALB	06/24/24 16:38

Client Sample ID: South Well
Lab Sample ID: 885-6508-5
Date Collected: 06/18/24 11:20
Matrix: Solid
Date Received: 06/19/24 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			7074	AT	EET ALB	06/20/24 10:21
Total/NA	Analysis	8015M/D		1	7279	JP	EET ALB	06/25/24 02:13
Total/NA	Prep	5030C			7074	AT	EET ALB	06/20/24 10:21
Total/NA	Analysis	8021B		1	7280	JP	EET ALB	06/25/24 02:13
Total/NA	Prep	SHAKE			7181	KR	EET ALB	06/21/24 12:58
Total/NA	Analysis	8015M/D		10	7174	PD	EET ALB	06/22/24 01:22
Total/NA	Prep	300_Prep			7199	RC	EET ALB	06/21/24 15:09
Total/NA	Analysis	300.0		20	7238	RC	EET ALB	06/24/24 16:51

Client Sample ID: East Well
Lab Sample ID: 885-6508-6
Date Collected: 06/18/24 11:30
Matrix: Solid
Date Received: 06/19/24 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			7074	AT	EET ALB	06/20/24 10:21
Total/NA	Analysis	8015M/D		1	7279	JP	EET ALB	06/25/24 03:00
Total/NA	Prep	5030C			7074	AT	EET ALB	06/20/24 10:21
Total/NA	Analysis	8021B		1	7280	JP	EET ALB	06/25/24 03:00
Total/NA	Prep	SHAKE			7194	KR	EET ALB	06/21/24 14:47
Total/NA	Analysis	8015M/D		10	7288	DH	EET ALB	06/24/24 15:18
Total/NA	Prep	SHAKE			7194	KR	EET ALB	06/21/24 14:47
Total/NA	Analysis	8015M/D		5	7582	DH	EET ALB	06/28/24 12:16
Total/NA	Prep	300_Prep			7199	RC	EET ALB	06/21/24 15:15
Total/NA	Analysis	300.0		20	7238	RC	EET ALB	06/24/24 21:21

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: JAKD Solutions
Project/Site: L H #174

Job ID: 885-6508-1

Laboratory: Eurofins Albuquerque

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-26-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
300.0	300_Prep	Solid	Chloride
8015M/D	5030C	Solid	Gasoline Range Organics (GRO)-C6-C10
8015M/D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015M/D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]
8021B	5030C	Solid	Benzene
8021B	5030C	Solid	Ethylbenzene
8021B	5030C	Solid	Toluene
8021B	5030C	Solid	Xylenes, Total

Oregon	NELAP	NM100001	02-26-25

Chain-of-Custody Record

Client: JAKD

Mailing Address:

Phone #: 505 860 1666

email or Fax#: James@jakdsolutions.com

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

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

Turn-Around Time: 5 day
☑ Standard ☐ Rush

Project Name: LH #174

Project #:

Project Manager: James McDaniel

Sampler: Chad Snell

On Ice: ☒ Yes ☐ No

# of Coolers: 1 Yoa2

Cooler Temp(Including CF): 0.7+0.7 (°C)

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

885-6508 COC

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	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)
6-18-24	10:30	Soil	Bottom 1	(1) 4oz	Cool	1	X	X					X			
	10:45		Bottom 2			2	X	X					X			
	11:00		North wall			3	X	X					X			
	11:10		West wall			4	X	X					X			
	11:20		South wall			5	X	X					X			
	11:30		East wall			6	X	X					X			

Date	Time	Relinquished by	Received by	Via	Date	Time
6-18-24	11:30pm				6/18/24	1330
6/18/24	1806			courier	6/19/24	7:00

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

Login Sample Receipt Checklist

Client: JAKD Solutions Job Number: 885-6508-1

Login Number: 6508 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: McQuiston, Steven

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	N/A	

Appendix C: Site Photos

Photo 1: BGT Berm Bottom

Appendix C: Site Photos

Photo 2: BGT Berm East Wall

Appendix C: Site Photos

Photo 3: BGT Berm North Wall

Appendix C: Site Photos

Photo 4: BGT Berm South Wall

Appendix C: Site Photos

Photo 5: BGT Berm West Wall

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Operator: DUGAN PRODUCTION CORP PO Box 420 Farmington, NM 87499	OGRID: 6515
	Action Number: 567326
	Action Type: [C-144] Below Grade Tank Plan (C-144B)

CONDITIONS

Created By	Condition	Condition Date
joseph.kennedy	None	3/27/2026