<u>District I</u> 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 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 Met	hod Permit or Closure Plan Application
BGT1 Closure of a pit, below Modification to an exist	stration osed alternative method r-grade tank, or proposed alternative method sting permit/or registration mitted for an existing permitted or non-permitted pit, below-grade tank,
Instructions: Please submit one application (F	orm C-144) per individual pit, below-grade tank or alternative request
environment. Nor does approval relieve the operator of its responsibility	or of liability should operations result in pollution of surface water, ground water or the to comply with any other applicable governmental authority's rules, regulations or ordinances.
Operator: Dugan Production Corp.	OGRID #: <u>006515</u>
Address: PO Box 420, Farmington, NM 87499-0420	
l i	OCD Permit Number:
1	ip 30N Range 14W County: San Juan
Center of Proposed Design: Latitude <u>36.78732</u> Lor	
Surface Owner: Federal State Private Tribal Trust on	
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: Thicknessmil	LLDPE HDPE PVC Other
☐ String-Reinforced	
Liner Seams: Welded Factory Other	Volume:bbl Dimensions: L x W x D
3.	
Volume:bbl Type of fluid: Produced	l Water
Tank Construction material:	
☐ Secondary containment with leak detection ☐ Visible sidew	
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Q	
I i	HDPE PVC Other
Emer type. Infomess	
4. Alternative Method:	
	e submitted to the Santa Fe Environmental Bureau office for consideration of approval.
	s submitted to the Santa Fe Environmental Dureau office for consideration of approval.
5.	
Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permar	
LI Chain link, six feet in height, two strands of barbed wire at top institution or church)	(Required if located within 1000 feet of a permanent residence, school, hospital,
Four foot height, four strands of barbed wire evenly spaced bet	ween one and four feet
✓ Alternate. Please specify <u>4'=3' Hog wire + Top Rail</u>	

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)	
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	
Yariances and Exceptions: Justifications and/or demonstrations of equivalency are required. Please check a box if one or more of the following is requested, □ 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.	
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 acceptant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptant must demonstrate compliance for each siting criteria below in the application.	ptable source
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
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
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. (Poes 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.	☐ Yes ☐ No
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	
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			
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		
Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 N Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doc 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 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 Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number:	O NMAC 15.17.9 NMAC		
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 doc 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. 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	(

12		
Permanent Pits Permit Application Checklist: Subsection B Instructions: Each of the following items must be attached to tattached.	of 19.15.17.9 NMAC he application. Please indicate, by a check mark in the box, that the	documents are
□ Hydrogeologic Report - based upon the requirements of Pasiting Criteria Compliance Demonstrations - based upon to Climatological Factors Assessment □ Certified Engineering Design Plans - based upon the appropriate Dike Protection and Structural Integrity Design - based upon the appropriate required Liner Specifications and Compatibility Assessment - based Quality Control/Quality Assurance Construction and Instation Operating and Maintenance Plan - based upon the appropriate required Construction and Instation Construction and Maintenance Plan - based upon the appropriate requirements of Pasiting Construction and Instation Construction and Maintenance Plan - based upon the appropriate requirements of Pasiting Construction and Instation Construction and Maintenance Plan - based upon the appropriate requirements of Pasiting Construction and Instation Construction and Instation Construction and Maintenance Plan - based upon the appropriate requirements of Pasiting Construction and Instation Construction and Instation Construction and Instation Construction and Instation Construction Co	he appropriate requirements of 19.15.17.10 NMAC priate requirements of 19.15.17.11 NMAC on the appropriate requirements of 19.15.17.11 NMAC ements of 19.15.17.11 NMAC upon the appropriate requirements of 19.15.17.11 NMAC lation Plan ate requirements of 19.15.17.12 NMAC	
☐ Freeboard and Overtopping Prevention Plan - based upon Nuisance or Hazardous Odors, including H ₂ S, Prevention Emergency Response Plan ☐ Oil Field Waste Stream Characterization ☐ Monitoring and Inspection Plan ☐ Erosion Control Plan ☐ Closure Plan - based upon the appropriate requirements of		
13.	()	
Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 th	grough 18, in regards to the proposed closure plan.	
	☐ P&A ☐ Permanent Pit ☒ Below-grade Tank ☐ Multi-well F	luid Management Pit
Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop sy	r temporary pits and closed-loop systems)	
closure plan. Please indicate, by a check mark in the box, that i ☐ Protocols and Procedures - based upon the appropriate requ ☐ Confirmation Sampling Plan (if applicable) - based upon tl ☐ Disposal Facility Name and Permit Number (for liquids, di	uirements of 19.15.17.13 NMAC a appropriate requirements of Subsection C of 19.15.17.13 NMAC illing fluids and drill cuttings) a the appropriate requirements of Subsection H of 19.15.17.13 NMAC ants of Subsection H of 19.15.17.13 NMAC	
15.		
Siting Criteria (regarding on-site closure methods only): 19.1 Instructions: Each siting criteria requires a demonstration of c	5.17.10 NMAC ompliance in the closure plan. Recommendations of acceptable sour iteria require justifications and/or demonstrations of equivalency. F	rce material are Please refer to
Ground water is less than 25 feet below the bottom of the buried of NM Office of the State Engineer - iWATERS database see		☐ Yes ☐ No ☐ NA
Ground water is between 25-50 feet below the bottom of the burie - NM Office of the State Engineer - iWATERS database see		☐ Yes ☐ No ☐ NA
Ground water is more than 100 feet below the bottom of the burie NM Office of the State Engineer - iWATERS database see		☐ Yes ☐ No ☐ NA
Within 100 feet of a continuously flowing watercourse, or 200 feet lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the	t of any other significant watercourse, lakebed, sinkhole, or playa proposed site	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, hospital, instruction - Visual inspection (certification) of the proposed site; Aeri	itution, or church in existence at the time of initial application. al photo; Satellite image	☐ Yes ☐ No
Within 300 horizontal feet of a private, domestic fresh water well at the time of initial application. - NM Office of the State Engineer - iWATERS database; V	or spring used for domestic or stock watering purposes, in existence isual inspection (certification) of the proposed site	Yes No
Written confirmation or verification from the municipality; Written	- , , , , , , , , , , , , , , , , , , ,	☐ Yes ☐ No
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic m	ap; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within incorporated municipal boundaries or within a defined mu	nicipal fresh water well field covered under a municipal ordinance	

- Engineering measures incorporated into the design; NM Society; Topographic map	Bureau of Geology & Mineral Resources; USG	S; NM Geological ☐ Yes ☐ No
Within a 100-year floodplain. FEMA map		Yes No
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instruct by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon to Proof of Surface Owner Notice - based upon the appropriations - Construction/Design Plan of Burial Trench (if applicable) Construction/Design Plan of Temporary Pit (for in-place to Protocols and Procedures - based upon the appropriate requirement of Confirmation Sampling Plan (if applicable) - based upon to Waste Material Sampling Plan - based upon the appropriate requirement of Confirmation Plan - based upon the appropriate requirement of Re-vegetation Plan - based upon the appropriate requirement of Site Reclamation Plan - based upon the appropriate requirement of Plan - based upon	he appropriate requirements of 19.15.17.10 NM tte requirements of Subsection E of 19.15.17.13 based upon the appropriate requirements of Subtrial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC he appropriate requirements of 19.15.17.13 NMAC requirements of 19.15.17.13 NMAC fulling fluids and drill cuttings or in case on-site of Subsection H of 19.15.17.13 NMAC ants of Subsection H of 19.15.17.13 NMAC	IAC NMAC bsection K of 19.15.17.11 NMAC iate requirements of 19.15.17.11 NMAC
17.		
Operator Application Certification: I hereby certify that the information submitted with this applicat Name (Print): Signature: e-mail address:	ion is true, accurate and complete to the best of Title: Date: Telephone:	my knowledge and belief.
18.		
OCD Approval: Permit Application (including closure plan) X Closure Plan (bhly)/ D OCD Condition	ns (see attachment)
OCD Approval: ☐ Permit Application (including closure plan OCD Representative Signature: Victoria Venega	which is a second of the second of the second	ns (see attachment) oroval Date: 12/01/2023
	which is a second of the second of the second	
OCD Representative Signature: Victoria Veneg	OCD Permit Number: n): 19.15.17.13 NMAC sure plan prior to implementing any closure a thin 60 days of the completion of the closure a	proval Date: 12/01/2023 BGT1 ctivities and submitting the closure report. ctivities. Please do not complete this ppleted.
OCD Representative Signature: Victoria Venegorialist Title: Environmental Specialist 19. Closure Report (required within 60 days of closure completic Instructions: Operators are required to obtain an approved closure closure report is required to be submitted to the division wis section of the form until an approved closure plan has been obtained to the form until an approved closure plan has b	OCD Permit Number: n): 19.15.17.13 NMAC sure plan prior to implementing any closure a thin 60 days of the completion of the closure a ained and the closure activities have been com	proval Date: 12/01/2023 BGT1 ctivities and submitting the closure report. ctivities. Please do not complete this ppleted.
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Title: Environmental Specialist 19. Closure Report (required within 60 days of closure completic Instructions: Operators are required to obtain an approved closure report is required to be submitted to the division wis section of the form until an approved closure plan has been obtained. 20. Closure Method: Waste Excavation and Removal On-Site Closure Method If different from approved plan, please explain. 21. Closure Report Attachment Checklist: Instructions: Each of 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 privon Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required for Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation)	OCD Permit Number: n): 19.15.17.13 NMAC sure plan prior to implementing any closure a thin 60 days of the completion of the closure a ained and the closure activities have been com Closure Completion D Alternative Closure Method Wa the following items must be attached to the cl	BGT1 ctivities and submitting the closure report. ctivities. Please do not complete this apleted. ate: ste Removal (Closed-loop systems only)
Title: Environmental Specialist 19. Closure Report (required within 60 days of closure completic Instructions: Operators are required to obtain an approved closure report is required to be submitted to the division wis section of the form until an approved closure plan has been obtained. 20. Closure Method: Waste Excavation and Removal On-Site Closure Method If different from approved plan, please explain. 21. Closure Report Attachment Checklist: Instructions: Each of 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 privon Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required for Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique	OCD Permit Number: n): 19.15.17.13 NMAC sure plan prior to implementing any closure a thin 60 days of the completion of the closure a ained and the closure activities have been com Closure Completion D Alternative Closure Method Wa the following items must be attached to the cl	BGT1 ctivities and submitting the closure report. ctivities. Please do not complete this apleted. ate: ste Removal (Closed-loop systems only)

22.	
Operator Closure Certification:	
I hereby certify that the information and attachments submitted with the belief. I also certify that the closure complies with all applicable closure.	is closure report is true, accurate and complete to the best of my knowledge and re requirements and conditions specified in the approved closure plan.
Name (Print): _Kevin Smaka	Title: Regulatory Engineer
Signature: 18 Marie Marie	Date: _//- 29-23
e-mail address: Kevin.Smaka@duganproduction.com	Telephone: <u>505-325-1821 x1049</u>

Dugan Production Corp. Carpenter Com #1E BGT Closure Report

API# 30-045-23613 F-25-30N-14W 1850 FNL 1480 FWL

Dugan Production Corp. has closed the BGT located at the Carpenter om #1E well location. Dugan commenced closure activities on 9/20/2023 by removing the steel pit and sampling soils below the BGT, including wet or stained soils. Soil samples were collected at a depth of 8' below grade surface. Soil samples were taken to a local lab and analyzed for chlorides, benzene, toluene, ethyl benzene, xylene and total petroleum hydrocarbons.

Prior to commencing these activities notice was provided to the landowner as well as the OCD of our intent to close the pit. Proof of the notice has been included with this report.

A copy of the lab results has been included with this report. A tabulation of the results is found here:

	BTEX		TPH		Chlorides	
Location	(mg/kg)		(mg/kg)		(mg/kg)	
Carpenter						
Com #1E		0		0		607

Based on the information found in hydrogeologic reports for nearby wells, the depth to ground water is greater than 100 feet to the base of the BGT. This means that the standard of closure for chlorides is 20,000 mg/mg. As such these results meet the standard for closure under NMAC 19.15.29 and 19.15.17.

When making the depth to groundwater determination, Dugan consulted several hydrogeologic reports for BGTs in the same township. In addition, Dugan checked the iWaters database to determine depth to groundwater. No records were returned of any nearby wells. As such Dugan is depending on the data from nearby facilities. In each case the depth to ground water was greater than 100 feet.

Once approved for closure Dugan will backfill the hole with non-contaminated fill material. The topping material will be of sufficient quality to allow for adequate regrowth.

The location will be seeded with a mix compatible and appropriate for the local vegetative community in the surrounding area.

Due to the lateness in the growing season the location will be seeded, in the Spring of 2023, and monitored for reclamation purposes. The seed will be disced and drilled with a drill seeder. Once successful reclamation has occurred Dugan will provide photo evidence to the division.

The following table is the seed menu we will use to formulate the seed mix:

Table 2. Menu based seed mix for use in reclamation for sagebrush/grass community (minimum requirement) **

Common Name	Scientific Names	Variety	Season	Form	PLS lbs/acre*
	Plant tv	vo of the followin	g:		
Fourwing saltbush	Atriplex canescens	VNS	Cool	Shrub	2.0
Antelope bitterbrush	Purshia tridentata	VNS	Cool	Shrub	2.0
Winterfat	Krascheninnikovia lanata	VNS	Cool	Shrub	2.0
2.4	And thr	ee of the followin	ıg:	<u> </u>	
Indian ricegrass	Achnatherum hymenoides	Paloma or Rimrock	Cool	Bunch	4.0
Blue grama	Bouteloua gracilis	Alma or Hachita	Warm	Sod- forming	2.0
Galleta	Pleuraphis jamesii	Viva florets	Warm	Bunch/Sod -forming	3.0
Sand dropseed	Sporobolus cryptandrus	VNS	Warm	Bunch	0.5
Western wheatgrass	Pascopyrum smithii	Arriba	Cool	Sod- forming	4.0
	And on	e of the followin	g:		
Bottle brush squirreltail	Elymus elymoides	Tusas or VNS	Cool	Bunch	3.0
Siberian wheatgrass	Agropyron fragile	Vavilov	Cool	Bunch	3.0
1	And tv	o of the followin	g		
Small burnet	Sanguisorba minor	Delar	Cool	Forb	2.0
Rocky Mtn. bee plant	Cleome serrulata	Local collection or VNS	Cool	Forb	0.25
Blue flax	Linum lewisii	Apar	Cool	Forb	0.25

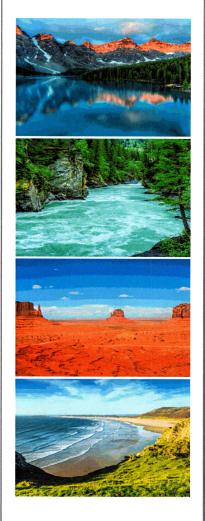
Solid waste would have been hauled to either Envirotech or IEI land farm facilities:

Envirotech: Permit #NM01-0011 and IEI: Permit # NM01-0010B

Liquid waste would have been hauled to Dugan's SOB SWD facility:

Dugan's Sanchez O'Brien SWD #1 (Permit # SWD-694)

Report to: Kevin Smaka



5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Dugan Production Corp.

Project Name:

BGT Closure

Work Order:

E309158

Job Number:

06094-0177

Received:

9/21/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 9/26/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 9/26/23

Kevin Smaka PO Box 420 Farmington, NM 87499

Project Name: BGT Closure

Workorder: E309158

Date Received: 9/21/2023 2:34:00PM

Kevin Smaka,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/21/2023 2:34:00PM, under the Project Name: BGT Closure.

The analytical test results summarized in this report with the Project Name: BGT Closure apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

Alexa Michaels

Sample Custody Officer Office: 505-632-1881

labadmin@envirotech-inc.com

Field Offices:

Southern New Mexico Area Lynn Jarboe

Technical Representative/Client Services

Office: 505-421-LABS(5227)

Cell: 505-320-4759

ljarboe@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

West Texas Midland/Odessa Area Rayny Hagan

Technical Representative Office: 505-421-LABS(5227)

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Sample Summary

1.10.00
Reported:
09/26/23 14:20

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container	
Carpenter	E309158-01A Soil	09/20/23	09/21/23	Glass Jar, 2 oz.	1 6 1
Monte Carlo	E309158-02A Soil	09/20/23	09/21/23	Glass Jar, 2 oz.	



Sample Data

Dugan Production Corp.	Project Name:	BGT Closure	
PO Box 420	Project Number:	06094-0177	Reported:
Farmington NM, 87499	Project Manager:	Kevin Smaka	9/26/2023 2:20:54PM

Carpenter E309158-01

		E309158-01		1 -		*.
		Reporting		·		
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: IY		Batch: 2338111
Benzene	ND	0.0250	1	09/22/23	09/25/23	***
Ethylbenzene	ND	0.0250	1	09/22/23	09/25/23	
Toluene	ND	0.0250	1	09/22/23	09/25/23	
o-Xylene	ND	0.0250	1	09/22/23	09/25/23	
p,m-Xylene	ND	0.0500	1	09/22/23	09/25/23	
Total Xylenes	ND	0.0250	1	09/22/23	09/25/23	
Surrogate: 4-Bromochlorobenzene-PID		94.4 %	70-130	09/22/23	09/25/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: IY	1 1	Batch: 2338111
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/23	09/25/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.5 %	70-130	09/22/23	09/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: JL		Batch: 2338102
Diesel Range Organics (C10-C28)	ND	25.0	1	09/22/23	09/23/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/22/23	09/23/23	
Surrogate: n-Nonane		101 %	50-200	09/22/23	09/23/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2339003
Chloride	607	20.0	1	09/25/23	09/25/23	



QC Summary Data

	10.1 4 4 4 7		
Dugan Production Corp.	Project Name:	BGT Closure	Reported:
PO Box 420	Project Number:	06094-0177	reporteu.
Farmington NM, 87499	Project Manager:	Kevin Smaka	9/26/2023 2:20:54PM

Result R	Farmington NM, 87499		Project Manage	r: Kev	in Smaka	* * *			9/2	6/2023 2:20:54PM
Result Limit Level Result Rec Limits RPD Limit Limit mg/kg			Volatile (Organics by	EPA 802	21B				Analyst: IY
Blank (2338111-BLK1) Beruzene ND 0.0250 Toliuene ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 Toliuene ND 0.0250 Toliuene ND 0.0250 ND 0.0250 ND 0.0250 Toliuene ND 0.0250 Toliuene ND 0.0250 ND 0.0250 ND 0.0250 Toliuene ND 0.0250 Toliuene ND 0.0250	Analyte	Result		0.7		Rec		RPD		
Service ND		mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Server ND	Blank (2338111-BLK1)						Prepared: 09	9/22/23 Anal	vzed: 09/26/23	
Ethylenceme ND 0,0250 ND 0,0	Benzene	ND	0.0250					-	1 11	
ND	Ethylbenzene	ND								
ND 0,0250 ND 0,0500 ND 0,0500 ND 0,0500 ND 0,0500 ND 0,0250 ND 0,0	foluene	ND								
No	o-Xylene	ND								
Surrogate: 4-Bromochlorobenzene-PID 7,56 8.00 94.5 70-130	o,m-Xylene	ND	0.0500							
Prepared: 09/22/23 Analyzed: 09/26/2:	Total Xylenes	ND								
Senzene 4.26 0.0250 5.00 85.2 70-130	Surrogate: 4-Bromochlorobenzene-PID	7.56	* F	8.00		94.5	70-130			
Ethylbenzene 4.18 0.0250 5.00 83.6 70-130 February (2014)	LCS (2338111-BS1)							Prepared: 09	9/22/23 Anal	yzed: 09/26/23
Foluene 4.23 0.0250 5.00 84.7 70-130	Benzene	4.26	0.0250	5.00		85.2	70-130			
Xylene 4.25 0.0250 5.00 85.0 70-130Xylene 8.55 0.0500 10.0 85.5 70-130Xylene 8.55 0.0500 10.0 85.5 70-130Xylene 8.55 0.0500 15.0 85.3 70-130Xylene 8.55 70-130Xylene 8.55 70-130Xylene 8.55 70-130Xylene 8.55 70-130Xylene 8.50 94.8 70-130Xylene 8.50 94.8 70-130Xylene 94.8 70-130Xylene 94.8 70-130Xylene 94.8 70-130Xylene 94.5 90.0250 5.00 ND 92.5 54-133Xylene 94.5 90.0250 5.00 ND 91.8 61-130Xylene 92.5 90.0250 5.00 ND 91.8 61-130Xylene 92.5 90.0250 5.00 ND 91.8 61-130Xylene 92.5 90.0250 5.00 ND 92.5 63-131Xylene 92.5 90.0500 10.0 ND 92.5 63-131Xylene 92.5 90.0500 10.0 ND 92.5 63-131Xylene 92.5 90.0500 15.0 ND 92.2 63-131Xylene 92.5 90.0500 15.0 ND 92.2 63-131Xylene 92.5 90.0500 10.0 ND 92.2 63-131Xylene 92.0 92.0 92.0 92.0 92.0 92.0 92.0 92.0	Ethylbenzene	4.18	0.0250	5.00		83.6	70-130			
No.	Coluene	4.23	0.0250	5.00		84.7	70-130			
Source S	-Xylene	4.25	0.0250	5.00		85.0	70-130			
Source: E309162-22 Prepared: 09/22/23 Analyzed: 09/26/23	o,m-Xylene	8.55	0.0500	10.0		85.5	70-130			
Source: E309162-22 Prepared: 09/22/23 Analyzed: 09/26/23	Total Xylenes	12.8	0.0250	15.0		85.3	70-130			
Senzene	Surrogate: 4-Bromochlorobenzene-PID	7.58		8.00		94.8	70-130	•		
Ethylbenzene 4.53 0.0250 5.00 ND 90.6 61-133 Followne 4.59 0.0250 5.00 ND 91.8 61-130 Followne 4.59 0.0250 5.00 ND 91.8 61-130 Followne 4.58 0.0250 5.00 ND 91.6 63-131 Followne 4.58 0.0250 10.0 ND 92.5 63-131 Followne 4.58 0.0250 15.0 ND 92.2 63-131 Followne 4.58 0.0250 15.0 ND 92.2 63-131 Followners: 4-Bromochlorobenzene-PID 7.60 8.00 95.0 70-130 Followners: 4-Bromochlorobenzene-PID 8.00 Source: E309162-22 Prepared: 09/22/23 Analyzed: 09/26/23 Followners: 4-28 0.0250 5.00 ND 85.5 54-133 7.78 20 Followners: 4-20 0.0250 5.00 ND 84.0 61-133 7.56 20 Followners: 4-26 0.0250 5.00 ND 85.2 61-130 7.46 20 Followners: 4-26 0.0250 5.00 ND 85.2 61-131 7.24 20 Followners: 4-26 0.0250 5.00 ND 85.2 63-131 7.24 20 Followners: 4-26 0.0250 5.00 ND 85.2 63-131 7.24 20 Followners: 4-26 0.0250 5.00 ND 85.2 63-131 7.24 20 Followners: 4-26 0.0250 5.00 ND 85.2 63-131 7.24 20 Followners: 4-26 0.0250 5.00 ND 85.2 63-131 7.24 20 Followners: 4-26 0.0250 5.00 ND 85.2 63-131 7.24 20 Followners: 4-26 0.0250 5.00 ND 85.2 63-131 7.24 20 Followners: 4-26 0.0250 5.00 ND 85.2 63-131 7.24 20 Followners: 4-26 0.0250 5.00 ND 85.2 63-131 7.24 20 Followners: 4-26 0.0250 5.00 ND 85.2 63-131 7.24 20 Followners: 4-26 0.0250 5.00 ND 85.2 63-131 7.24 20 Followners: 4-26 0.0250 5.00 ND 85.2 63-131 7.24 20 Followners: 4-26 0.0250 5.00 ND 85.2 63-131 7.52 20 Followners: 4-26 0.0250 5.00 ND 85.8 63-131 7.52 20 Followners: 4-26 0.0250 5.00 ND 85.8 63-131 7.52 20 Followners: 4-26 0.0250 5.00 ND 85.8 63-131 7.52 20 Followners: 4-26 0.0250 5.00 ND 85.8 63-131 7.52 20 Followners: 4-26 0.0250 5.00 ND 85.8 63-131 7.52 20 Followners: 4-26 0.0250 5.00 ND 85.8 63-131 7.52 20 Followners: 4-26 0.0250 5.00 ND 85.8 63-131 7.52 20 Followners: 4-26 0.0250 5.00 ND 85.8 63-131 7.52 20 Followners: 4-26 0.0250 5.00 ND 85.8 63-131 7.52 20 Followners: 4-26 0.0250 5.00 ND 85.8 63-131 7.52 20 Followners: 4-26 0.0250 5.00 ND 85.8 63-131 7.52 20 Followners: 4-26 0.0250 5.00 ND 85.8 63-131 7.52 20 Followners: 4-26 0.0250 5.00 ND 85.8 63-131 7.52 20 Followners: 4-26 0.0250 5.00 ND 85.8	Matrix Spike (2338111-MS1)			330.6	Source:	E309162-2	22	Prepared: 09	9/22/23 Anal	yzed: 09/26/23
Foluene 4.59 0.0250 5.00 ND 91.8 61-130 Forum 4.58 0.0250 5.00 ND 91.6 63-131 Forum 4.58 0.0250 5.00 ND 91.6 63-131 Forum 4.58 0.0250 10.0 ND 92.5 63-131 Forum 4.58 0.0250 15.0 ND 92.2 63-131 Forum 4.58 0.0250 15.0 ND 92.2 63-131 Forum 4.58 0.0250 15.0 ND 95.0 Forum 4.58 0.0250 Forum 4.28 0.0250 5.00 ND 85.5 54-133 7.78 20 Forum 4.28 0.0250 5.00 ND 84.0 61-133 7.56 20 Forum 4.26 0.0250 5.00 ND 85.2 61-130 7.46 20 Forum 4.26 0.0250 5.00 ND 85.2 63-131 7.24 20 Forum 4.26 0.0250 5.00 ND 85.2 63-131 7.24 20 Forum 4.26 0.0250 5.00 ND 85.2 63-131 7.24 20 Forum 4.26 0.0250 5.00 ND 85.2 63-131 7.24 20 Forum 4.26 0.0250 5.00 ND 85.2 63-131 7.24 20 Forum 4.26 0.0250 5.00 ND 85.2 63-131 7.24 20 Forum 4.26 0.0250 5.00 ND 85.2 63-131 7.24 20 Forum 4.26 0.0250 5.00 ND 85.2 63-131 7.24 20 Forum 4.26 0.0250 5.00 ND 85.2 63-131 7.24 20 Forum 4.26 0.0250 5.00 ND 85.2 63-131 7.24 20 Forum 4.26 0.0250 5.00 ND 85.2 63-131 7.24 20 Forum 4.26 0.0250 5.00 ND 85.2 63-131 7.24 20 Forum 4.26 0.0250 5.00 ND 85.2 63-131 7.24 20 Forum 4.26 0.0250 5.00 ND 85.2 63-131 7.24 20 Forum 4.26 0.0250 5.00 ND 85.2 63-131 7.24 20 Forum 4.26 0.0250 5.00 ND 85.2 63-131 7.24 20 Forum 4.26 0.0250 5.00 ND 85.2 63-131 7.24 20 Forum 4.26 0.0250 5.00 ND 85.2 63-131 7.24 20 Forum 4.26 0.0250 5.00 ND 85.2 63-131 7.52 20 Forum 4.26 0.0250 5.00 ND 85.8 63-131 7.52 20 Forum 4.26 0.0250 5.00 ND 85.8 63-131 7.52 20 Forum 4.26 0.0250 5.00 ND 85.8 63-131 7.52 20 Forum 4.26 0.0250 5.00 ND 85.8 63-131 7.52 20 Forum 4.26 0.0250 5.00 ND 85.8 63-131 7.52 20 Forum 4.26 0.0250 5.00 ND 85.8 63-131 7.52 20 Forum 4.26 0.0250 5.00 ND 85.8 63-131 7.52 20 Forum 4.26 0.0250 5.00 ND 85.8 63-131 7.52 20 Forum 4.26 0.0250 5.00 ND 85.8 63-131 7.52 20 Forum 4.26 0.0250 5.00 ND 85.8 63-131 7.52 20 Forum 4.26 0.0250 5.00 ND 85.8 63-131 7.52 20 Forum 4.26 0.0250 5.00 ND 85.8 63-131 7.52 20 Forum 4.26 0.0250 5.00 ND 85.8 63-131 7.52 20 Forum 4.26 0.0250 5.00 ND 85.8 63-131 7.52 20 Forum 4.26 0.0250 5.00 ND 85.8 63-131 7.52 20 Forum 4.26 0.0250 5.00 ND 85.8 63-131 7.52 20 Forum 4.26 0.0250 F	Benzene	4.62	0.0250	5.00	ND	92.5	54-133			
A-Sylene 4.58 0.0250 5.00 ND 91.6 63-131 0.0250 0.0500 10.0 ND 92.5 63-131 0.0250 15.0 ND 92.5 63-131 0.0250 15.0 ND 92.2 63-131 0.0250 15.0 ND 92.2 63-131 0.0250 15.0 ND 92.2 63-131 0.0250 15.0 ND 95.0 70-130 0.0250 0.0250 0.0250 15.0 ND 85.5 54-133 7.78 20 0.0250 0.0250 15.0 ND 85.2 61-130 7.56 20 0.0250 0.	Ethylbenzene	4.53	0.0250	5.00	ND	90.6	61-133			
No.maxylene 9.25 0.0500 10.0 ND 92.5 63-131 Source: 4-Bromochlorobenzene-PID 7.60 8.00 95.0 70-130 Matrix Spike Dup (2338111-MSD1) Source: E309162-22 Prepared: 09/22/23 Analyzed: 09/26/23 Analyzed: 09/26/23 Prepared: 09/22/23 Analyzed: 09/26/23 Analyzed: 09/26/23 One of the state	Toluene	4.59	0.0250	5.00	ND	91.8	61-130			
Total Xylenes 13.8 0.0250 15.0 ND 92.2 63-131	p-Xylene	4.58	0.0250	5.00	ND	91.6	63-131			
Surrogate: 4-Bromochlorobenzene-PID 7.60 8.00 95.0 70-130 Matrix Spike Dup (2338111-MSD1) Senzene 4.28 0.0250 5.00 ND 85.5 54-133 7.78 20 Ethylbenzene 4.20 0.0250 5.00 ND 84.0 61-133 7.56 20 Foluene 4.26 0.0250 5.00 ND 85.2 61-130 7.46 20 E-Xylene 4.26 0.0250 5.00 ND 85.2 63-131 7.24 20 Enn-Xylene 8.58 0.0500 10.0 ND 85.8 63-131 7.52 20	o,m-Xylene	9.25	0.0500	10.0	ND	92.5	63-131			
Source: E309162-22 Prepared: 09/22/23 Analyzed: 09/26/23 Senzene 4.28 0.0250 5.00 ND 85.5 54-133 7.78 20 Ethylbenzene 4.20 0.0250 5.00 ND 84.0 61-133 7.56 20 Foluene 4.26 0.0250 5.00 ND 85.2 61-130 7.46 20 Foluene 4.26 0.0250 5.00 ND 85.2 63-131 7.24 20 Foluene 4.26 0.0250 5.00 ND 85.2 63-131 7.24 20 Foluene 8.58 0.0500 10.0 ND 85.8 63-131 7.52 20 Foluene 8.58 0.0500 10.0 ND 85.8 63-131 7.52 20 Foluene 8.58 0.0500 10.0 ND 85.8 63-131 7.52 20	Total Xylenes	13.8	0.0250	15.0	ND	92.2	63-131			
Benzene 4.28 0.0250 5.00 ND 85.5 54-133 7.78 20 5thylbenzene 4.20 0.0250 5.00 ND 84.0 61-133 7.56 20 Foluene 4.26 0.0250 5.00 ND 85.2 61-130 7.46 20 Xylene 4.26 0.0250 5.00 ND 85.2 63-131 7.24 20 6m-Xylene 8.58 0.0500 10.0 ND 85.8 63-131 7.52 20	Surrogate: 4-Bromochlorobenzene-PID	7.60		8.00		95.0	70-130			
Ethylbenzene 4.20 0.0250 5.00 ND 84.0 61-133 7.56 20 Toluene 4.26 0.0250 5.00 ND 85.2 61-130 7.46 20 0-Xylene 4.26 0.0250 5.00 ND 85.2 63-131 7.24 20 0.m-Xylene 8.58 0.0500 10.0 ND 85.8 63-131 7.52 20	Matrix Spike Dup (2338111-MSD1)				Source:	E309162-2	22	Prepared: 09	9/22/23 Anal	yzed: 09/26/23
Foluene 4.26 0.0250 5.00 ND 85.2 61-130 7.46 20Xylene 4.26 0.0250 5.00 ND 85.2 63-131 7.24 20Xylene 8.58 0.0500 10.0 ND 85.8 63-131 7.52 20	Benzene	4.28	0.0250	5.00	ND	85.5	54-133	7.78	20	
Xylene 4.26 0.0250 5.00 ND 85.2 63-131 7.24 20 cm-Xylene 8.58 0.0500 10.0 ND 85.8 63-131 7.52 20	Ethylbenzene	4.20	0.0250	5.00	ND	84.0	61-133	7.56	20	
m-Xylene 8.58 0.0500 10.0 ND 85.8 63-131 7.52 20	Toluene	4.26	0.0250	5.00	ND	85.2	61-130	7.46	20	
	p-Xylene	4.26	0.0250	5.00	ND	85.2	63-131	7.24	20	
Total Xylenes 12.8 0.0250 15.0 ND 85.6 63-131 7.43 20	,m-Xylene	8.58	0.0500	10.0	ND	85.8	63-131	7.52	20	
	otal Xylenes	12.8	0.0250	15.0	ND	85.6	63-131	7.43	20	

8.00

70-130

7.64

Surrogate: 4-Bromochlorobenzene-PID

Surrogate: 1-Chloro-4-fluorobenzene-FID

7.56

QC Summary Data

		the state of the s	111 - 1 - 1	
Dugan Production Corp.	Project Name:	BGT Closure		Reported:
PO Box 420	Project Number:	06094-0177		neporteu.
Farmington NM, 87499	Project Manager:	Kevin Smaka		9/26/2023 2:20:54PM

Fairington NM, 87499		Project Manage	r: Ke	vin Smaka				9/2	6/2023 2:20:54PM
	Non	halogenated	Organics b	y EPA 80	15D - G	RO			Analyst: IY
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD	RPD Limit	
		ing kg	mg/kg	mg/kg	70	%	%	%	Notes
Blank (2338111-BLK1)			Prepared: 09/2				9/22/23 Anal	yzed: 09/26/23	
Gasoline Range Organics (C6-C10)	ND	20.0				49 5		1 1 1	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.54		8.00	7 2	94.3	70-130			
LCS (2338111-BS2)							Prepared: 0	9/22/23 Anal	yzed: 09/26/23
Gasoline Range Organics (C6-C10)	43.5	20.0	50.0		86.9	70-130	•	1 1 1	210
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.50		8.00		93.8	70-130			
Matrix Spike (2338111-MS2)				Source:	E309162-2	22	Prepared: 0	9/22/23 Anal	yzed: 09/26/23
Gasoline Range Organics (C6-C10)	44.7	20.0	50.0	ND	89.3	70-130		1.	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.64	10	8.00		95.6	70-130			
Matrix Spike Dup (2338111-MSD2)				Source:	E309162-2	22	Prepared: 0	9/22/23 Anal	zed: 09/26/23
Gasoline Range Organics (C6-C10)	44.3	20.0	50.0	ND	88.6	70-130	0.844	20	

70-130

QC Summary Data

			111 2 2 2 2 2	
Dugan Production Corp.	Project Name:	BGT Closure	F F: 9 10 F	Reported:
PO Box 420	Project Number:	06094-0177		Neporteu.
Farmington NM, 87499	Project Manager:	Kevin Smaka		9/26/2023 2:20:54PM

Farmington NM, 8/499		Project Manage	r: Kev	in Smaka				9/2	26/2023 2:20:54PN
	Nonha	logenated Or	ganics by E	PA 80151	D - DRO	/ORO	•		Analyst: JL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2338102-BLK1)							Prepared: 0	9/22/23 Anal	yzed: 09/22/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	50.0		50.0		100	50-200			
LCS (2338102-BS1)							Prepared: 09	9/22/23 Anal	yzed: 09/23/23
Diesel Range Organics (C10-C28)	255	25.0	250		102	38-132			
Surrogate: n-Nonane	52.6		50.0		105	50-200	·····		
Matrix Spike (2338102-MS1)				Source:	E309162-2	25	Prepared: 09	9/22/23 Anal	yzed: 09/23/23
Diesel Range Organics (C10-C28)	254	25.0	250	ND	102	38-132	7 1 1		
Surrogate: n-Nonane	52.6		50.0		105	50-200			
Matrix Spike Dup (2338102-MSD1)				Source:	E309162-2	25	Prepared: 09	9/22/23 Anal	yzed: 09/23/23
Diesel Range Organics (C10-C28)	251	25.0	250	ND	100	38-132	1.46	20	
Surrogate: n-Nonane	53.8		50.0		108	50-200			

QC Summary Data

	101 0 0 01		
Dugan Production Corp.	Project Name:	BGT Closure	 Reported:
PO Box 420	Project Number:	06094-0177	Reporteu.
Farmington NM, 87499	Project Manager:	Kevin Smaka	9/26/2023 2:20:54PM

	1.7	3								
Anions by EPA 300.0/9056A								Analyst: BA		
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec	Rec Limits	RPD %	RPD Limit %	Notes	
Blank (2339003-BLK1)						4	Prepared: 0	9/25/23 Anal	lyzed: 09/25/23	
Chloride	ND	20.0		***************************************			1 1	1 1 1 1 1	-	
LCS (2339003-BS1)							Prepared: 0	9/25/23 Anal	lyzed: 09/25/23	
Chloride	249	20.0	250		99.5	90-110				
Matrix Spike (2339003-MS1)				Source:	E309118-0)1	Prepared: 0	9/25/23 Anal	lyzed: 09/25/23	
Chloride	403	20.0	250	160	97.2	80-120		1		
Matrix Spike Dup (2339003-MSD1)				Source:	E309118-0)1	Prepared: 0	9/25/23 Anal	lyzed: 09/25/23	
Chloride	427	20.0	250	160	107	80-120	5.91	20		

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

I	Dugan Production Corp.	Project Name:	BGT Closure	
١	PO Box 420	Project Number:	06094-0177	Reported:
١	Farmington NM, 87499	Project Manager:	Kevin Smaka	09/26/23 14:20

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



to

Chain of Custody

Project Information

envirotech

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Printed: 9/21/2023 3:08:54PM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

	Dugan Production Corp.	Date Received:	09/21/23		Work Order ID:	E309158
Phone:	505-486-6207	Date Logged In:	09/21/23	3 15:07	Logged In By:	Caitlin Mars
	kevin.smaka@duganproduction.com	Due Date:		3 17:00 (5 day TAT)	Logged III Dy.	Carrin Iviais
Chain of C	ustody (COC)					
7 7 7 7	sample ID match the COC?		Yes			
	number of samples per sampling site location ma	atch the COC	Yes			
3. Were sam	aples dropped off by client or carrier?		Yes	Carrier: Kevin Smaka		
	COC complete, i.e., signatures, dates/times, reque	ested analyses?	Yes	Carrier. Revin Sinaka		
5. Were all s	samples received within holding time? Note: Analysis, such as pH which should be conducted in	in the field,	Yes		Commen	ts/Resolution
Sample Tu	i.e, 15 minute hold time, are not included in this disucss rn Around Time (TAT)	ion.	**		Commen	SACSORATION
	COC indicate standard TAT, or Expedited TAT?		Yes			
Sample Co			**			
	mple cooler received?		Yes			
	as cooler received in good condition?		Yes			
	sample(s) received intact, i.e., not broken?		Yes			
	stody/security seals present?		No			
11. If yes, w	vere custody/security seals intact?		NA			
1	sample received on ice? If yes, the recorded temp is 4°C Note: Thermal preservation is not required, if samples a minutes of sampling		Yes			
	sible ice, record the temperature. Actual sample	e temperature: 4°0	2			
Sample Con			_			
	eous VOC samples present?		No	-		
	C samples collected in VOA Vials?		NA			
	ead space less than 6-8 mm (pea sized or less)?		NA			
	rip blank (TB) included for VOC analyses?		NA			
	-VOC samples collected in the correct containers	,9	Yes			
	propriate volume/weight or number of sample contain		Yes			
Field Label		mers conceted:	168	-		
	Leld sample labels filled out with the minimum inf	armation				
	apple ID?	Offilation.	Yes			
	e/Time Collected?		Yes	10.0		
Coll	lectors name?		Yes			
Sample Pre	eservation					
21. Does the	c COC or field labels indicate the samples were p	reserved?	No			
22. Are sam	aple(s) correctly preserved?		NA			
24. Is lab fil	teration required and/or requested for dissolved r	netals?	No			
Multiphase	Sample Matrix					
	e sample have more than one phase, i.e., multipha	ise?	No			
	oes the COC specify which phase(s) is to be anal		NA			
		,	INA			
	t Laboratory	9	3.7			
	ples required to get sent to a subcontract laborate	•	No			
29. Was a si	abcontract laboratory specified by the client and i	i so who?	NA	Subcontract Lab: NA		
Client Inst	ruction					
		+ +			22 3 2 2 2 2	
1						
,				1111	2 22 2	
Signatura	e of client authorizing changes to the COC or sample dis	enosition		Data		envirotech I
Signature	to them additioning changes to the COC or sample dis	sposition.		Date		envirotech I

Pinon #1E (Production Tank) Hydrogeologic Report

The Pinon #1E (Production Tank) is located on Federal land on "Pinon Mesa" on the northwest margin of the San Juan Basin, in San Juan County, New Mexico. The mesa trends 3-miles east-west by 2-miles north-south. The top of the mesa is relatively flat except for areas where arroyos have incised the mesa top. The mesa is capped with the resistant Ojo Alamo and Animas Formation sandstone layers which rest unconformable on the underlying Kirtland Shale. Relief around the edges of the mesa ranges from 300 – 400 feet, most of which is vertical.

A records search of the NM Office of the State Engineer –iWATERS database was conducted on a three square mile area centered on the Pinon #1E (Production Tank) location (Exhibit 2). No water wells were located in the area. The results of the search are shown on Exhibit 1. The main source of stock water in the region is encountered in valley-fill deposits in existing arroyos at shallow depths of approximately 15 – 50 feet below the surface. The proposed temporary pit is not located in an arroyo, the closest arroyo is over 600 feet away.

The Ojo Alamo Sandstone / Animas Formation (McDermott Member) interval extends from the surface down to a depth of approximately 180 feet and is comprised of a coarse grained alluvial sandstone interbedded with lenses of mudstone and occasional conglomeratic sandstone. The Ojo Alamo / Animas Formation may yield marginal quantities of water for livestock in other areas, however, the water quality is typically greater than 1,000 ppm total dissolved solids and high in sulfate.

The Ojo Alamo / Animas Formation interval is not a potential source of ground water in the area of the subject pit. The nearby arroyos to the south and east have breached the interval from the surface down to a depth of approximately 200 feet. Also, the interval is exposed around the rim of the mesa and sits on top of 100 - 200 feet of exposed Kirtland Shale.

The underlying Kirtland Shale ranges from a depth of approximately 180 down to a depth of approximately 1300 feet and is comprised of an upper shale member, middle sandstone member (Farmington Ss.) and a lower shale member. The middle sandstone interval is poorly developed between 450 - 550 feet and 650 - 800 feet below surface in the area of the subject pit.

Based on electric open hole logs, the iWATERS database, literature reviewed, depth to ground water ranges from 15 – 20 feet below the surface in major arroyos in the area. Moving away from the washes, ground water depth drops rapidly to greater than 220 feet below the surface. At the location of the subject pit, lesser amounts of poor quality ground water might be found at depths of approximately 450 - 550 feet and 650 – 800 feet below the surface in the laterally discontinuous sand intervals of the Kirtland Shale. Another source of poor quality ground water would be the Fruitland Coal and Pictured Cliffs Sandstone interval at a depth of approximately 1550 - 1700 feet below surface. The excessive drilling depth to reservoirs with unpredictable variations in reservoir quality and water quality has discouraged the drilling of water wells in the area.

- Stone, W.J., Lyford, F.P., Frenzel, P.F., Mizell, N.H., and Padgett, E.T., 1983, Hydrogeology and water resources of San Juan Basin, New Mexico: New Mexico Bureau of Mines and Mineral Resources Hydrologic Report 6, 70 p.
- Brown, D.R., and Stone, W.J., 1979, Hydrogeology of Aztec quadrangle, San Juan County, New Mexico: New Mexico Bureau of Mines and Mineral Resources Hydrogeologic Sheet 1.
- Levings, G.W., Craigg, S.D., Dam, W.L. Kernodle, J.M., and Thorn, C.R., 1990, Hydrogeology of the San Jose, Nacimiento, and Animas Formations in the San Juan Structural Basin, New Mexico, Colorado, Arizona and Utah: U.S. Geological Survey, Atlas HA-720-A, Sheet 1 and 2.
- Thorn, C.R., Levings, G.W., Craigg, S.D., Dam, W.L., and Kernodle, J.M., 1990, Hydrogeology of the Ojo Alamo Sandstone in the San Juan Structural Basin, New Mexico, Colorado, Arizona and Utah: U.S.G.S, Atlas HA-720-B, Sheet 1 and 2.

Pinon #1 Hydrogeologic Report

The Pinon #1 is located on Federal land on "Pinon Mesa" along the northwest margin of the San Juan Basin in San Juan County, New Mexico. The mesa trends 3-miles east-west by 2-miles north-south. The top of the mesa is relatively flat except for areas where arroyos have incised the mesa top. The mesa is capped with the resistant Ojo Alamo / Animas sandstone layers which rest unconformable on the underlying Kirtland Shale. Relief around the edges of the mesa ranges from 300 – 400 feet, most of which is vertical.

A records search of the NM Office of the State Engineer –iWATERS database was conducted on a three square mile area centered on the Pinon #1 location (Exhibit 2). No water wells were located in the area. The results of the search are shown on Exhibit 1.

The only source of stock water on the mesa is from a steel tank designed to catch water from rain and snow melt. In the areas below Pinon Mesa, stock water is encountered in valley-fill deposits in existing arroyos at shallow depths of approximately 15-50 feet below the surface. The proposed below grade tank is not located in an arroyo, however, there is one minor arroyo located 30-50 feet south and east.

Arroyos on top of Pinon Mesa are not considered to be potential sources of ground water. The mesa receives very little rainfall and minimal snow pack in the winter. There are no ponds or springs and the arroyos do not have trapping mechanisms which would confine ground water. They sit directly on top of the Ojo Alamo / Animas sandstone interval. Any water from snow melt quickly percolates into the underlying strata. Intense rain fall quickly runs off the mesa top and gentle rainfall percolates into the underlying strata. The underlying stratum is breached by deep cutting arroyos and is exposed in the rim of the mesa 100-200 feet above the surrounding valley.

The Ojo Alamo / Animas sandstone interval extends from the surface down to a depth of approximately 150 feet and is comprised of a coarse grained alluvial sandstone inter-bedded with lenses of mudstone and occasional conglomeratic sandstone. The Ojo Alamo / Animas may yield marginal quantities of water for livestock in other areas; however, the water quality is typically greater than 1,000 ppm total dissolved solids and high in sulfate.

The arroyos and Ojo Alamo / Animas strata on Pinon Mesa are not considered potential sources of ground water in the area of the subject below grade tank. Nearby arroyos to the south and east, have breached the mesa from the surface down to a depth of approximately 200 feet. Also, the stratum is exposed around the rim of the mesa and sits on top of 200 – 300 feet of Kirtland Shale and the valley below.

The underlying Kirtland Shale ranges from a depth of approximately 150 down to a depth of approximately 1285 feet and is comprised of an upper shale member, middle sandstone member (Farmington Ss.) and a lower shale member. The middle sandstone interval is poorly developed between 600 - 900 feet below surface in the area of the subject pit.

Based on electric open hole logs, the iWATERS database, literature reviewed, depth to ground water at the location of the subject pit might be found at depths of 635 - 900 feet below the surface in the laterally discontinuous sand intervals of the Kirtland Shale. Another source of poor quality ground water would be the Fruitland Coal and Pictured Cliffs Sandstone interval at a depth of 1600 - 1650 feet below surface.

The excessive drilling depth to reservoirs with unpredictable variations in reservoir quality and water quality has discouraged the drilling of water wells in the area.

- Stone, W.J., Lyford, F.P., Frenzel, P.F., Mizell, N.H., and Padgett, E.T., 1983, Hydrogeology and water resources of San Juan Basin, New Mexico: New Mexico Bureau of Mines and Mineral Resources Hydrologic Report 6, 70 p.
- Brown, D.R., and Stone, W.J., 1979, Hydrogeology of Aztec quadrangle, San Juan County, New Mexico: New Mexico Bureau of Mines and Mineral Resources Hydrogeologic Sheet 1.
- Levings, G.W., Craigg, S.D., Dam, W.L. Kernodle, J.M., and Thorn, C.R., 1990, Hydrogeology of the San Jose, Nacimiento, and Animas Formations in the San Juan Structural Basin, New Mexico, Colorado, Arizona and Utah: U.S. Geological Survey, Atlas HA-720-A, Sheet 1 and 2.
- Thorn, C.R., Levings, G.W., Craigg, S.D., Dam, W.L., and Kernodle, J.M., 1990, Hydrogeology of the Ojo Alamo Sandstone in the San Juan Structural Basin, New Mexico, Colorado, Arizona and Utah: U.S.G.S, Atlas HA-720-B, Sheet 1 and 2.

Molly Pitcher SWD #4 Hydrogeologic Report

The Molly Pitcher SWD #4 is located on Federal land on "Pinon Mesa" on the northwest margin of the San Juan Basin, in San Juan County, New Mexico. The mesa trends 3-miles east-west by 2-miles north-south. The top of the mesa is relatively flat except for areas where arroyos have incised the mesa top. The mesa is capped with the resistant Ojo Alamo and Animas Formation sandstone layers which rest unconformable on the underlying Kirtland Shale. Relief around the edges of the mesa ranges from 300 – 400 feet, most of which is vertical.

A records search of the NM Office of the State Engineer –iWATERS database was conducted on a three square mile area centered on the Molly Pitcher SWD #4 location (Exhibit 2). No water wells were located in the area. The results of the search are shown on Exhibit 1. The main source of stock water in the region is encountered in valley-fill deposits in existing arroyos at shallow depths of approximately 15 – 50 feet below the surface. The proposed temporary pit is not located in an arroyo; the closest arroyo is over 1000 feet away.

The Ojo Alamo Sandstone / Animas Formation (McDermott Member) interval extends from the surface down to a depth of approximately 200 feet and is comprised of coarse grained alluvial sandstones inter-bedded with lenses of mudstone and occasional conglomeratic sandstone. The Ojo Alamo / Amimas Formation interval may yield marginal quantities of water for livestock in other areas; however, the water quality is typically greater than 1,000 ppm total dissolved solids and high in sulfate.

The Ojo Alamo / Amimas Formation interval is not a potential source of ground water in the area of the subject pit. The nearby arroyos to the south and east have breached the interval from the surface down to a depth of approximately 200 feet. Also, the interval is exposed around the rim of the mesa and sits on top of 100 - 200 feet of exposed Kirtland Shale.

The underlying Kirtland Shale ranges from a depth of approximately 200 down to a depth of approximately 1350 feet and is comprised of an upper shale member, middle sandstone member (Farmington Ss.) and a lower shale member. The middle sandstone interval is poorly developed between 400 - 500 feet and 650 - 800 feet below the surface in the area of the subject pit.

Based on electric open hole logs, the iWATERS database, literature reviewed, depth to ground water ranges from 15-20 feet below the surface in major arroyos in the area. Moving away from the arroyos, ground water depth drops rapidly to greater than 220 feet below the surface. At the location of the subject pit, lesser amounts of poor quality ground water might be found at depths of approximately 400-500 feet and 650-800 feet below the surface in the laterally discontinuous sand intervals of the Kirtland Shale. Another source of poor quality ground water would be the Fruitland Coal and Pictured Cliffs Sandstone interval at a depth of approximately 1650-1700 feet below surface. The excessive drilling depth to reservoirs with unpredictable variations in reservoir quality and water quality has discouraged the drilling of water wells in the area.

- Stone, W.J., Lyford, F.P., Frenzel, P.F., Mizell, N.H., and Padgett, E.T., 1983, Hydrogeology and water resources of San Juan Basin, New Mexico: New Mexico Bureau of Mines and Mineral Resources Hydrologic Report 6, 70 p.
- Brown, D.R., and Stone, W.J., 1979, Hydrogeology of Aztec quadrangle, San Juan County, New Mexico: New Mexico Bureau of Mines and Mineral Resources Hydrogeologic Sheet 1.
- Levings, G.W., Craigg, S.D., Dam, W.L. Kernodle, J.M., and Thorn, C.R., 1990, Hydrogeology of the San Jose, Nacimiento, and Animas Formations in the San Juan Structural Basin, New Mexico, Colorado, Arizona and Utah: U.S. Geological Survey, Atlas HA-720-A, Sheet 1 and 2.
- Thorn, C.R., Levings, G.W., Craigg, S.D., Dam, W.L., and Kernodle, J.M., 1990, Hydrogeology of the Ojo Alamo Sandstone in the San Juan Structural Basin, New Mexico, Colorado, Arizona and Utah: U.S.G.S, Atlas HA-720-B, Sheet 1 and 2.



Kevin Smaka

From:

Kevin Smaka

Sent:

Tuesday, September 19, 2023 3:19 PM

To:

'Barr, Leigh, EMNRD'; 'Adeloye, Abiodun A'

Cc:

Tyra Feil; Carlos Ramos; Dalvin Harrison

Subject:

RE: BGT Closure Sampling

For all people concerned, we will start at the Monte Carlo #1 and move to the Carpenter.

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

From: Kevin Smaka

Sent: Friday, September 15, 2023 2:08 PM

To: 'Barr, Leigh, EMNRD' <leighp.barr@emnrd.nm. gov>; 'Adeloye, Abiodun A' <aadeloye@blm.gov>

Cc: Tyra Feil <Tyra.Feil@duganproduction.com>; Carlos Ramos <Carlos.Ramos@duganproduction.com>; Dalvin Harrison

<Dalvin.Harrison@duganproduction.com>

Subject: BGT Closure Sampling

Dugan will be closing 2 BGTs and collecting soil samples this coming Wednesday, 9/20/23 @ 10:00 AM. We will be collecting samples from Dugan's Monte Carlo #1 wellsite and Dugan's Carpenter #1E well site.

Here are the sites information:

Monte Carlo #1 30-045-25866 K-07-30N-14W 1450 FSL 1450 FWL

Carpenter Com #1E 30-045-23613 F-25-30N-14W 1850 FNL 1480 FWL

The Monte Carlo #1 is a fee lease and a certified letter has been mailed to the land owner of our planned closure. A copy of that notice will be included in the closure report when the C-144 is filed.

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

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 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**

CONDITIONS

Action 289614

CONDITIONS

Operator:	OGRID:
DUGAN PRODUCTION CORP	6515
PO Box 420	Action Number:
Farmington, NM 87499	289614
	Action Type:
	[C-144] Below Grade Tank Plan (C-144B)

CONDITIONS

Created By	Condition	Condition Date
vvenegas	19.15.17.13.H. The re-vegetation and reclamation obligations imposed by other applicable federal or tribal agencies on lands managed by those agencies shall supersede these provisions and govern the obligations of any operator subject to those provisions, provided that the other requirements provide equal or better protection of fresh water, human health and the environment. (e) The operator shall notify the division when reclamation and re-vegetation are complete.	12/1/2023