Responsible Party Dugan Production Corp.

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

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	NAPP2118234253
District RP	
Facility ID	
Application ID	

## **Release Notification**

#### **Responsible Party**

OGRID 006515

Contact Name Kevin Smaka		Contact T	elephone 505-325-1821 x1049	
Contact email Kevin.Smaka@duganproduction.com		Incident #	f (assigned by OCD) NAPP2118234253	
Contact mailing address	PO Box 420, Farr	mington, NM 874	.99	
Latitude _36.3697205			of Release S  Longitude  cimal degrees to 5 decim	-107.6721954
Site Name Anabel B #			Site Type	Oil Well
Date Release Discovered	6/29/21		API# (if app	plicable) 30-045-26527
Unit Letter Section K 27  Surface Owner: □ State	Township 25N	Range 8W	Cour San J	
Materi	al(s) Released (Select al	Nature and	l Volume of 1	justification for the volumes provided below)
☐ Crude Oil Volume Released (bbls) 20			Volume Recovered (bbls) 15	
☐ Produced Water	Volume Release			Volume Recovered (bbls)
Is the concentration of dissolved chloride in produced water > 10,000 mg/l?		hloride in the	☐ Yes ☐ No	
Condensate				Volume Recovered (bbls)
☐ Natural Gas Volume Released (Mcf)			Volume Recovered (Mcf)	
Other (describe)	scribe) Volume/Weight Released (provide units)		Volume/Weight Recovered (provide units)	
Cause of Release				
Corrosion of tank botton	1			

Form C-141 Page 2

# State of New Mexico Oil Conservation Division

Incident ID	NAPP2118234253
District RP	
Facility ID	
Application ID	

		1.1001111111111111111111111111111111111
Was this a major release as defined by 19.15.29.7(A) NMAC?  ☐ Yes ☑ No	If YES, for what reason(s) does the respo	nsible party consider this a major release?
If YES, was immediate n	otice given to the OCD? By whom? To w	hom? When and by what means (phone, email, etc)?
	Initial R	esponse
The responsible	party must undertake the following actions immediate	ly unless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.	
The impacted area ha	is been secured to protect human health and	the environment.
Released materials ha	ave been contained via the use of berms or	likes, absorbent pads, or other containment devices.
	ecoverable materials have been removed an	
	d above have not been undertaken, explain	
has begun, please attach	a narrative of actions to date. If remedial	emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred blease attach all information needed for closure evaluation.
regulations all operators are public health or the environ failed to adequately investig	required to report and/or file certain release notinent. The acceptance of a C-141 report by the Cate and remediate contamination that pose a three	best of my knowledge and understand that pursuant to OCD rules and fications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws
Printed Name: Kevin Sn	naka	Title: Engineer
Signature:	5 Smelin	Date: June 30, 2021
email: <u>Kevin.Smaka@d</u>	uganproduction.com	Telephone: _505-325-1821 x1049
OCD Only		
Received by: Ramona	Marcus	Date:11/1/2021

Received by OCD: 10/27/2021 10:11:50 AM

Page 3 of 127

Form C-1 41 Page 3

# State of New Mexico Oil Conservation Division

Incident ID	NAPP2118234253
District RP	17711 211023 1233
Facility ID	
Application ID	

#### Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	_700 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	☐ Yes ⊠ No

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

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

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

Form C-1 41 Page 4

# State of New Mexico Oil Conservation Division

Incident ID	NAPP2118234253
District RP	
Facility ID	
Application ID	

I hereby cenify that the information given above is true and complete to the best of my knowledg regulation and operators are required to report and/or file certain release notifications and perform public health or the environment. The acceptance of a C-141 report by the OCD does not relieve failed to adequately investigate and remediate contamination that pose a threat to groundwater, su addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for contamination makes.  Printed Name:  Signature:  Kevin Smaka Qdaan productions:  Date:  O-21  email:  Kevin Smaka Qdaan productions:	corrective actions for releases which may endanger the operator of liability should their operations have rface water, human health or the environment. In appliance with any other federal, state, or local laws
OCD Only	
Received by: Ramona Marcus Date: 11	<u></u>

Form C-141 Page 5

# State of New Mexico Oil Conservation Division

Incident ID	NAPP2118234253
District RP	
Facility ID	
Application ID	

# **Remediation Plan**

Remediation Plan Checklist: Each of the following items must be included in the plan.
Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Stated volume of material to be remediated
Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
Estimated volume of material to be remediated  Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC  Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)
Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
Extents of contamination must be fully delineated.
Contamination does not cause an imminent risk to human health, the environment, or groundwater.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.  Printed Name:
Received by: Ramona Marcus Date: 11/01/2021
Approved Approved with Attached Conditions of Approval Denied Deferral Approved
Signature: Date:

Page 6 of 127

Form C-141 Page 6

# State of New Mexico Oil Conservation Division

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

Incident ID	
District RP	
Facility ID	
Application ID	

## Closure

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

☐ A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of	nediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for tions. The responsible party acknowledges they must substantially inditions that existed prior to the release or their final land use in
Printed Name:	Title:
Signature:	Date:
email:	Telephone:
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and vater, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by:	Date:
Printed Name:	Title:

OReleas 240 Im 59 Png: 1/7/2022 2:99:01 PM

# National Flood Hazard Layer FIRMette





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

Without Base Flood Elevation (BFE) With BFE or Depth Zone AE, AO, AH, VE, AR SPECIAL FLOOD HAZARD AREAS Regulatory Floodway 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X **Future Conditions 1% Annual** Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes. Zone X OTHER AREAS OF Area with Flood Risk due to Levee Zone D FLOOD HAZARD NO SCREEN Area of Minimal Flood Hazard Zone X Effective LOMRs OTHER AREAS Area of Undetermined Flood Hazard Zone D - - - Channel, Culvert, or Storm Sewer **GENERAL** STRUCTURES | LILLI Levee, Dike, or Floodwall 20.2 Cross Sections with 1% Annual Chance 17.5 Water Surface Elevation **Coastal Transect** www 513 www Base Flood Elevation Line (BFE) Limit of Study Jurisdiction Boundary — --- Coastal Transect Baseline OTHER **Profile Baseline FEATURES** Hydrographic Feature Digital Data Available No Digital Data Available MAP PANELS Unmapped The pin displayed on the map is an approximate

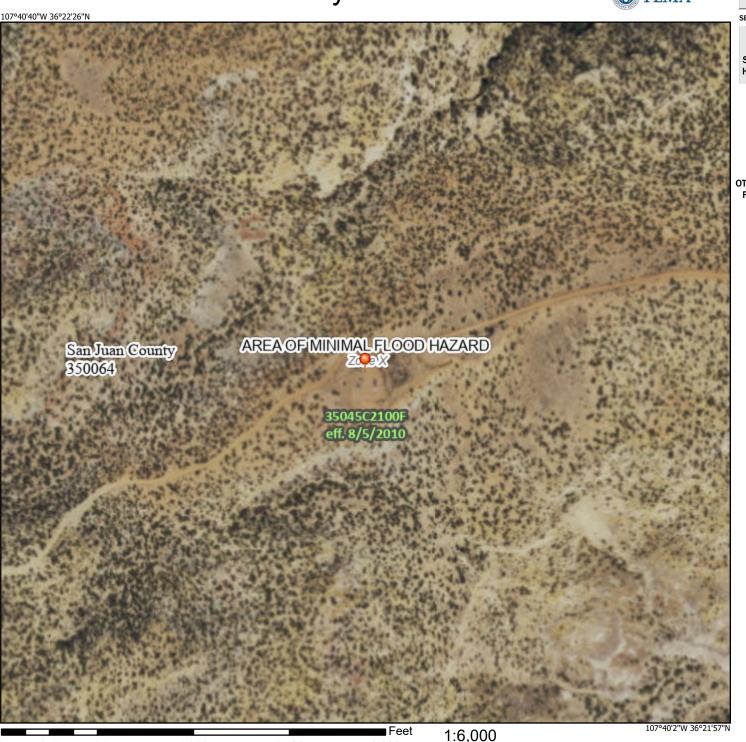
This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

point selected by the user and does not represent

an authoritative property location.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 10/13/2021 at 4:34 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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





#### Spill Characterization Report

Dugan Production Corp.

Anabel B #1
API# 30-045-26527
K-27-25N-08W
1860 FSL 1680 FWL

A tank at Dugan Production Corp. Anabel B #1 well site, on 6/29/21, lost integrity due to corrosion and as a result spilled oil inside the berm of the tank. All fluids were contained within the tank berm area. Dugan crews began work to remediate the spill on 6/30/21. Soil samples of the initial excavated soil was collected, sent to Envirotech for analysis. Those initial results may be found at the end of this report as item #1. Initial sampling results indicated high TPH and clear signs of needing to expand the excavation to delineate and remediate the spill.

Dugan crews began work to further excavate and delineate the spill. Dugan personnel dug down until soils began to appear free of staining and hydrocarbon odors. Clean dirt was found at an average depth of 10 feet. At this point the crew began working to delineate the lateral extents of the spill. Crews excavated soils until they excavated a hole with dimensions of 32' x 30' x 10'.

The excavation appeared to be successful due to the fact soils removed from the hole were odorless and free of staining. Confirmation sampling was scheduled to confirm remediation was successful. The results indicated that all the side walls were free of any contaminants. The results from the bottom of the excavation were significantly better than the initial samples. One of the samples had DRO values higher than permitted in table 1 of the spill rule. As such Dugan will be submitting a remediation plan to address and remediate the spill at this tank battery.

#### **Field Data**

- 6-29-21 Spill was discovered by Dugan personnel. Oil spill is contained within berm. Water truck was called to recover standing oil inside of berm. In order to protect the public and wildlife a fence was constructed around the spill site.
- 6-30-21 Dugan crews began efforts to delineate the spill. Contaminated soil was excavated and stockpiled within a berm to prevent liquids from spreading and contaminating other soils. Soils appear brown and grey and contain strong hydrocarbon odors. Current hole size is  $5' \times 5' \times 5'$ .
- 7-15-21 Dugan crews continued remedial efforts. Crew foreman noted strong odors and visual evidence of hydrocarbons appeared to be dissipating. Samples we collected to verify that spill had been delineated. Sample results indicated high levels of hydrocarbons were present in the bottom of the pit. Crew continuing to excavate deeper and further out until sample results indicate the spill is delineated.

- 8-2-21 Heavy rains have made accessing the location dangerous to Dugan personnel. Pandemic issues with the labor force have impacted Dugan's ability to hire a contract blade service to repair the roads so heavy equipment may be safely transported to the location.
- 8-27-21 Roads have been repaired. Dugan crews continued delineation efforts. Hole is now approximately 25' x 25' x 10'. Signs of staining on the sidewalls and bottom of the hole are gone. Soils are free of hydrocarbon odors. Samples were collected to confirm the spill has been adequately delineated. Sample results indicated conditions are improving but values for hydrocarbons are still too high to consider this for closure or delineation purposes.
- 10-4-21 Field crews have expanded the hole to be a size of nearly 32'x 30' x 10'. All walls and base appear to be free of hydrocarbon staining. Soils are mostly free of hydrocarbon odors. Some handfuls of dirt had faint trace odors of hydrocarbons. Samples were collected to verify delineation efforts were successful. Results indicated one area in the base still tested too high for DRO limits. A site characterization and spill remediation C-141 will be prepared and submitted to OCD to complete further remedial actions.

## **Excavation Log/Notes**

Pit dimensions (feet by feet)	Pit depth (feet)	Soil Conditions
5 x 5	5	Soils are heavily stained and have strong odors
5 x 10	10	Soils at 10 feet appear clean. Walls are visibly stained and have strong odors Side walls are still stained.
10 x 10	10	Base clears up at a depth of 10 feet
15 x 10	10	Side walls are heavily stained and have strong odors
15 x 15	10	Soils are heavily stained and have strong odors
20 x 15	10	Soils are heavily stained and have strong odors
20 x 20	10	Soils are heavily stained and have strong odors
25x 20	10	Soils are heavily stained and have strong odors
25 x 25	10	Soils are heavily stained and have strong odors
30 x 25	10	Side walls are starting to clear up. Spotting is still present but improving. The base is still in good condition.
30 x 30	10	Side walls are in very good condition. One wall still exhibits staining and must have a little more dirt removed to delineate spill.
32 x 30	10	Walls and base are free of staining and odors. Any discoloration can be attributed to soil type as they are free of odors. Sampling will be conducted to verify delineation efforts.



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

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a (R=POD has been replaced, O=orphaned,

& no longer serves a C=the file is water right file.) Closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

 POD

 Sub Q Q Q
 Depth Depth Water

 POD Number
 Code basin County 64 16 4 Sec Tws Rng
 X
 Y
 Well Water Column

 SJ 03275
 SJ SJ 4 2 2 25 25N 08W
 264502 4028868\*
 57 18 39

Average Depth to Water: 18 feet

Minimum Depth: 18 feet

(In feet)

Maximum Depth: 18 feet

**Record Count: 1** 

**Basin/County Search:** 

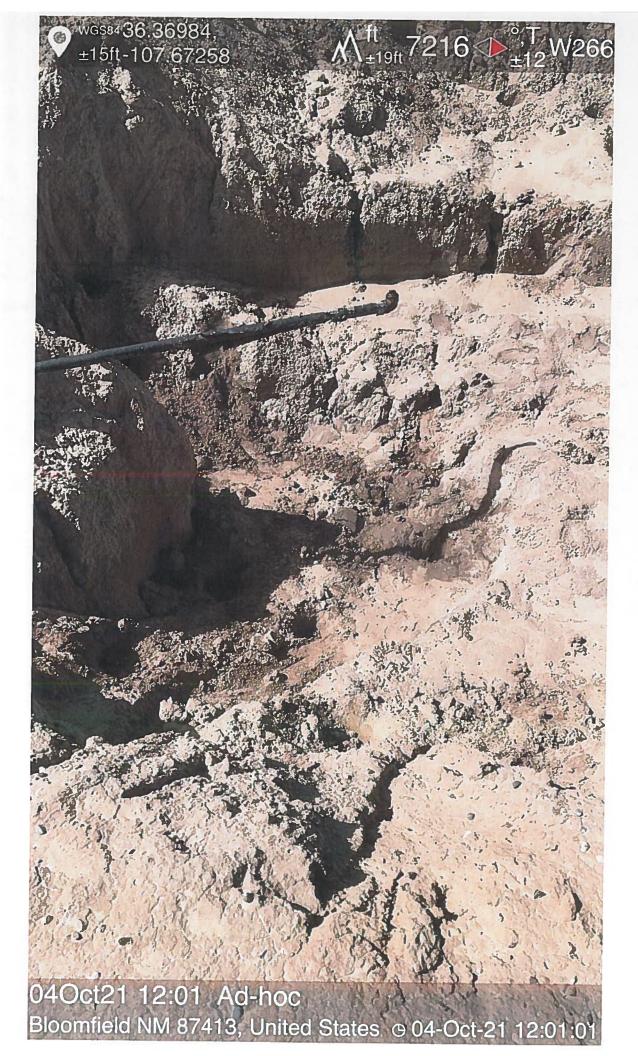
Basin: San Juan County: San Juan

**PLSS Search:** 

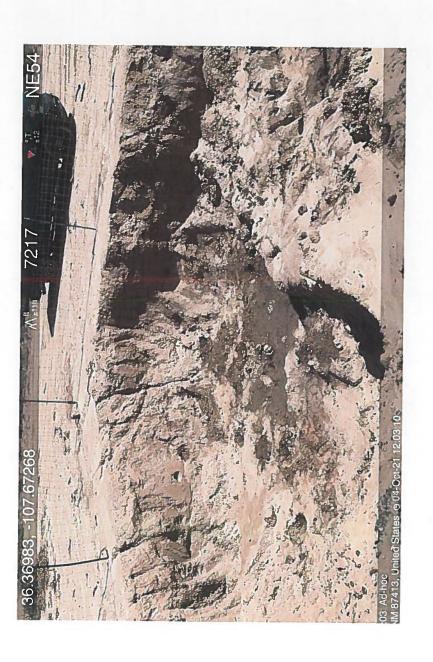
Section(s): 21-35 Township: 25N Range: 08W

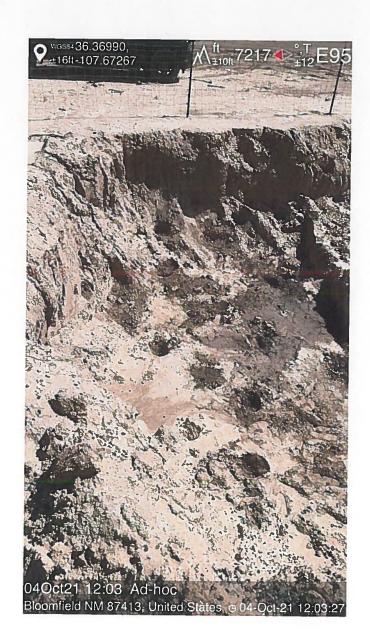
\*UTM location was derived from PLSS - see Help

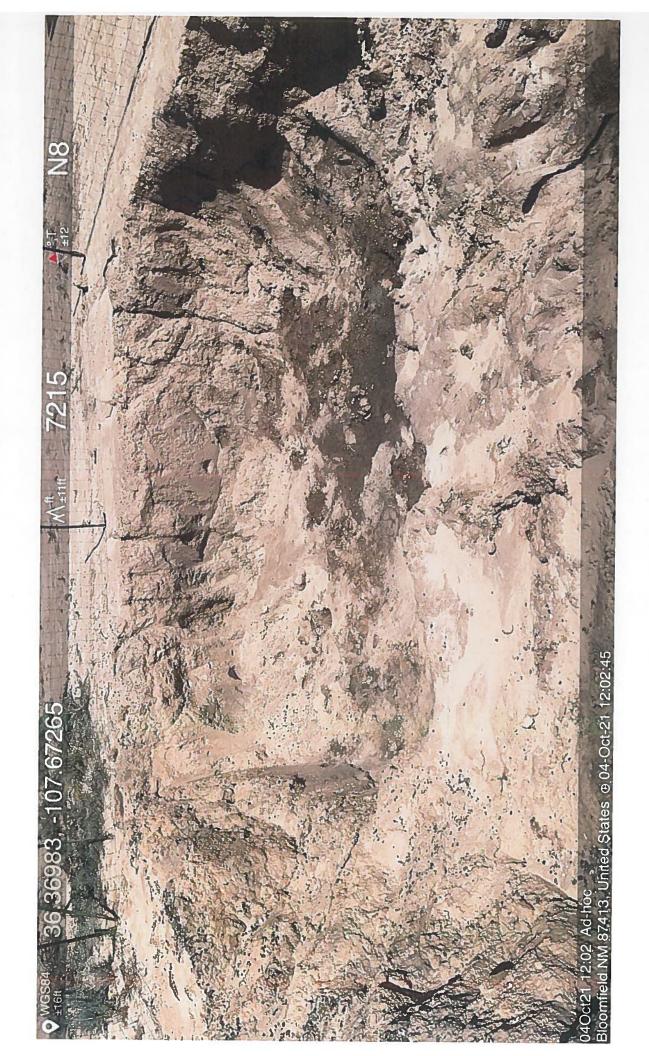
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

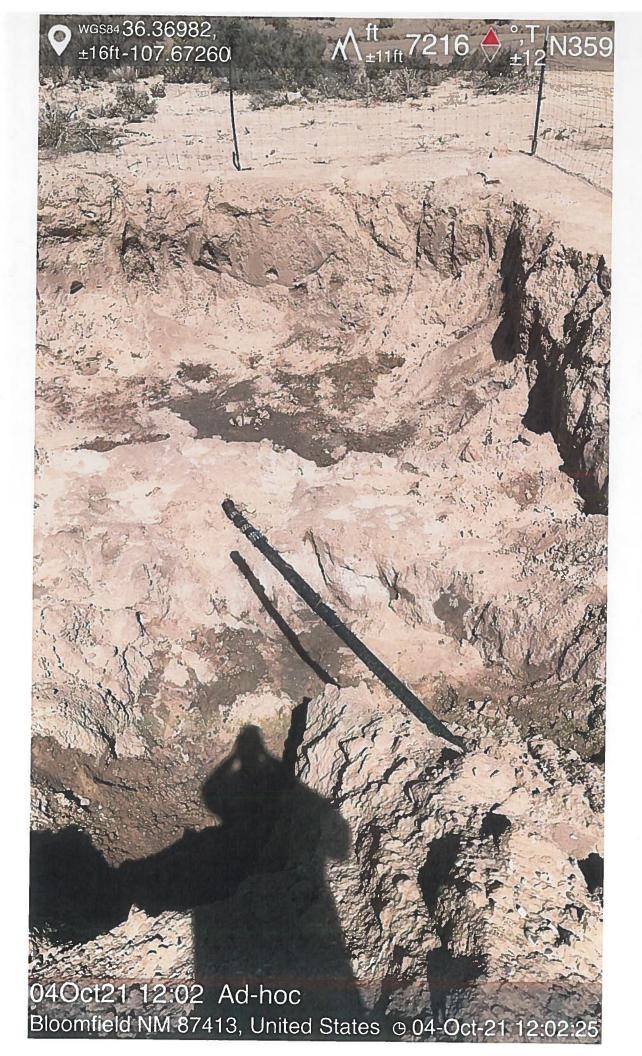


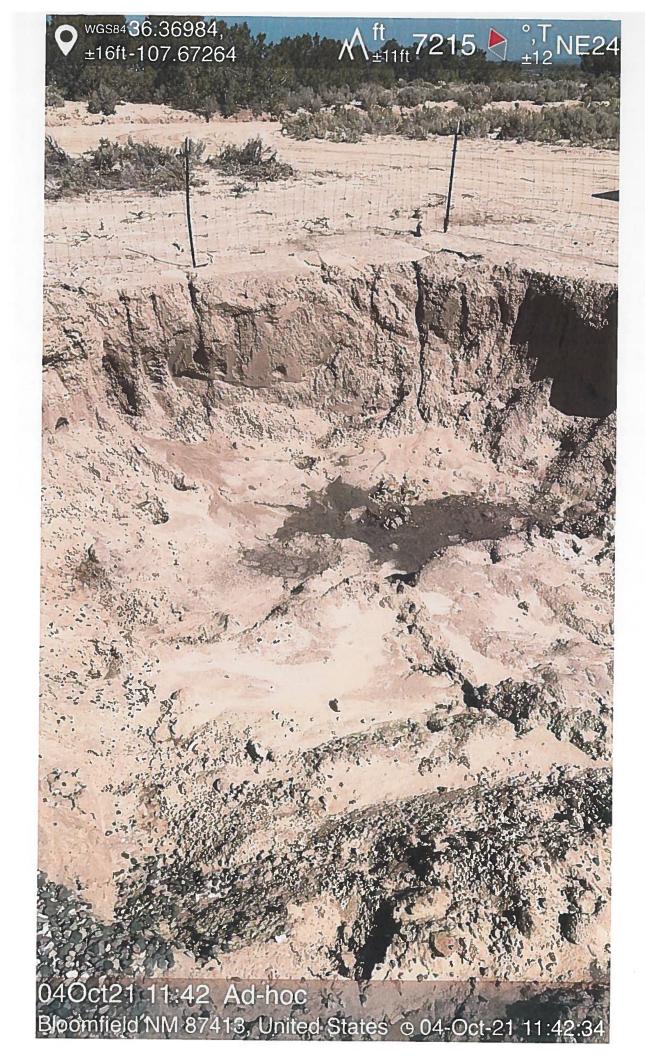
Received by OCD: 10/27/2021 10:11:50 AM

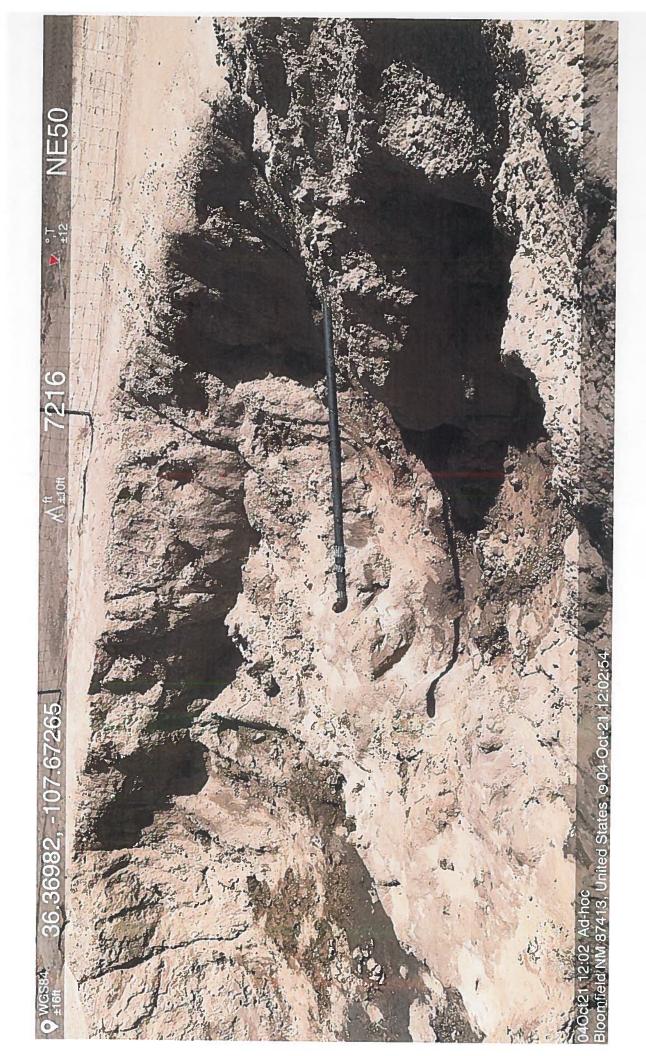


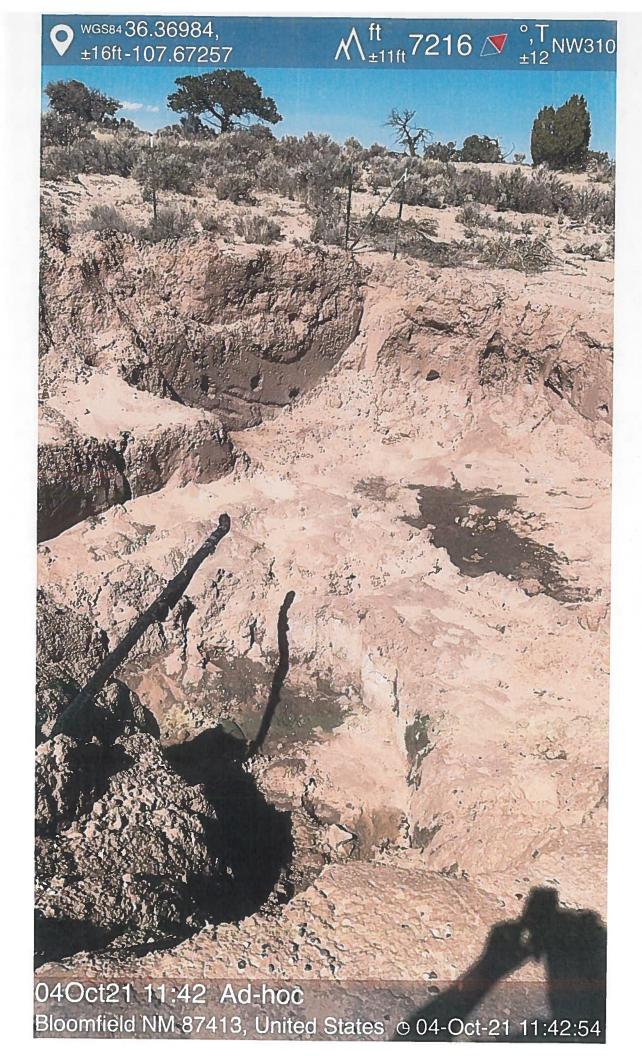


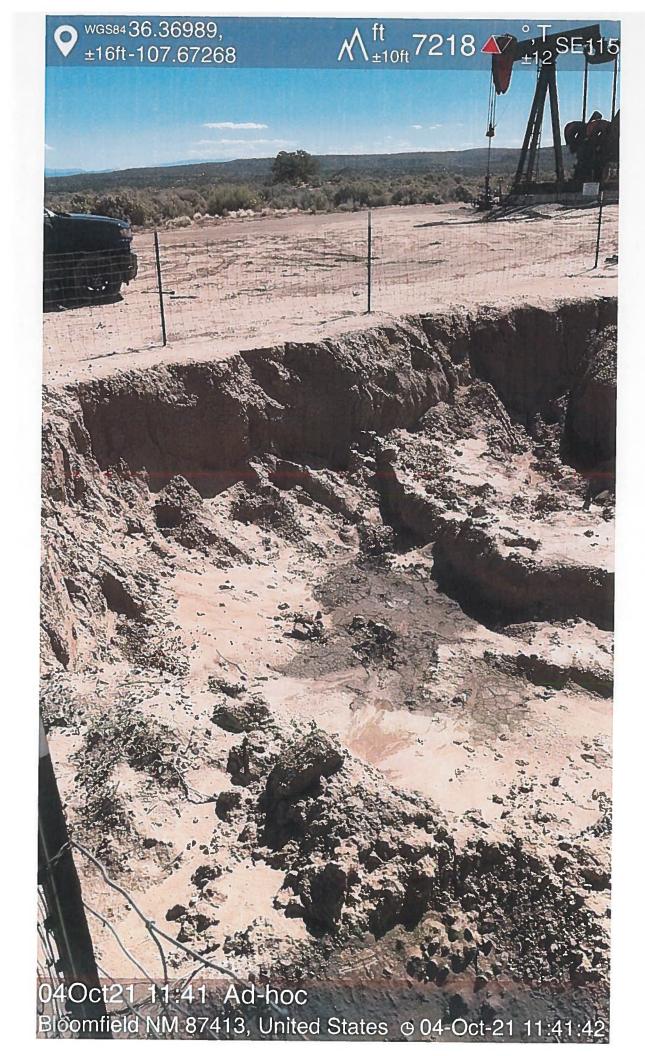


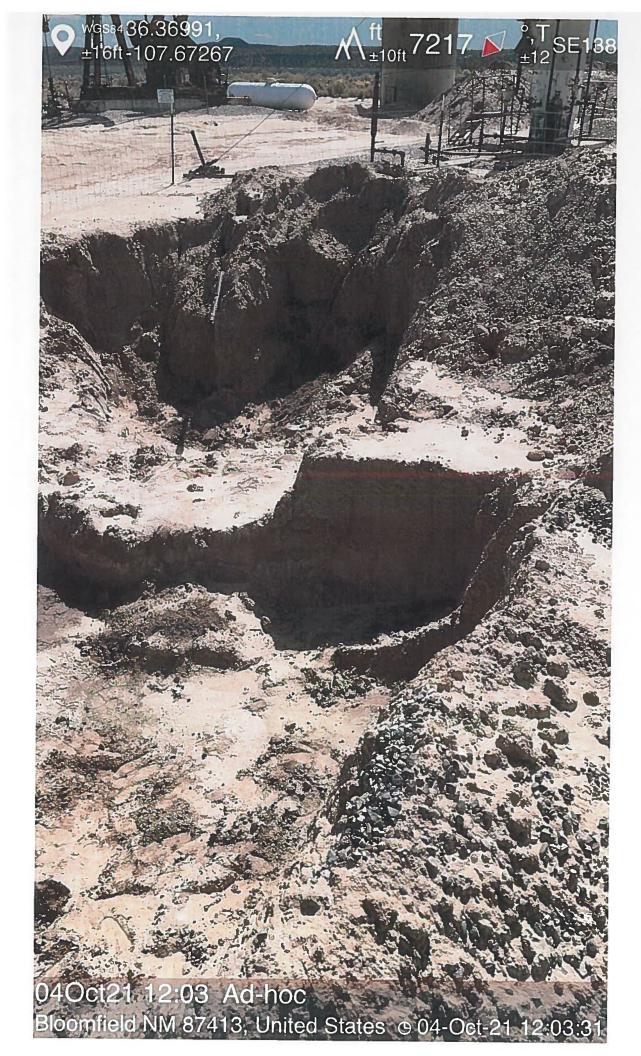


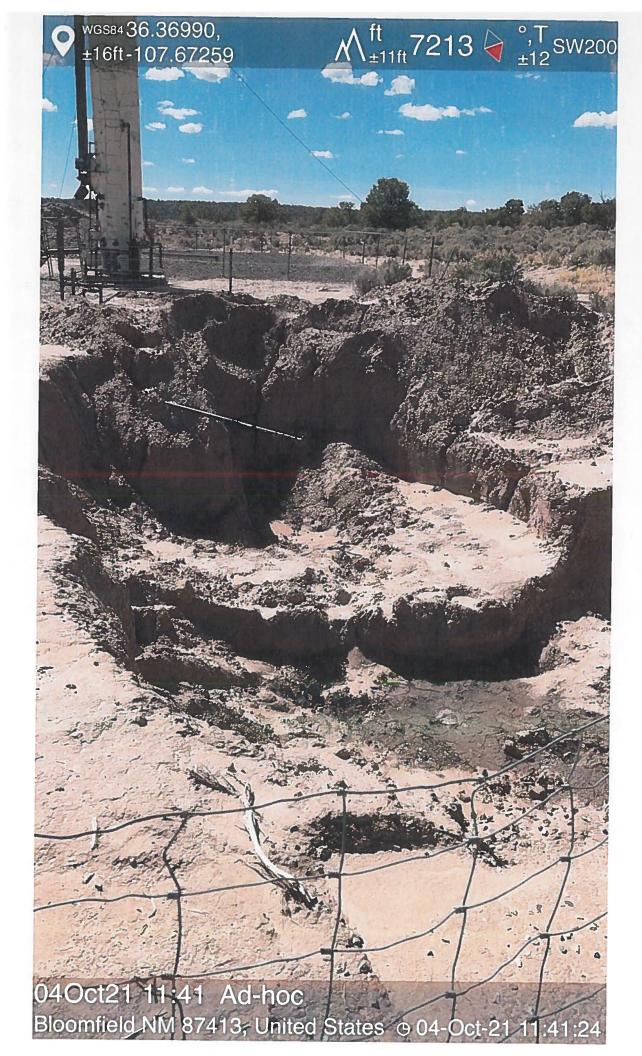








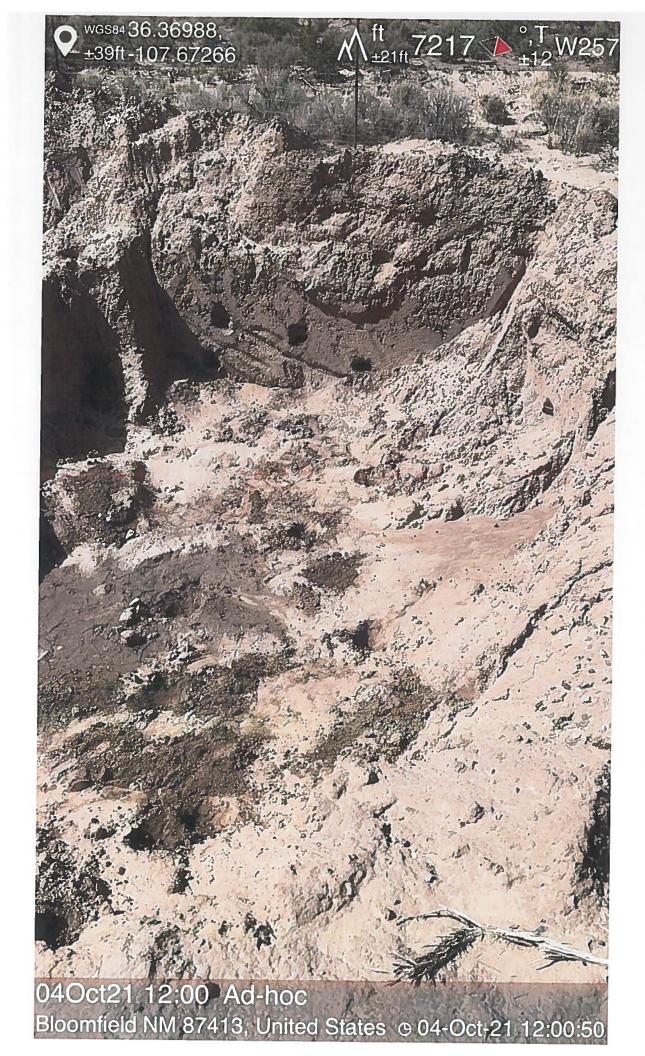




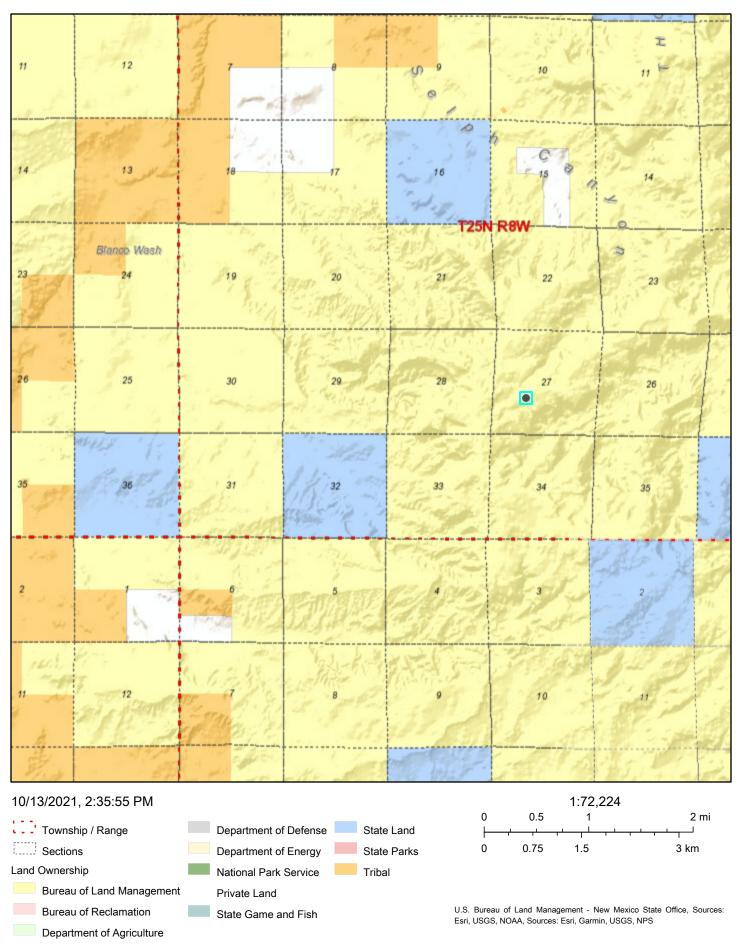
Received by OCD: 10/27/2021 10:11:50 AM



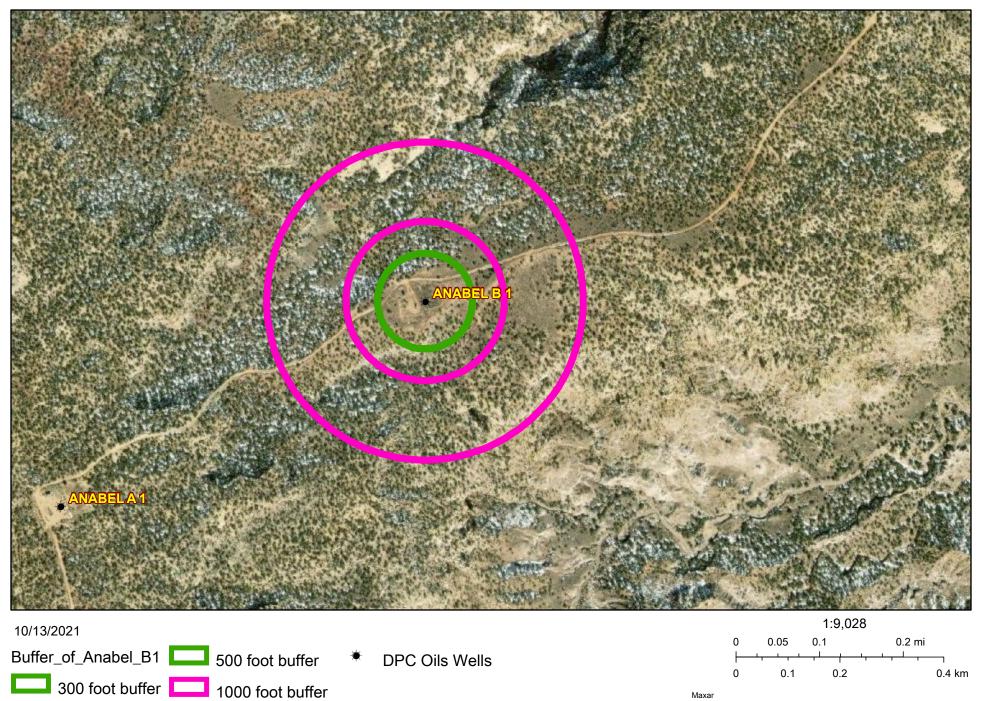




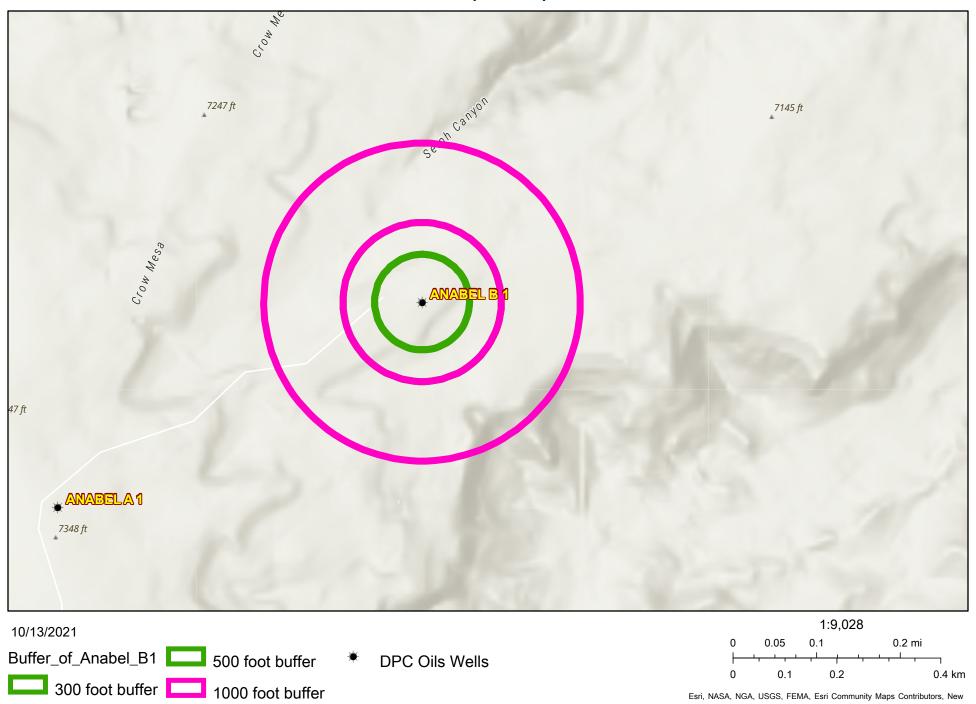
# Active Mines in New Mexico



# Anabel B1 Spill Map Buffers

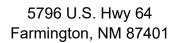


# Anabel B1 Spill Map Buffers



Report to: Kevin Smaka





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





# envirotech

Practical Solutions for a Better Tomorrow

## **Analytical Report**

Dugan Production Corp.

Project Name: Anabel

Work Order: E110015

Job Number: 06094-0177

Received: 10/4/2021

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 10/7/21

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.

Envirotech Inc, holds the NM SDWA certification for data reported. (Lab #NM00979)

Date Reported: 10/7/21

Kevin Smaka PO Box 420

Farmington, NM 87499

Project Name: Anabel Workorder: E110015

Date Received: 10/4/2021 1:37:00PM

Kevin Smaka,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/4/2021 1:37:00PM, under the Project Name: Anabel.

The analytical test results summarized in this report with the Project Name: Anabel 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

West Texas Midland/Odessa Area Tom Brown

Technical Representative Cell: 832-444-7704

tbrown@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

## Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
Anabel B1	5
Anabel B2	6
Anabel B3	7
Anabel W1	8
Anabel W2	9
Anabel W3	10
Anabel W4	11
Anabel W5	12
Anabel W6	13
QC Summary Data	14
QC - Volatile Organic Compounds by EPA 8260B	14
QC - Nonhalogenated Organics by EPA 8015D - GRO	15
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	16
QC - Anions by EPA 300.0/9056A	17
Definitions and Notes	18
Chain of Custody etc.	19

## **Sample Summary**

Dugan Production Corp.	Project Name:	Anabel	Donoutodi
PO Box 420	Project Number:	06094-0177	Reported:
Farmington NM, 87499	Project Manager:	Kevin Smaka	10/07/21 16:26

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Anabel B1	E110015-01A	Soil	10/04/21	10/04/21	Glass Jar, 4 oz.
Anabel B2	E110015-02A	Soil	10/04/21	10/04/21	Glass Jar, 4 oz.
Anabel B3	E110015-03A	Soil	10/04/21	10/04/21	Glass Jar, 4 oz.
Anabel W1	E110015-04A	Soil	10/04/21	10/04/21	Glass Jar, 4 oz.
Anabel W2	E110015-05A	Soil	10/04/21	10/04/21	Glass Jar, 4 oz.
Anabel W3	E110015-06A	Soil	10/04/21	10/04/21	Glass Jar, 4 oz.
Anabel W4	E110015-07A	Soil	10/04/21	10/04/21	Glass Jar, 4 oz.
Anabel W5	E110015-08A	Soil	10/04/21	10/04/21	Glass Jar, 4 oz.
Anabel W6	E110015-09A	Soil	10/04/21	10/04/21	Glass Jar, 4 oz.



# Sample Data

Ī	Dugan Production Corp.	Project Name:	Anabel	
	PO Box 420	Project Number:	06094-0177	Reported:
	Farmington NM, 87499	Project Manager:	Kevin Smaka	10/7/2021 4:26:37PM

#### Anabel B1 E110015-01

		2110010 01					
		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: 1	IY		Batch: 2141029
Benzene	ND	0.0250	1	l	10/06/21	10/07/21	
Ethylbenzene	ND	0.0250	1	1	10/06/21	10/07/21	
Toluene	ND	0.0250	1	1	10/06/21	10/07/21	
o-Xylene	ND	0.0250	1	1	10/06/21	10/07/21	
p,m-Xylene	ND	0.0500	1	1	10/06/21	10/07/21	
Total Xylenes	ND	0.0250	1	1	10/06/21	10/07/21	
Surrogate: Bromofluorobenzene		91.0 %	70-130		10/06/21	10/07/21	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130		10/06/21	10/07/21	
Surrogate: Toluene-d8		97.4 %	70-130		10/06/21	10/07/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: 1	IY		Batch: 2141029
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	10/06/21	10/07/21	
Surrogate: Bromofluorobenzene		91.0 %	70-130		10/06/21	10/07/21	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130		10/06/21	10/07/21	
Surrogate: Toluene-d8		97.4 %	70-130		10/06/21	10/07/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: .	JL		Batch: 2141032
Diesel Range Organics (C10-C28)	1170	50.0	2	2	10/06/21	10/07/21	
Oil Range Organics (C28-C36)	522	100	2	2	10/06/21	10/07/21	
Surrogate: n-Nonane		114 %	50-200		10/06/21	10/07/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: 1	RAS		Batch: 2141028
Chloride	21.1	20.0	1	1	10/06/21	10/06/21	



## Sample Data

Dugan Production Corp.Project Name:AnabelPO Box 420Project Number:06094-0177Reported:Farmington NM, 87499Project Manager:Kevin Smaka10/7/2021 4:26:37PM

#### Anabel B2 E110015-02

		2110010 02				
Analyte	Result	Reporting Limit	Diluti	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: IY		Batch: 2141029
Benzene	ND	0.0250	1	10/06/21	10/07/21	
Ethylbenzene	ND	0.0250	1	10/06/21	10/07/21	
Toluene	ND	0.0250	1	10/06/21	10/07/21	
o-Xylene	ND	0.0250	1	10/06/21	10/07/21	
p,m-Xylene	ND	0.0500	1	10/06/21	10/07/21	
Total Xylenes	ND	0.0250	1	10/06/21	10/07/21	
Surrogate: Bromofluorobenzene		92.7 %	70-130	10/06/21	10/07/21	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	10/06/21	10/07/21	
Surrogate: Toluene-d8		97.4 %	70-130	10/06/21	10/07/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Α	Analyst: IY		Batch: 2141029
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/21	10/07/21	
Surrogate: Bromofluorobenzene		92.7 %	70-130	10/06/21	10/07/21	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	10/06/21	10/07/21	
Surrogate: Toluene-d8		97.4 %	70-130	10/06/21	10/07/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Α	Analyst: JL		Batch: 2141032
Diesel Range Organics (C10-C28)	141	25.0	1	10/06/21	10/07/21	
Oil Range Organics (C28-C36)	85.8	50.0	1	10/06/21	10/07/21	
Surrogate: n-Nonane		107 %	50-200	10/06/21	10/07/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Α	Analyst: RAS		Batch: 2141028
Chloride	ND	20.0	1	10/06/21	10/06/21	

## Sample Data

Dugan Production Corp.Project Name:AnabelPO Box 420Project Number:06094-0177Reported:Farmington NM, 87499Project Manager:Kevin Smaka10/7/2021 4:26:37PM

#### Anabel B3 E110015-03

		Reporting				
Analyte	Result	Limit	Diluti	on Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	nalyst: IY		Batch: 2141029
Benzene	ND	0.0250	1	10/06/21	10/07/21	
Ethylbenzene	ND	0.0250	1	10/06/21	10/07/21	
Toluene	ND	0.0250	1	10/06/21	10/07/21	
o-Xylene	ND	0.0250	1	10/06/21	10/07/21	
p,m-Xylene	ND	0.0500	1	10/06/21	10/07/21	
Total Xylenes	ND	0.0250	1	10/06/21	10/07/21	
Surrogate: Bromofluorobenzene		90.2 %	70-130	10/06/21	10/07/21	
Surrogate: 1,2-Dichloroethane-d4		99.4 %	70-130	10/06/21	10/07/21	
Surrogate: Toluene-d8		97.1 %	70-130	10/06/21	10/07/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	nalyst: IY		Batch: 2141029
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/21	10/07/21	
Surrogate: Bromofluorobenzene		90.2 %	70-130	10/06/21	10/07/21	
Surrogate: 1,2-Dichloroethane-d4		99.4 %	70-130	10/06/21	10/07/21	
Surrogate: Toluene-d8		97.1 %	70-130	10/06/21	10/07/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	nalyst: JL		Batch: 2141032
Diesel Range Organics (C10-C28)	116	25.0	1	10/06/21	10/07/21	
Oil Range Organics (C28-C36)	74.7	50.0	1	10/06/21	10/07/21	
Surrogate: n-Nonane		112 %	50-200	10/06/21	10/07/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: RAS		Batch: 2141028
	21.3	20.0		10/06/21	10/06/21	

Dugan Production Corp.Project Name:AnabelPO Box 420Project Number:06094-0177Reported:Farmington NM, 87499Project Manager:Kevin Smaka10/7/2021 4:26:37PM

### Anabel W1 E110015-04

		E110013-04					
Analyte	Result	Reporting Limit	Dilu	tion	Prepared	Analyzed	Notes
					•		
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	I	Analyst: Γ	Y		Batch: 2141029
Benzene	ND	0.0250	1	Į.	10/06/21	10/07/21	
Ethylbenzene	ND	0.0250	1	Į.	10/06/21	10/07/21	
Toluene	ND	0.0250	1	Į.	10/06/21	10/07/21	
o-Xylene	ND	0.0250	1	l	10/06/21	10/07/21	
p,m-Xylene	ND	0.0500	1	l	10/06/21	10/07/21	
Total Xylenes	ND	0.0250	1	l	10/06/21	10/07/21	
Surrogate: Bromofluorobenzene		91.3 %	70-130		10/06/21	10/07/21	
Surrogate: 1,2-Dichloroethane-d4		97.8 %	70-130		10/06/21	10/07/21	
Surrogate: Toluene-d8		98.3 %	70-130		10/06/21	10/07/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: Γ	Y		Batch: 2141029
Gasoline Range Organics (C6-C10)	ND	20.0	1		10/06/21	10/07/21	
Surrogate: Bromofluorobenzene		91.3 %	70-130		10/06/21	10/07/21	
Surrogate: 1,2-Dichloroethane-d4		97.8 %	70-130		10/06/21	10/07/21	
Surrogate: Toluene-d8		98.3 %	70-130		10/06/21	10/07/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: Jl	L		Batch: 2141032
Diesel Range Organics (C10-C28)	191	25.0	1		10/06/21	10/07/21	
Oil Range Organics (C28-C36)	144	50.0	1		10/06/21	10/07/21	
Surrogate: n-Nonane	·	115 %	50-200		10/06/21	10/07/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: R	AS		Batch: 2141028
Chloride	ND	20.0	1		10/06/21	10/06/21	

Dugan Production Corp.	Project Name:	Anabel	
PO Box 420	Project Number:	06094-0177	Reported:
Farmington NM, 87499	Project Manager:	Kevin Smaka	10/7/2021 4:26:37PM

#### Anabel W2 E110015-05

Result	Reporting	Dilu	ıtion	Prepared	Analyzed	Notes
						Batch: 2141029
					10/07/21	Datell. 2141029
			•			
			•			
			•			
		]	l			
ND	0.0250	1	l	10/06/21	10/07/21	
	90.3 %	70-130		10/06/21	10/07/21	
	99.5 %	70-130		10/06/21	10/07/21	
	98.2 %	70-130		10/06/21	10/07/21	
mg/kg	mg/kg		Analyst:	IY		Batch: 2141029
ND	20.0	1	1	10/06/21	10/07/21	
	90.3 %	70-130		10/06/21	10/07/21	
	99.5 %	70-130		10/06/21	10/07/21	
	98.2 %	70-130		10/06/21	10/07/21	
mg/kg	mg/kg		Analyst:	JL		Batch: 2141032
ND	25.0	1	1	10/06/21	10/07/21	
ND	50.0	1	1	10/06/21	10/07/21	
	115 %	50-200		10/06/21	10/07/21	
mg/kg	mg/kg		Analyst:	RAS		Batch: 2141028
	ND  mg/kg  ND	Result         Limit           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           90.3 %         99.5 %           98.2 %         mg/kg           ND         20.0           90.3 %         99.5 %           98.2 %         98.2 %           mg/kg         mg/kg           ND         25.0           ND         50.0	Result         Limit         Dile           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0500           ND         0.0250           90.3 %         70-130           99.5 %         70-130           98.2 %         70-130           mg/kg         mg/kg           ND         20.0           mg/kg         70-130           98.2 %         70-130           98.2 %         70-130           mg/kg         mg/kg           ND         25.0           ND         50.0	Result         Limit         Dilution           mg/kg         mg/kg         Analyst:           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           ND         0.0250         1           99.5 %         70-130         70-130           98.2 %         70-130         70-130           99.5 %         70-130         70-130           99.5 %         70-130         70-130           98.2 %         70-130         70-130           98.2 %         70-130         70-130           mg/kg         mg/kg         Analyst:           ND         25.0         1           ND         50.0         1	Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: IV           ND         0.0250         1         10/06/21           ND         0.0250         1         10/06/21           ND         0.0250         1         10/06/21           ND         0.0250         1         10/06/21           ND         0.0500         1         10/06/21           ND         0.0250         1         10/06/21           90.3 %         70-130         10/06/21           99.5 %         70-130         10/06/21           98.2 %         70-130         10/06/21           99.5 %         70-130         10/06/21           99.5 %         70-130         10/06/21           98.2 %         70-130         10/06/21           98.2 %         70-130         10/06/21           98.2 %         70-130         10/06/21           mg/kg         mg/kg         Analyst: JL           ND         25.0         1         10/06/21           ND         50.0         1         10/06/21	Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: IV           ND         0.0250         1         10/06/21         10/07/21           ND         0.0250         1         10/06/21         10/07/21           ND         0.0250         1         10/06/21         10/07/21           ND         0.0500         1         10/06/21         10/07/21           ND         0.0250         1         10/06/21         10/07/21           ND         0.0250         1         10/06/21         10/07/21           90.3 %         70-130         10/06/21         10/07/21           99.5 %         70-130         10/06/21         10/07/21           mg/kg         mg/kg         Analyst: IY           ND         20.0         1         10/06/21         10/07/21           99.3 %         70-130         10/06/21         10/07/21           99.5 %         70-130         10/06/21         10/07/21           98.2 %         70-130         10/06/21         10/07/21           mg/kg         mg/kg         Analyst: JL           ND         25.0         1         10/06

Dugan Production Corp.Project Name:AnabelPO Box 420Project Number:06094-0177Reported:Farmington NM, 87499Project Manager:Kevin Smaka10/7/2021 4:26:37PM

# Anabel W3 E110015-06

		Ellouic oo				
Analyte	Result	Reporting Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2141029
Benzene	ND	0.0250	1	10/06/21	10/07/21	
Ethylbenzene	ND	0.0250	1	10/06/21	10/07/21	
Toluene	ND	0.0250	1	10/06/21	10/07/21	
o-Xylene	ND	0.0250	1	10/06/21	10/07/21	
p,m-Xylene	ND	0.0500	1	10/06/21	10/07/21	
Total Xylenes	ND	0.0250	1	10/06/21	10/07/21	
Surrogate: Bromofluorobenzene		89.9 %	70-130	10/06/21	10/07/21	
Surrogate: 1,2-Dichloroethane-d4		98.3 %	70-130	10/06/21	10/07/21	
Surrogate: Toluene-d8		97.9 %	70-130	10/06/21	10/07/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: IY		Batch: 2141029
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/21	10/07/21	
Surrogate: Bromofluorobenzene		89.9 %	70-130	10/06/21	10/07/21	
Surrogate: 1,2-Dichloroethane-d4		98.3 %	70-130	10/06/21	10/07/21	
Surrogate: Toluene-d8		97.9 %	70-130	10/06/21	10/07/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: JL		Batch: 2141032
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/21	10/07/21	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/21	10/07/21	
Surrogate: n-Nonane		110 %	50-200	10/06/21	10/07/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: RAS		Batch: 2141028
Chloride	ND	20.0	1	10/06/21	10/06/21	

Dugan Production Corp.Project Name:AnabelPO Box 420Project Number:06094-0177Reported:Farmington NM, 87499Project Manager:Kevin Smaka10/7/2021 4:26:37PM

### Anabel W4 E110015-07

D14	Reporting	Dileti	D	A	Notes
Result	Limit	Dilutio	on Prepared	Analyzed	Notes
mg/kg	mg/kg	Aı	nalyst: IY		Batch: 2141029
ND	0.0250	1	10/06/21	10/07/21	
ND	0.0250	1	10/06/21	10/07/21	
ND	0.0250	1	10/06/21	10/07/21	
ND	0.0250	1	10/06/21	10/07/21	
ND	0.0500	1	10/06/21	10/07/21	
ND	0.0250	1	10/06/21	10/07/21	
	89.6 %	70-130	10/06/21	10/07/21	
	97.9 %	70-130	10/06/21	10/07/21	
	97.0 %	70-130	10/06/21	10/07/21	
mg/kg	mg/kg	Aı	nalyst: IY		Batch: 2141029
ND	20.0	1	10/06/21	10/07/21	
	89.6 %	70-130	10/06/21	10/07/21	
	97.9 %	70-130	10/06/21	10/07/21	
	97.0 %	70-130	10/06/21	10/07/21	
mg/kg	mg/kg	Aı	nalyst: JL		Batch: 2141032
ND	25.0	1	10/06/21	10/07/21	
ND	50.0	1	10/06/21	10/07/21	
	108 %	50-200	10/06/21	10/07/21	
mg/kg	mg/kg	Aı	nalyst: RAS		Batch: 2141028
ND	20.0	1	10/06/21	10/06/21	
	ND ND ND ND ND ND ND ND ND Mg/kg ND Mg/kg	Result         Limit           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           ND         0.0250           89.6 %         97.9 %           97.0 %         97.0 %           mg/kg         mg/kg           ND         20.0           89.6 %         97.9 %           97.0 %         97.0 %           mg/kg         mg/kg           ND         25.0           ND         50.0           108 %         mg/kg           mg/kg         mg/kg	Result         Limit         Dilution           mg/kg         mg/kg         A           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           ND         0.0250         1           89.6 %         70-130         70-130           97.9 %         70-130         70-130           mg/kg         mg/kg         A           ND         20.0         1           89.6 %         70-130         70-130           97.9 %         70-130         70-130           mg/kg         mg/kg         A           ND         25.0         1           ND         50.0         1           108 %         50-200	Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: IY           ND         0.0250         1         10/06/21           ND         0.0250         1         10/06/21           ND         0.0250         1         10/06/21           ND         0.0250         1         10/06/21           ND         0.0500         1         10/06/21           ND         0.0250         1         10/06/21           ND         0.0250         1         10/06/21           89.6 %         70-130         10/06/21           97.9 %         70-130         10/06/21           mg/kg         mg/kg         Analyst: IY           ND         20.0         1         10/06/21           89.6 %         70-130         10/06/21           97.9 %         70-130         10/06/21           97.9 %         70-130         10/06/21           97.0 %         70-130         10/06/21           mg/kg         mg/kg         Analyst: JL           ND         25.0         1         10/06/21           ND         50.0         1         10/06/21	Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: IY           ND         0.0250         1         10/06/21         10/07/21           ND         0.0500         1         10/06/21         10/07/21           ND         0.0250         1         10/06/21         10/07/21           ND         0.0250         1         10/06/21         10/07/21           97.9 %         70-130         10/06/21         10/07/21           97.9 %         70-130         10/06/21         10/07/21           mg/kg         mg/kg         Analyst: IV         10/07/21           mg/kg         mg/kg         Analyst: J         10/06/21         10/07/21           mg/kg         mg/kg         Analyst: J         10/06/21         10/07/21           mg/kg         mg/kg         Analyst: J         1         10/06/21         10/07/21           nD         25.0



Dugan Production Corp.Project Name:AnabelPO Box 420Project Number:06094-0177Reported:Farmington NM, 87499Project Manager:Kevin Smaka10/7/2021 4:26:37PM

# Anabel W5 E110015-08

		Elloole oo				
Analyte	Result	Reporting Limit	Diluti	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	analyst: IY		Batch: 2141029
Benzene	ND	0.0250	1	10/06/21	10/07/21	
Ethylbenzene	ND	0.0250	1	10/06/21	10/07/21	
Toluene	ND	0.0250	1	10/06/21	10/07/21	
o-Xylene	ND	0.0250	1	10/06/21	10/07/21	
p,m-Xylene	ND	0.0500	1	10/06/21	10/07/21	
Total Xylenes	ND	0.0250	1	10/06/21	10/07/21	
Surrogate: Bromofluorobenzene		88.1 %	70-130	10/06/21	10/07/21	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	10/06/21	10/07/21	
Surrogate: Toluene-d8		97.4 %	70-130	10/06/21	10/07/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	analyst: IY		Batch: 2141029
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/21	10/07/21	
Surrogate: Bromofluorobenzene		88.1 %	70-130	10/06/21	10/07/21	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	10/06/21	10/07/21	
Surrogate: Toluene-d8		97.4 %	70-130	10/06/21	10/07/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	analyst: JL		Batch: 2141032
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/21	10/07/21	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/21	10/07/21	
Surrogate: n-Nonane		113 %	50-200	10/06/21	10/07/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	analyst: RAS		Batch: 2141028
Chloride	ND	20.0	1	10/06/21	10/06/21	_

Dugan Production Corp.Project Name:AnabelPO Box 420Project Number:06094-0177Reported:Farmington NM, 87499Project Manager:Kevin Smaka10/7/2021 4:26:37PM

# Anabel W6 E110015-09

		Ellouic 07				
Analyte	Result	Reporting Limit	Dilut	tion Prepar	ed Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: IY		Batch: 2141029
Benzene	ND	0.0250	1	10/06/	21 10/07/21	
Ethylbenzene	ND	0.0250	1	10/06/2	21 10/07/21	
Toluene	ND	0.0250	1	10/06/2	21 10/07/21	
o-Xylene	ND	0.0250	1	10/06/	21 10/07/21	
p,m-Xylene	ND	0.0500	1	10/06/	21 10/07/21	
Total Xylenes	ND	0.0250	1	10/06/	21 10/07/21	
Surrogate: Bromofluorobenzene		90.2 %	70-130	10/06/	21 10/07/21	
Surrogate: 1,2-Dichloroethane-d4		97.9 %	70-130	10/06/	21 10/07/21	
Surrogate: Toluene-d8		98.4 %	70-130	10/06/	21 10/07/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: IY		Batch: 2141029
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/	21 10/07/21	
Surrogate: Bromofluorobenzene		90.2 %	70-130	10/06/	21 10/07/21	
Surrogate: 1,2-Dichloroethane-d4		97.9 %	70-130	10/06/	21 10/07/21	
Surrogate: Toluene-d8		98.4 %	70-130	10/06/	21 10/07/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: JL		Batch: 2141032
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/2	21 10/07/21	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/	21 10/07/21	
Surrogate: n-Nonane		114 %	50-200	10/06/.	21 10/07/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: RAS		Batch: 2141028
Chloride	ND	20.0	1	10/06/	21 10/06/21	

### **QC Summary Data**

Dugan Production Corp. Project Name: Anabel Reported: PO Box 420 Project Number: 06094-0177 Farmington NM, 87499 Project Manager: Kevin Smaka 10/7/2021 4:26:37PM **Volatile Organic Compounds by EPA 8260B** Analyst: IY Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % % Notes Blank (2141029-BLK1) Prepared: 10/06/21 Analyzed: 10/06/21 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 ND 0.0250 Total Xylenes Surrogate: Bromofluorobenzene 0.460 0.500 92.0 70-130 Surrogate: 1,2-Dichloroethane-d4 0.470 0.500 94.0 70-130 0.500 98.4 70-130 Surrogate: Toluene-d8 0.492 LCS (2141029-BS1) Prepared: 10/06/21 Analyzed: 10/06/21 2.58 0.0250 2.50 103 70-130 Benzene 2.58 2.50 103 70-130 Ethylbenzene 0.0250 2.62 0.0250 2.50 105 70-130 2.47 99.0 70-130 0.0250 2.50 o-Xylene 5.10 102 70-130 p,m-Xylene 0.0500 5.00 7.57 0.0250 7.50 101 70-130 Total Xylenes Surrogate: Bromofluorobenzene 0.473 0.500 94.6 70-130 0.500 97.0 70-130 Surrogate: 1,2-Dichloroethane-d4 0.485 70-130 Surrogate: Toluene-d8 0.498 0.500 Matrix Spike (2141029-MS1) Source: E110007-01 Prepared: 10/06/21 Analyzed: 10/06/21 48-131 2.62 0.0250 2.50 ND 45-135 Ethylbenzene 2.62 0.0250 2.50 ND 105 48-130 Toluene 2.66 0.0250 2.50 ND 106 2.50 0.0250 2.50 ND 100 43-135 o-Xylene ND 103 43-135 p,m-Xylene 5.16 0.0500 5.00 Total Xylenes 7.67 0.0250 7.50 ND 102 43-135 Surrogate: Bromofluorobenzene 0.473 0.500 94.5 70-130 0.500 97.8 70-130 Surrogate: 1,2-Dichloroethane-d4 0.489 0.500 70-130 0.494 98.7 Surrogate: Toluene-d8 Matrix Spike Dup (2141029-MSD1) Source: E110007-01 Prepared: 10/06/21 Analyzed: 10/06/21



Ethylbenzene

Toluene

o-Xylene

p,m-Xylene

Total Xylenes

Surrogate: Toluene-d8

Surrogate: Bromofluorobenzene

Surrogate: 1,2-Dichloroethane-d4

2.90

2.96

2.98

2.82

5.81

8.64

0.456

0.475

0.493

0.0250

0.0250

0.0250

0.0250

0.0500

0.0250

2.50

2.50

2.50

2.50

5.00

7.50

0.500

0.500

0.500

ND

ND

ND

ND

ND

ND

116

118

119

113

116

115

91.1

95.0

48-131

45-135

48-130

43-135

43-135

43-135

70-130

70-130

70-130

10.0

12.1

11.4

12.0

11.8

11.9

23

27

24

27

27

27

Surrogate: 1,2-Dichloroethane-d4

Surrogate: Toluene-d8

### **QC Summary Data**

Dugan Production Corp.Project Name:AnabelReported:PO Box 420Project Number:06094-0177Farmington NM, 87499Project Manager:Kevin Smaka10/7/2021 4:26:37PM

PO Box 420		Project Number:		094-0177 evin Smaka					10/7/2021 4:26:37PI
Farmington NM, 87499		Project Manager:	. K	viii Siliaka					10///2021 4.20.3/F1
	Non	halogenated (	Organics l	by EPA 801	5D - GF	RO			Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2141029-BLK1)							Prepared: 1	0/06/21	Analyzed: 10/06/21
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.460		0.500		92.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.470		0.500		94.0	70-130			
Surrogate: Toluene-d8	0.492		0.500		98.4	70-130			
LCS (2141029-BS2)							Prepared: 10	0/06/21	Analyzed: 10/06/21
Gasoline Range Organics (C6-C10)	44.3	20.0	50.0		88.6	70-130			
Surrogate: Bromofluorobenzene	0.462		0.500		92.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.478		0.500		95.5	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.5	70-130			
Matrix Spike (2141029-MS2)				Source:	E110007-0	1	Prepared: 10	0/06/21	Analyzed: 10/06/21
Gasoline Range Organics (C6-C10)	47.1	20.0	50.0	ND	94.2	70-130			
Surrogate: Bromofluorobenzene	0.458		0.500		91.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.8	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.5	70-130			
Matrix Spike Dup (2141029-MSD2)				Source:	E110007-0	1	Prepared: 1	0/06/21	Analyzed: 10/06/21
Gasoline Range Organics (C6-C10)	51.8	20.0	50.0	ND	104	70-130	9.60	20	
Surrogate: Bromofluorobenzene	0.457		0.500		91.3	70-130			

0.500

0.500

0.497

0.520

70-130

70-130

99.3

104



### **QC Summary Data**

Dugan Production Corp.	Project Name:	Anabel	Reported:
PO Box 420	Project Number:	06094-0177	•
Farmington NM, 87499	Project Manager:	Kevin Smaka	10/7/2021 4:26:37PM

Farmington NM, 87499		Project Manage	r: Ke	vin Smaka					10/7/2021 4:26:37PM
	Nonha	logenated Or	ganics by	EPA 8015I	) - DRO	/ORO			Analyst: JL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limi	t
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2141032-BLK1)							Prepared:	10/06/21	Analyzed: 10/06/21
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	61.1		50.0		122	50-200			
LCS (2141032-BS1)							Prepared:	10/06/21	Analyzed: 10/06/21
Diesel Range Organics (C10-C28)	536	25.0	500		107	38-132			
Surrogate: n-Nonane	53.8		50.0		108	50-200			
Matrix Spike (2141032-MS1)				Source:	E110015-0	)1	Prepared:	10/06/21	Analyzed: 10/06/21
Diesel Range Organics (C10-C28)	2680	50.0	500	1170	301	38-132			M2
Surrogate: n-Nonane	50.7		50.0		101	50-200			
Matrix Spike Dup (2141032-MSD1)				Source:	E110015-0	)1	Prepared:	10/06/21	Analyzed: 10/06/21
Diesel Range Organics (C10-C28)	1480	50.0	500	1170	61.0	38-132	57.7	20	R4
Surrogate: n-Nonane	56.3		50.0		113	50-200			



### **QC Summary Data**

Dugan Production Corp.		Project Name:	A	nabel					Re	ported:
PO Box 420		Project Number:	06	094-0177						
Farmington NM, 87499		Project Manager	: K	evin Smaka					10/7/2021	4:26:37PM
		Anions	by EPA 3	600.0/9056 <i>A</i>	4				Analys	t: RAS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%		Notes
Blank (2141028-BLK1)							Prepared: 1	10/06/21	Analyzed:	10/06/21
Chloride	ND	20.0								
LCS (2141028-BS1)							Prepared: 1	10/06/21	Analyzed:	10/06/21
Chloride	226	20.0	250		90.3	90-110				
Matrix Spike (2141028-MS1)				Source:	E110015-0	)1	Prepared: 1	10/06/21	Analyzed:	10/06/21
Chloride	253	20.0	250	21.1	92.9	80-120				
Matrix Spike Dup (2141028-MSD1)				Source:	E110015-0	)1	Prepared: 1	10/06/21	Analyzed:	10/06/21
Chloride	266	20.0	250	21.1	97.8	80-120	4.74	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**

ſ	Dugan Production Corp.	Project Name:	Anabel	
١	PO Box 420	Project Number:	06094-0177	Reported:
١	Farmington NM, 87499	Project Manager:	Kevin Smaka	10/07/21 16:26

M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.

R4 The RPD exceeded the acceptance limit. Sample visually appears to be non-homogenous.

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.



Released to Imaging: 1/7/20252343:01 PM

Page	_1	_ of	
EF	PA Pr	ogra	m
	VA		WA
		RC	RA
Sta	ite	-	
UT	AZ	TX	

Client:		ger 1				Bill To						se Or	nly	ŧ,			TA	Т	EPA P	rogram
Project: An		h		01/		Attention:		Lab	NO#	†	ij.		Num		1D	2D	3D	Standard	CWA	SDWA
<u>Project Manag</u> Address:	ger: K	evin	SM	Cilla		Address:		E	10	Ol:	>	_	_	4-01-			X			
City, State, Zip						City, State, Zip		-	_	_	_	Analy	ysis ar	nd Meth	nod					RCRA
Phone:						Phone:				l							1 1			
Email:					1000	Email:		8015	8015			1						NAME OF	State	T-14
Report due by	:							yd C	) by	3021	260	9	300.0					NM CO	UI AZ	TX
Time Date S	Sampled	Matrix	No. of Containers	Sample II	D		Lab Number	DRO/ORO by	GRO/DRO by	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0						Remarks	
1210 10	14	5		Ar	19be	131	1	X	X	X			X							
				An	ahe	132	2		1					i						
				An	abe	1 33	3													
				Ang	bel	W	4													
				Ang	1501	WZ	5													
				Ang.	bel	W3	6													
				Ang	bel	WY	7													
				Ang	bel	W5	8													
VV		Y	V	Ah	abel	W 6	9	1	1/1											
										7										
Additional Inst									I N							-0,-				
(field sampler), att ate or time of collec	est to the v	validity and isidered fra	authenticit ud and may	of this samp be grounds f	or regaraction	,	abelling the sample to	ation,	Ke	?								ived on ice the day th C on subsequent day:		d or received
telinquished by: (S	Signature	By!	Date	3/4	Time (3	Received by: (Signature)	10 4 2		Time	:37		Rece	ived	on ice:		ab U	se Only	1		
telinquished by: (S	Signature		Date		Time	Received by: (Signature)	Date		Time	-		T1			T2	٠, ر		<u></u>		
elinquished by: (S	Signature		Date		Time	Received by: (Signature)	Date		Time				Tem	o°c 4				. 10		
ample Matrix: <b>S</b> - So							Container	Type	: g - g	lass.	p - pc	ly/pla	stic.	ag - am	ber gla	SS. V -	VOA			
lote: Samples are	discarded	d 30 days a	after result	s are report	ed unless ot	her arrangements are made. Hazarde	ous samples will be	returr	ned to	clien	t or di	spose	d of at	the clie	nt expe	nse.	The repo	ort for the analys	is of the ab	oove
amples is applical	ble only to	those sar	mples rece	ived by the	laboratory v	vith this COC. The liability of the labora	atory is limited to th	e amo	ount p	aid fo	or on t	he rep	ort.							



envirotech Inc.

### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Dugan Production Corp.	Date Received:	10/04/21	18:02		Work Order ID:	E110015
Phone:	(505) 325-1821	Date Logged In:	10/04/21	18:02		Logged In By:	Raina Schwanz
Email:		Due Date:	10/08/21	17:00 (3 day TAT)			
	Custody (COC)						
	he sample ID match the COC?	1.4. 606	Yes				
	he number of samples per sampling site location mate	n the COC	Yes				
	samples dropped off by client or carrier?	1 1 0	Yes	Carrier: <u>K</u>	Kevin Smaka		
	te COC complete, i.e., signatures, dates/times, requeste	ed analyses?	Yes				
5. were a	Ill samples received within holding time? Note: Analysis, such as pH which should be conducted in ti.e, 15 minute hold time, are not included in this disucssion		Yes			<u>Comment</u>	s/Resolution
	<u> Гurn Around Time (TAT)</u>						
6. Did th	e COC indicate standard TAT, or Expedited TAT?		Yes				
Sample (							
	sample cooler received?		Yes				
•	was cooler received in good condition?		Yes				
	ne sample(s) received intact, i.e., not broken?		Yes				
	custody/security seals present?		No				
11. If yes	s, were custody/security seals intact?		NA				
	ne sample received on ice? If yes, the recorded temp is 4°C, i.  Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample to	received w/i 15	Yes				
	<u>Container</u>		_				
_	equeous VOC samples present?		No				
	VOC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
17. Was a	a trip blank (TB) included for VOC analyses?		NA				
	ion-VOC samples collected in the correct containers?		Yes				
	appropriate volume/weight or number of sample containe	rs collected?	Yes				
Field La	<u>bel</u>						
20. Were	field sample labels filled out with the minimum inform	mation:					
	sample ID?		Yes				
	Oate/Time Collected?		Yes	,			
	Collectors name?		Yes				
	<u>Preservation</u> the COC or field labels indicate the samples were pre	comrad?	No				
	ample(s) correctly preserved?	scrvcu:	NA				
	filteration required and/or requested for dissolved me	tals?	No				
			110				
_	ase Sample Matrix the sample have more than one phase, i.e., multiphase	. 9	3.7				
			No				
27. II yes	s, does the COC specify which phase(s) is to be analyz	ea?	NA				
	ract Laboratory						
	amples required to get sent to a subcontract laboratory		No				
29. Was a	a subcontract laboratory specified by the client and if s	so who?	NA	Subcontract Lab	: NA		
Client I	<u>nstruction</u>						
							1

Date

Signature of client authorizing changes to the COC or sample disposition.

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: Spill Sampling

Work Order: E108107

Job Number: 06094-0177

Received: 8/27/2021

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 9/3/21

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: 9/3/21

Kevin Smaka PO Box 420 Farmington, NM 87499

Project Name: Spill Sampling

Workorder: E108107

Date Received: 8/27/2021 9:53:00AM

Kevin Smaka,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/27/2021 9:53:00AM, under the Project Name: Spill Sampling.

The analytical test results summarized in this report with the Project Name: Spill Sampling 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

West Texas Midland/Odessa Area Tom Brown

Technical Representative Cell: 832-444-7704

tbrown@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

### Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	5
Sample Data	6
Poles 1	6
Poles 2	7
Poles 3	8
Moncrief 1	9
Moncrief 2	10
Moncrief 3	11
Ross 1	12
Ross 2	13
Ross 3	14
Ross 4	15
Ross 5	16
Ross 6	17
January 1	18
January 2	19
January 3	20
January 4	21
Anabel N1	22
Anabel N2	23
Anabel S1	24
Anabel S2	25

### Table of Contents (continued)

	Anabel B1	26
	Anabel B2	27
	Anabel E1	28
	Anabel W1	29
	Anabel Pile 1	30
	Anabel Pile 2	31
	Anabel Pile 3	32
	Anabel Pile 4	33
	Anabel Pile 5	34
Q	C Summary Data	35
	QC - Volatile Organics by EPA 8021B	35
	QC - Nonhalogenated Organics by EPA 8015D - GRO	37
	QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	39
	QC - Anions by EPA 300.0/9056A	42
D	efinitions and Notes	44
С	hain of Custody etc.	45

### Sample Summary

Dugan Production Corp.	Project Name:	Spill Sampling	Reported:
PO Box 420	Project Number:	06094-0177	Reporteu.
Farmington NM, 87499	Project Manager:	Kevin Smaka	09/03/21 15:12

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Poles 1	E108107-01A	Soil	08/26/21	08/27/21	Glass Jar, 4 oz.
Poles 2	E108107-02A	Soil	08/26/21	08/27/21	Glass Jar, 4 oz.
Poles 3	E108107-03A	Soil	08/26/21	08/27/21	Glass Jar, 4 oz.
Moncrief 1	E108107-04A	Soil	08/26/21	08/27/21	Glass Jar, 4 oz.
Moncrief 2	E108107-05A	Soil	08/26/21	08/27/21	Glass Jar, 4 oz.
Moncrief 3	E108107-06A	Soil	08/26/21	08/27/21	Glass Jar, 4 oz.
Ross 1	E108107-07A	Soil	08/26/21	08/27/21	Glass Jar, 4 oz.
Ross 2	E108107-08A	Soil	08/26/21	08/27/21	Glass Jar, 4 oz.
Ross 3	E108107-09A	Soil	08/26/21	08/27/21	Glass Jar, 4 oz.
Ross 4	E108107-10A	Soil	08/26/21	08/27/21	Glass Jar, 4 oz.
Ross 5	E108107-11A	Soil	08/26/21	08/27/21	Glass Jar, 4 oz.
Ross 6	E108107-12A	Soil	08/26/21	08/27/21	Glass Jar, 4 oz.
January 1	E108107-13A	Soil	08/26/21	08/27/21	Glass Jar, 4 oz.
January 2	E108107-14A	Soil	08/26/21	08/27/21	Glass Jar, 4 oz.
January 3	E108107-15A	Soil	08/26/21	08/27/21	Glass Jar, 4 oz.
January 4	E108107-16A	Soil	08/26/21	08/27/21	Glass Jar, 4 oz.
Anabel N1	E108107-17A	Soil	08/26/21	08/27/21	Glass Jar, 4 oz.
Anabel N2	E108107-18A	Soil	08/26/21	08/27/21	Glass Jar, 4 oz.
Anabel S1	E108107-19A	Soil	08/26/21	08/27/21	Glass Jar, 4 oz.
Anabel S2	E108107-20A	Soil	08/26/21	08/27/21	Glass Jar, 4 oz.
Anabel B1	E108107-21A	Soil	08/26/21	08/27/21	Glass Jar, 4 oz.
Anabel B2	E108107-22A	Soil	08/26/21	08/27/21	Glass Jar, 4 oz.
Anabel E1	E108107-23A	Soil	08/26/21	08/27/21	Glass Jar, 4 oz.
Anabel W1	E108107-24A	Soil	08/26/21	08/27/21	Glass Jar, 4 oz.
Anabel Pile 1	E108107-25A	Soil	08/26/21	08/27/21	Glass Jar, 4 oz.
Anabel Pile 2	E108107-26A	Soil	08/26/21	08/27/21	Glass Jar, 4 oz.
Anabel Pile 3	E108107-27A	Soil	08/26/21	08/27/21	Glass Jar, 4 oz.
Anabel Pile 4	E108107-28A	Soil	08/26/21	08/27/21	Glass Jar, 4 oz.
Anabel Pile 5	E108107-29A	Soil	08/26/21	08/27/21	Glass Jar, 4 oz.

Dugan Production Corp.	Project Name:	Spill Sampling	
PO Box 420	Project Number:	06094-0177	Reported:
Farmington NM, 87499	Project Manager:	Kevin Smaka	9/3/2021 3:12:17PM

#### Poles 1 E108107-01

	E100107-01				
Result	Reporting Limit		n Prepared	Analyzed	Notes
mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2136007
ND	0.0250	1	08/30/21	09/01/21	
ND	0.0250	1	08/30/21	09/01/21	
ND	0.0250	1	08/30/21	09/01/21	
ND	0.0250	1	08/30/21	09/01/21	
ND	0.0500	1	08/30/21	09/01/21	
ND	0.0250	1	08/30/21	09/01/21	
	98.4 %	70-130	08/30/21	09/01/21	
mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2136007
ND	20.0	1	08/30/21	09/01/21	
	96.5 %	70-130	08/30/21	09/01/21	
mg/kg	mg/kg	Ana	alyst: JL		Batch: 2136031
38.2	25.0	1	09/02/21	09/02/21	
66.2	50.0	1	09/02/21	09/02/21	
	96.5 %	50-200	09/02/21	09/02/21	
mg/kg	mg/kg	Ana	alyst: AC		Batch: 2136008
554	40.0	2	08/30/21	08/31/21	
	mg/kg ND ND ND ND ND ND ND ND Mg/kg ND mg/kg 38.2 66.2	Result         Limit           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           MD         0.0250           MD         0.0250           MD         20.0250           98.4 %         mg/kg           MB/kg         mg/kg           MB/kg         mg/kg           38.2         25.0           66.2         50.0           96.5 %         mg/kg           mg/kg         mg/kg	mg/kg         mg/kg         Anal           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           mg/kg         mg/kg         Anal           ND         20.0         1           96.5 %         70-130         70-130           mg/kg         mg/kg         Anal           38.2         25.0         1           66.2         50.0         1           96.5 %         50-200           mg/kg         mg/kg         Anal	Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: RKS           ND         0.0250         1         08/30/21           ND         0.0250         1         08/30/21           ND         0.0250         1         08/30/21           ND         0.0500         1         08/30/21           ND         0.0250         1         08/30/21           ND         0.0250         1         08/30/21           mg/kg         mg/kg         Analyst: RKS           ND         20.0         1         08/30/21           mg/kg         mg/kg         Analyst: JL           mg/kg         mg/kg         Analyst: JL           38.2         25.0         1         09/02/21           66.2         50.0         1         09/02/21           mg/kg         mg/kg         Analyst: JL         09/02/21	Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: RKS           ND         0.0250         1         08/30/21         09/01/21           ND         0.0250         1         08/30/21         09/01/21           ND         0.0250         1         08/30/21         09/01/21           ND         0.0500         1         08/30/21         09/01/21           ND         0.0250         1         08/30/21         09/01/21           ND         0.0250         1         08/30/21         09/01/21           mg/kg         mg/kg         Analyst: RKS           ND         20.0         1         08/30/21         09/01/21           mg/kg         mg/kg         Analyst: RKS           ND         20.0         1         08/30/21         09/01/21           mg/kg         mg/kg         Analyst: JL         09/01/21           mg/kg         mg/kg         Analyst: JL         09/02/21         09/02/21           96.5 %         50.0         1         09/02/21         09/02/21           mg/kg         mg/kg         Analyst: AC         09/02/21         09/02/21



Dugan Production Corp.	Project Name:	Spill Sampling	
PO Box 420	Project Number:	06094-0177	Reported:
Farmington NM, 87499	Project Manager:	Kevin Smaka	9/3/2021 3:12:17PM

#### Poles 2 E108107-02

	L100107 02				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Anal	lyst: RKS		Batch: 2136007
ND	0.0250	1	08/30/21	09/01/21	
ND	0.0250	1	08/30/21	09/01/21	
0.0418	0.0250	1	08/30/21	09/01/21	
ND	0.0250	1	08/30/21	09/01/21	
ND	0.0500	1	08/30/21	09/01/21	
ND	0.0250	1	08/30/21	09/01/21	
	98.2 %	70-130	08/30/21	09/01/21	
mg/kg	mg/kg	Anal	lyst: RKS		Batch: 2136007
ND	20.0	1	08/30/21	09/01/21	
	89.6 %	70-130	08/30/21	09/01/21	
mg/kg	mg/kg	Anal	lyst: JL		Batch: 2136031
65.9	25.0	1	09/02/21	09/02/21	
99.7	50.0	1	09/02/21	09/02/21	
	107 %	50-200	09/02/21	09/02/21	
mg/kg	mg/kg	Anal	lyst: AC		Batch: 2136008
581	20.0	1	08/30/21	08/31/21	
	mg/kg ND ND 0.0418 ND ND ND Mg/kg ND mg/kg 65.9 99.7	Result         Limit           mg/kg         mg/kg           ND         0.0250           ND         0.0250           0.0418         0.0250           ND         0.0500           ND         0.0250           MD         0.0250           MD         0.0250           MD         20.0250           89.6 %         mg/kg           mg/kg         mg/kg           65.9         25.0           99.7         50.0           107 %         mg/kg           mg/kg         mg/kg	mg/kg         mg/kg         Anal           ND         0.0250         1           ND         0.0250         1           0.0418         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           98.2 %         70-130           mg/kg         mg/kg         Anal           ND         20.0         1           89.6 %         70-130         1           mg/kg         mg/kg         Anal           65.9         25.0         1           99.7         50.0         1           107 %         50-200           mg/kg         Mg/kg         Anal	Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: RKS           ND         0.0250         1         08/30/21           ND         0.0250         1         08/30/21           0.0418         0.0250         1         08/30/21           ND         0.0250         1         08/30/21           ND         0.0500         1         08/30/21           ND         0.0250         1         08/30/21           mg/kg         mg/kg         Analyst: RKS           ND         20.0         1         08/30/21           mg/kg         mg/kg         Analyst: JL           mg/kg         mg/kg         Analyst: JL           65.9         25.0         1         09/02/21           99.7         50.0         1         09/02/21           mg/kg         mg/kg         Analyst: AC	Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: RKS           ND         0.0250         1         08/30/21         09/01/21           ND         0.0250         1         08/30/21         09/01/21           0.0418         0.0250         1         08/30/21         09/01/21           ND         0.0250         1         08/30/21         09/01/21           ND         0.0500         1         08/30/21         09/01/21           ND         0.0250         1         08/30/21         09/01/21           mg/kg         mg/kg         Analyst: RKS           ND         20.0         1         08/30/21         09/01/21           mg/kg         mg/kg         Analyst: RKS           ND         20.0         1         08/30/21         09/01/21           mg/kg         mg/kg         Analyst: JL         09/01/21           mg/kg         mg/kg         Analyst: JL         09/02/21         09/02/21           mg/kg         mg/kg         Analyst: AC         09/02/21         09/02/21

Dugan Production Corp.	Project Name:	Spill Sampling	
PO Box 420	Project Number:	06094-0177	Reported:
Farmington NM, 87499	Project Manager:	Kevin Smaka	9/3/2021 3:12:17PM

#### Poles 3 E108107-03

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: RKS		Batch: 2136007
Benzene	ND	0.0250	1	08/30/21	09/01/21	
Ethylbenzene	ND	0.0250	1	08/30/21	09/01/21	
Toluene	ND	0.0250	1	08/30/21	09/01/21	
o-Xylene	ND	0.0250	1	08/30/21	09/01/21	
p,m-Xylene	ND	0.0500	1	08/30/21	09/01/21	
Total Xylenes	ND	0.0250	1	08/30/21	09/01/21	
Surrogate: 4-Bromochlorobenzene-PID		98.3 %	70-130	08/30/21	09/01/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	Analyst: RKS		Batch: 2136007
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/21	09/01/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.6 %	70-130	08/30/21	09/01/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: JL		Batch: 2136031
Diesel Range Organics (C10-C28)	ND	25.0	1	09/02/21	09/02/21	
Oil Range Organics (C28-C36)	60.2	50.0	1	09/02/21	09/02/21	
Surrogate: n-Nonane		102 %	50-200	09/02/21	09/02/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: AC		Batch: 2136008
Chloride	2100	40.0	2	08/30/21	08/31/21	

Dugan Production Corp.	Project Name:	Spill Sampling	
PO Box 420	Project Number:	06094-0177	Reported:
Farmington NM, 87499	Project Manager:	Kevin Smaka	9/3/2021 3:12:17PM

#### Moncrief 1 E108107-04

		2100107 01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: RKS		Batch: 2136007
Benzene	ND	0.0250	1	08/30/21	09/01/21	
Ethylbenzene	ND	0.0250	1	08/30/21	09/01/21	
oluene	ND	0.0250	1	08/30/21	09/01/21	
-Xylene	ND	0.0250	1	08/30/21	09/01/21	
,m-Xylene	ND	0.0500	1	08/30/21	09/01/21	
Total Xylenes	ND	0.0250	1	08/30/21	09/01/21	
urrogate: 4-Bromochlorobenzene-PID		102 %	70-130	08/30/21	09/01/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2136007
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/21	09/01/21	
urrogate: 1-Chloro-4-fluorobenzene-FID		89.6 %	70-130	08/30/21	09/01/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: JL		Batch: 2136031
Diesel Range Organics (C10-C28)	ND	25.0	1	09/02/21	09/02/21	
Dil Range Organics (C28-C36)	ND	50.0	1	09/02/21	09/02/21	
urrogate: n-Nonane		116 %	50-200	09/02/21	09/02/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: AC		Batch: 2136008
Chloride	ND	20.0	1	08/30/21	08/31/21	

Dugan Production Corp.	Project Name:	Spill Sampling	
PO Box 420	Project Number:	06094-0177	Reported:
Farmington NM, 87499	Project Manager:	Kevin Smaka	9/3/2021 3:12:17PM

#### Moncrief 2 E108107-05

Result	Reporting Limit	Dilution			
		Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analy	st: RKS	· · · · · · · · · · · · · · · · · · ·	Batch: 2136007
ND	0.0250	1	08/30/21	09/01/21	
ND	0.0250	1	08/30/21	09/01/21	
ND	0.0250	1	08/30/21	09/01/21	
ND	0.0250	1	08/30/21	09/01/21	
ND	0.0500	1	08/30/21	09/01/21	
ND	0.0250	1	08/30/21	09/01/21	
	106 %	70-130	08/30/21	09/01/21	
mg/kg	mg/kg	Analy	Analyst: RKS		Batch: 2136007
ND	20.0	1	08/30/21	09/01/21	
	89.4 %	70-130	08/30/21	09/01/21	
mg/kg	mg/kg	Analy	st: JL		Batch: 2136031
ND	25.0	1	09/02/21	09/02/21	
ND	50.0	1	09/02/21	09/02/21	
	112 %	50-200	09/02/21	09/02/21	
mg/kg	mg/kg	Analy	st: AC		Batch: 2136008
36.3	20.0	1	08/30/21	08/31/21	
	ND ND ND ND Mg/kg ND mg/kg ND mg/kg	ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           ND         0.0250           I06 %         mg/kg           MD         20.0           89.4 %         mg/kg           ND         25.0           ND         50.0           I12 %         mg/kg           mg/kg         mg/kg	ND 0.0250 1  ND 0.0500 1  ND 0.0250 1  ND 0.0250 1  ND 0.0250 1  ND 0.0250 1   ND 0.0250 1  IO6 % 70-130  mg/kg mg/kg Analy  ND 20.0 1  89.4 % 70-130  mg/kg mg/kg Analy  ND 50.0 1  II2 % 50-200  mg/kg mg/kg Analy	ND         0.0250         1         08/30/21           ND         0.0250         1         08/30/21           ND         0.0250         1         08/30/21           ND         0.0250         1         08/30/21           ND         0.0500         1         08/30/21           ND         0.0250         1         08/30/21           mg/kg         mg/kg         Analyst: RKS           ND         20.0         1         08/30/21           mg/kg         mg/kg         Analyst: JL           ND         25.0         1         09/02/21           ND         50.0         1         09/02/21           ND         50.0         1         09/02/21           mg/kg         mg/kg         Analyst: AC	ND 0.0250 1 08/30/21 09/01/21 ND 0.0500 1 08/30/21 09/01/21 ND 0.0250 1 08/30/21 09/01/21 ND 0.0250 1 08/30/21 09/01/21  MD 0.0250 1 08/30/21 09/01/21  MD 0.0250 1 08/30/21 09/01/21  MB/kg mg/kg Analyst: RKS  ND 20.0 1 08/30/21 09/01/21  MB/kg mg/kg Analyst: JL  ND 25.0 1 09/02/21 09/02/21  ND 50.0 1 09/02/21 09/02/21  MB/kg mg/kg Analyst: AC



Dugan Production Corp.	Project Name:	Spill Sampling	
PO Box 420	Project Number:	06094-0177	Reported:
Farmington NM, 87499	Project Manager:	Kevin Smaka	9/3/2021 3:12:17PM

#### Moncrief 3 E108107-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: RKS		Batch: 2136007
Benzene	ND	0.0250	1	08/30/21	09/01/21	
Ethylbenzene	ND	0.0250	1	08/30/21	09/01/21	
Toluene	ND	0.0250	1	08/30/21	09/01/21	
o-Xylene	ND	0.0250	1	08/30/21	09/01/21	
p,m-Xylene	ND	0.0500	1	08/30/21	09/01/21	
Total Xylenes	ND	0.0250	1	08/30/21	09/01/21	
Surrogate: 4-Bromochlorobenzene-PID		104 %	70-130	08/30/21	09/01/21	
Nonhalogenated Organics by EPA 8015D - GRO	GRO mg/kg mg/kg Analyst: RKS			Batch: 2136007		
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/21	09/01/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.1 %	70-130	08/30/21	09/01/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: JL		Batch: 2136031
Diesel Range Organics (C10-C28)	ND	25.0	1	09/02/21	09/02/21	
Oil Range Organics (C28-C36)	ND	50.0	1	09/02/21	09/02/21	
Surrogate: n-Nonane		105 %	50-200	09/02/21	09/02/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: AC		Batch: 2136008
Chloride	74.7	40.0	2	08/30/21	08/31/21	

Dugan Production Corp.	Project Name:	Spill Sampling	
PO Box 420	Project Number:	06094-0177	Reported:
Farmington NM, 87499	Project Manager:	Kevin Smaka	9/3/2021 3:12:17PM

#### Ross 1

081	

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2136007
Benzene	ND	0.0250	1	08/30/21	09/01/21	
Ethylbenzene	ND	0.0250	1	08/30/21	09/01/21	
Toluene	ND	0.0250	1	08/30/21	09/01/21	
o-Xylene	ND	0.0250	1	08/30/21	09/01/21	
o,m-Xylene	ND	0.0500	1	08/30/21	09/01/21	
Total Xylenes	ND	0.0250	1	08/30/21	09/01/21	
Surrogate: 4-Bromochlorobenzene-PID		99.4 %	70-130	08/30/21	09/01/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2136007
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/21	09/01/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.0 %	70-130	08/30/21	09/01/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: JL		Batch: 2136031
Diesel Range Organics (C10-C28)	ND	25.0	1	09/02/21	09/02/21	
Oil Range Organics (C28-C36)	ND	50.0	1	09/02/21	09/02/21	
Surrogate: n-Nonane		108 %	50-200	09/02/21	09/02/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: AC		Batch: 2136008
	ND	20.0		08/30/21	08/31/21	



Dugan Production Corp.	Project Name:	Spill Sampling	
PO Box 420	Project Number:	06094-0177	Reported:
Farmington NM, 87499	Project Manager:	Kevin Smaka	9/3/2021 3:12:17PM

#### Ross 2

#### E108107-08

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	ılyst: RKS		Batch: 2136007
Benzene	ND	0.0250	1	08/30/21	09/01/21	
Ethylbenzene	ND	0.0250	1	08/30/21	09/01/21	
Toluene	ND	0.0250	1	08/30/21	09/01/21	
o-Xylene	ND	0.0250	1	08/30/21	09/01/21	
p,m-Xylene	ND	0.0500	1	08/30/21	09/01/21	
Total Xylenes	ND	0.0250	1	08/30/21	09/01/21	
Surrogate: 4-Bromochlorobenzene-PID		96.9 %	70-130	08/30/21	09/01/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	Analyst: RKS		Batch: 2136007
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/21	09/01/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.7 %	70-130	08/30/21	09/01/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: JL		Batch: 2136031
Diesel Range Organics (C10-C28)	ND	25.0	1	09/02/21	09/02/21	
Oil Range Organics (C28-C36)	ND	50.0	1	09/02/21	09/02/21	
Surrogate: n-Nonane		109 %	50-200	09/02/21	09/02/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	ılyst: AC		Batch: 2136008
· · · · · · · · · · · · · · · · · · ·	ND	20.0		08/30/21	08/31/21	•



Dugan Production Corp.	Project Name:	Spill Sampling	
PO Box 420	Project Number:	06094-0177	Reported:
Farmington NM, 87499	Project Manager:	Kevin Smaka	9/3/2021 3:12:17PM

#### Ross 3

#### E108107-09

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2136007
Benzene	ND	0.0250	1	08/30/21	09/01/21	
Ethylbenzene	ND	0.0250	1	08/30/21	09/01/21	
Toluene	ND	0.0250	1	08/30/21	09/01/21	
o-Xylene	ND	0.0250	1	08/30/21	09/01/21	
p,m-Xylene	ND	0.0500	1	08/30/21	09/01/21	
Total Xylenes	ND	0.0250	1	08/30/21	09/01/21	
Surrogate: 4-Bromochlorobenzene-PID		98.9 %	70-130	08/30/21	09/01/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2136007
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/21	09/01/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.5 %	70-130	08/30/21	09/01/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: JL		Batch: 2136031
Diesel Range Organics (C10-C28)	ND	25.0	1	09/02/21	09/02/21	
Oil Range Organics (C28-C36)	63.6	50.0	1	09/02/21	09/02/21	
Surrogate: n-Nonane		98.4 %	50-200	09/02/21	09/02/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: AC		Batch: 2136008



Dugan Production Corp.	Project Name:	Spill Sampling	
PO Box 420	Project Number:	06094-0177	Reported:
Farmington NM, 87499	Project Manager:	Kevin Smaka	9/3/2021 3:12:17PM

#### Ross 4

E108107-10						
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2136007
Benzene	ND	0.0250	1	08/30/21	09/01/21	
Ethylbenzene	ND	0.0250	1	08/30/21	09/01/21	
Toluene	ND	0.0250	1	08/30/21	09/01/21	
o-Xylene	ND	0.0250	1	08/30/21	09/01/21	
p,m-Xylene	ND	0.0500	1	08/30/21	09/01/21	
Total Xylenes	ND	0.0250	1	08/30/21	09/01/21	
Surrogate: 4-Bromochlorobenzene-PID		95.0 %	70-130	08/30/21	09/01/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2136007
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/21	09/01/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.2 %	70-130	08/30/21	09/01/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: JL		Batch: 2136031
Diesel Range Organics (C10-C28)	ND	25.0	1	09/02/21	09/02/21	
Oil Range Organics (C28-C36)	ND	50.0	1	09/02/21	09/02/21	
Surrogate: n-Nonane		111 %	50-200	09/02/21	09/02/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: AC		Batch: 2136008
Chloride	ND	20.0	1	08/30/21	08/31/21	



Dugan Production Corp.	Project Name:	Spill Sampling	
PO Box 420	Project Number:	06094-0177	Reported:
Farmington NM, 87499	Project Manager:	Kevin Smaka	9/3/2021 3:12:17PM

#### Ross 5

E1081	07-	11
-------	-----	----

	D .:				
D t		D.1. (1	D 1		NI 4
Kesult	Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2136007
ND	0.0250	1	08/30/21	09/01/21	
ND	0.0250	1	08/30/21	09/01/21	
ND	0.0250	1	08/30/21	09/01/21	
ND	0.0250	1	08/30/21	09/01/21	
ND	0.0500	1	08/30/21	09/01/21	
ND	0.0250	1	08/30/21	09/01/21	
	106 %	70-130	08/30/21	09/01/21	
mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2136007
ND	20.0	1	08/30/21	09/01/21	
	90.0 %	70-130	08/30/21	09/01/21	
mg/kg	mg/kg	Ana	lyst: JL		Batch: 2136031
ND	25.0	1	09/02/21	09/03/21	
ND	50.0	1	09/02/21	09/03/21	
	110 %	50-200	09/02/21	09/03/21	
mg/kg	mg/kg	Anal	lyst: AC		Batch: 2136008
ND	20.0		08/30/21	08/31/21	
	ND Mg/kg ND	mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           ND         0.0250           ND         0.0250           MD         0.0250           MB/kg         mg/kg           MB/kg         mg/kg           ND         20.0           MB/kg         mg/kg           ND         25.0           ND         50.0           110 %	Result         Limit         Dilution           mg/kg         mg/kg         Anal           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           ND         70-130           mg/kg         mg/kg         Anal           ND         20.0         1           mg/kg         mg/kg         Anal           ND         25.0         1           ND         50.0         1           110 %         50-200	Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: RKS           ND         0.0250         1         08/30/21           ND         0.0250         1         08/30/21           ND         0.0250         1         08/30/21           ND         0.0250         1         08/30/21           ND         0.0500         1         08/30/21           ND         0.0250         1         08/30/21           mg/kg         mg/kg         Analyst: RKS           ND         20.0         1         08/30/21           mg/kg         mg/kg         Analyst: JL           ND         25.0         1         09/02/21           ND         50.0         1         09/02/21           ND         50.0         1         09/02/21	Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: RKS           ND         0.0250         1         08/30/21         09/01/21           ND         0.0250         1         08/30/21         09/01/21           ND         0.0250         1         08/30/21         09/01/21           ND         0.0500         1         08/30/21         09/01/21           ND         0.0250         1         08/30/21         09/01/21           ND         0.0250         1         08/30/21         09/01/21           mg/kg         70-130         08/30/21         09/01/21           mg/kg         mg/kg         Analyst: RKS           ND         20.0         1         08/30/21         09/01/21           mg/kg         mg/kg         Analyst: JL         ND         09/01/21           ND         25.0         1         09/02/21         09/03/21           ND         50.0         1         09/02/21         09/03/21           ND         50.0         1         09/02/21         09/03/21



Dugan Production Corp.	Project Name:	Spill Sampling	
PO Box 420	Project Number:	06094-0177	Reported:
Farmington NM, 87499	Project Manager:	Kevin Smaka	9/3/2021 3:12:17PM

#### Ross 6

#### E108107-12

	ъ .:				
D 1:		D'1 - '	ъ .		NT .
Result	Limit	Dilution	n Prepared	Analyzed	Notes
mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2136007
ND	0.0250	1	08/30/21	09/01/21	
ND	0.0250	1	08/30/21	09/01/21	
ND	0.0250	1	08/30/21	09/01/21	
ND	0.0250	1	08/30/21	09/01/21	
ND	0.0500	1	08/30/21	09/01/21	
ND	0.0250	1	08/30/21	09/01/21	
	103 %	70-130	08/30/21	09/01/21	
mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2136007
ND	20.0	1	08/30/21	09/01/21	
	89.7 %	70-130	08/30/21	09/01/21	
mg/kg	mg/kg	Ana	alyst: JL		Batch: 2136030
ND	25.0	1	09/02/21	09/03/21	
ND	50.0	1	09/02/21	09/03/21	
	105 %	50-200	09/02/21	09/03/21	
mg/kg	mg/kg	Ana	alyst: AC		Batch: 2136008
		_			
	ND Mg/kg ND	mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           MD         0.0250           MD         20.0250           89.7 %         mg/kg           MD         25.0           ND         50.0           105 %	Result         Limit         Dilution           mg/kg         mg/kg         And           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           ND         0.0250         1           mg/kg         mg/kg         And           ND         20.0         1           89.7 %         70-130         70-130           mg/kg         mg/kg         And           ND         25.0         1           ND         50.0         1           105 %         50-200	Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: RKS           ND         0.0250         1         08/30/21           ND         0.0250         1         08/30/21           ND         0.0250         1         08/30/21           ND         0.0250         1         08/30/21           ND         0.0500         1         08/30/21           ND         0.0250         1         08/30/21           mg/kg         mg/kg         Analyst: RKS           ND         20.0         1         08/30/21           89.7 %         70-130         08/30/21           mg/kg         mg/kg         Analyst: JL           ND         25.0         1         09/02/21           ND         50.0         1         09/02/21           ND         50.0         1         09/02/21	Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: RKS           ND         0.0250         1         08/30/21         09/01/21           ND         0.0500         1         08/30/21         09/01/21           ND         0.0250         1         08/30/21         09/01/21           mg/kg         mg/kg         Analyst: RKS           ND         20.0         1         08/30/21         09/01/21           89.7 %         70-130         08/30/21         09/01/21           mg/kg         mg/kg         Analyst: JL           ND         25.0         1         09/02/21         09/03/21           ND         50.0         1         09/02/21         09/03/21           ND         50.0         1         09/02/21         09/03/21



Dugan Production Corp.	Project Name:	Spill Sampling	
PO Box 420	Project Number:	06094-0177	Reported:
Farmington NM, 87499	Project Manager:	Kevin Smaka	9/3/2021 3:12:17PM

#### January 1 E108107-13

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: RKS		Batch: 2136007
Benzene	ND	0.0250	1	08/30/21	09/01/21	
Ethylbenzene	ND	0.0250	1	08/30/21	09/01/21	
Toluene	ND	0.0250	1	08/30/21	09/01/21	
o-Xylene	ND	0.0250	1	08/30/21	09/01/21	
p,m-Xylene	ND	0.0500	1	08/30/21	09/01/21	
Total Xylenes	ND	0.0250	1	08/30/21	09/01/21	
Surrogate: 4-Bromochlorobenzene-PID		95.8 %	70-130	08/30/21	09/01/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: RKS		Batch: 2136007
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/21	09/01/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.4 %	70-130	08/30/21	09/01/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: JL		Batch: 2136030
Diesel Range Organics (C10-C28)	ND	25.0	1	09/02/21	09/03/21	
Oil Range Organics (C28-C36)	54.5	50.0	1	09/02/21	09/03/21	
Surrogate: n-Nonane		172 %	50-200	09/02/21	09/03/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: AC		Batch: 2136008
Chloride	ND	20.0	1	08/30/21	08/31/21	



Dugan Production Corp.	Project Name:	Spill Sampling	
PO Box 420	Project Number:	06094-0177	Reported:
Farmington NM, 87499	Project Manager:	Kevin Smaka	9/3/2021 3:12:17PM

#### January 2 E108107-14

		E100107-14				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Analyte	Kesuit	Lillit	Dilution	Frepared	Allalyzeu	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	mg/kg Analyst: RKS		Batch: 2136007	
Benzene	ND	0.0250	1	08/30/21	09/02/21	
Ethylbenzene	ND	0.0250	1	08/30/21	09/02/21	
Toluene	ND	0.0250	1	08/30/21	09/02/21	
o-Xylene	ND	0.0250	1	08/30/21	09/02/21	
p,m-Xylene	ND	0.0500	1	08/30/21	09/02/21	
Total Xylenes	ND	0.0250	1	08/30/21	09/02/21	
Surrogate: 4-Bromochlorobenzene-PID		97.1 %	70-130	08/30/21	09/02/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	Analyst: RKS		Batch: 2136007
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/21	09/02/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.0 %	70-130	08/30/21	09/02/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: JL		Batch: 2136030
Diesel Range Organics (C10-C28)	ND	25.0	1	09/02/21	09/03/21	
Oil Range Organics (C28-C36)	50.9	50.0	1	09/02/21	09/03/21	
Surrogate: n-Nonane		175 %	50-200	09/02/21	09/03/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: AC		Batch: 2136008
Chloride	ND	20.0	1	08/30/21	08/31/21	·



Dugan Production Corp.	Project Name:	Spill Sampling	
PO Box 420	Project Number:	06094-0177	Reported:
Farmington NM, 87499	Project Manager:	Kevin Smaka	9/3/2021 3:12:17PM

### January 3 E108107-15

Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg mg/kg Analyst: RKS			Batch: 2136007		
ND	0.0250	1	08/30/21	09/02/21	
ND	0.0250	1	08/30/21	09/02/21	
ND	0.0250	1	08/30/21	09/02/21	
ND	0.0250	1	08/30/21	09/02/21	
ND	0.0500	1	08/30/21	09/02/21	
ND	0.0250	1	08/30/21	09/02/21	
	107 %	70-130	08/30/21	09/02/21	
mg/kg	mg/kg mg/kg Analyst: RKS			Batch: 2136007	
ND	20.0	1	08/30/21	09/02/21	
	90.7 %	70-130	08/30/21	09/02/21	
mg/kg	mg/kg	Analy	yst: JL		Batch: 2136030
ND	25.0	1	09/02/21	09/03/21	
62.8	50.0	1	09/02/21	09/03/21	
	185 %	50-200	09/02/21	09/03/21	
mg/kg	mg/kg	Analy	yst: AC		Batch: 2136008
ND	20.0	1	08/30/21	08/31/21	·
	mg/kg ND ND ND ND ND ND ND ND ND O Mg/kg ND Mg/kg ND Mg/kg	mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           ND         0.0250           MD         20.0250           MD         20.0           90.7 %         mg/kg           mg/kg         mg/kg           ND         25.0           62.8         50.0           185 %         mg/kg           mg/kg         mg/kg	Result         Limit         Dilution           mg/kg         mg/kg         Analy           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           MD         0.0250         1           MD         20.0250         1           MB/kg         mg/kg         Analy           ND         20.0         1           MB/kg         mg/kg         Analy           ND         25.0         1           62.8         50.0         1           MB/kg         mg/kg         Analy	Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: RKS           ND         0.0250         1         08/30/21           ND         0.0250         1         08/30/21           ND         0.0250         1         08/30/21           ND         0.0250         1         08/30/21           ND         0.0500         1         08/30/21           ND         0.0250         1         08/30/21           mg/kg         mg/kg         Analyst: RKS           ND         20.0         1         08/30/21           mg/kg         mg/kg         Analyst: JL           ND         25.0         1         09/02/21           MD         25.0         1         09/02/21           62.8         50.0         1         09/02/21           mg/kg         mg/kg         Analyst: AC	Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: RKS           ND         0.0250         1         08/30/21         09/02/21           ND         0.0250         1         08/30/21         09/02/21           ND         0.0250         1         08/30/21         09/02/21           ND         0.0500         1         08/30/21         09/02/21           ND         0.0250         1         08/30/21         09/02/21           ND         0.0250         1         08/30/21         09/02/21           mg/kg         mg/kg         Analyst: RKS           ND         20.0         1         08/30/21         09/02/21           mg/kg         mg/kg         Analyst: RKS           ND         20.0         1         08/30/21         09/02/21           mg/kg         mg/kg         Analyst: JL           ND         25.0         1         09/02/21         09/03/21           62.8         50.0         1         09/02/21         09/03/21           mg/kg         mg/kg         Analyst: AC         09/03/21

Dugan Production Corp.	Project Name:	Spill Sampling	
PO Box 420	Project Number:	06094-0177	Reported:
Farmington NM, 87499	Project Manager:	Kevin Smaka	9/3/2021 3:12:17PM

### January 4 E108107-16

		2100107 10				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg mg/kg Analyst: RKS			Batch: 2136007		
Benzene	ND	0.0250	1	08/30/21	09/02/21	
Ethylbenzene	ND	0.0250	1	08/30/21	09/02/21	
Toluene	ND	0.0250	1	08/30/21	09/02/21	
o-Xylene	ND	0.0250	1	08/30/21	09/02/21	
p,m-Xylene	ND	0.0500	1	08/30/21	09/02/21	
Total Xylenes	ND	0.0250	1	08/30/21	09/02/21	
Surrogate: 4-Bromochlorobenzene-PID		98.8 %	70-130	08/30/21	09/02/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg mg/kg		Analy	Analyst: RKS		Batch: 2136007
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/21	09/02/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.5 %	70-130	08/30/21	09/02/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	/st: JL		Batch: 2136030
Diesel Range Organics (C10-C28)	ND	25.0	1	09/02/21	09/03/21	
Oil Range Organics (C28-C36)	57.4	50.0	1	09/02/21	09/03/21	
Surrogate: n-Nonane		181 %	50-200	09/02/21	09/03/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	vst: AC		Batch: 2136008
Chloride	ND	20.0	1	08/30/21	08/31/21	

Dugan Production Corp.	Project Name:	Spill Sampling	
PO Box 420	Project Number:	06094-0177	Reported:
Farmington NM, 87499	Project Manager:	Kevin Smaka	9/3/2021 3:12:17PM

#### Anabel N1 E108107-17

	E100107-17				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
· .		•		Batch: 2136007	
ND	0.0250	1	08/30/21	09/02/21	
ND	0.0250	1	08/30/21	09/02/21	
ND	0.0250	1	08/30/21	09/02/21	
ND	0.0250	1	08/30/21	09/02/21	
ND	0.0500	1	08/30/21	09/02/21	
ND	0.0250	1	08/30/21	09/02/21	
	110 %	70-130	08/30/21	09/02/21	
mg/kg	mg/kg	Analyst: RKS			Batch: 2136007
ND	20.0	1	08/30/21	09/02/21	
	92.4 %	70-130	08/30/21	09/02/21	
mg/kg	mg/kg	Anal	yst: JL		Batch: 2136030
1160	50.0	2	09/02/21	09/03/21	
524	100	2	09/02/21	09/03/21	
	167 %	50-200	09/02/21	09/03/21	
mg/kg	mg/kg	Anal	yst: AC		Batch: 2136008
ND	20.0	1	08/30/21	08/31/21	
	mg/kg ND ND ND ND ND ND ND The state of the	Result         Reporting           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           II0 %         mg/kg           mg/kg         mg/kg           ND         20.0           92.4 %         mg/kg           mg/kg         mg/kg           1160         50.0           524         100           167 %         mg/kg           mg/kg         mg/kg	Reporting           Result         Limit         Dilution           mg/kg         mg/kg         Anal           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           ND         0.0250         1           MD         0.0250         1           MD         0.0250         1           Mg/kg         mg/kg         Anal           ND         20.0         1           92.4 %         70-130           mg/kg         mg/kg         Anal           1160         50.0         2           524         100         2           167 %         50-200           mg/kg         Mg/kg         Anal	Reporting           Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: RKS           ND         0.0250         1         08/30/21           ND         0.0250         1         08/30/21           ND         0.0250         1         08/30/21           ND         0.0250         1         08/30/21           ND         0.0500         1         08/30/21           ND         0.0250         1         08/30/21           mg/kg         mg/kg         Analyst: RKS           ND         20.0         1         08/30/21           mg/kg         mg/kg         Analyst: JL           mg/kg         mg/kg         Analyst: JL           1160         50.0         2         09/02/21           524         100         2         09/02/21           mg/kg         mg/kg         Analyst: AC	Reporting           Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: RKS           ND         0.0250         1         08/30/21         09/02/21           ND         0.0250         1         08/30/21         09/02/21           ND         0.0250         1         08/30/21         09/02/21           ND         0.0500         1         08/30/21         09/02/21           ND         0.0250         1         08/30/21         09/02/21           ND         0.0250         1         08/30/21         09/02/21           mg/kg         mg/kg         Analyst: RKS           ND         20.0         1         08/30/21         09/02/21           mg/kg         mg/kg         Analyst: RKS           ND         20.0         1         08/30/21         09/02/21           mg/kg         mg/kg         Analyst: JL           1160         50.0         2         09/02/21         09/03/21           524         100         2         09/02/21         09/03/21           mg/kg         mg/kg         Analyst: AC         09/03/21

Dugan Production Corp.	Project Name:	Spill Sampling	
PO Box 420	Project Number:	06094-0177	Reported:
Farmington NM, 87499	Project Manager:	Kevin Smaka	9/3/2021 3:12:17PM

#### Anabel N2 E108107-18

		E100107-10				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	Analyst: RKS		Batch: 2136007
Benzene	ND	0.0250	1	08/30/21	09/02/21	
Ethylbenzene	ND	0.0250	1	08/30/21	09/02/21	
Toluene	ND	0.0250	1	08/30/21	09/02/21	
p-Xylene	ND	0.0250	1	08/30/21	09/02/21	
o,m-Xylene	ND	0.0500	1	08/30/21	09/02/21	
Total Xylenes	ND	0.0250	1	08/30/21	09/02/21	
Surrogate: 4-Bromochlorobenzene-PID		110 %	70-130	08/30/21	09/02/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	Analyst: RKS		Batch: 2136007
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/21	09/02/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.8 %	70-130	08/30/21	09/02/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: JL		Batch: 2136030
Diesel Range Organics (C10-C28)	799	50.0	2	09/02/21	09/03/21	
Oil Range Organics (C28-C36)	437	100	2	09/02/21	09/03/21	
Surrogate: n-Nonane		176 %	50-200	09/02/21	09/03/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: AC		Batch: 2136008
Chloride	ND	20.0	1	08/30/21	08/31/21	

Dugan Production Corp.	Project Name:	Spill Sampling	
PO Box 420	Project Number:	06094-0177	Reported:
Farmington NM, 87499	Project Manager:	Kevin Smaka	9/3/2021 3:12:17PM

#### Anabel S1 E108107-19

		2100107 17				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	Analyst: RKS		Batch: 2136007
Benzene	ND	0.0250	1	08/30/21	09/02/21	
Ethylbenzene	ND	0.0250	1	08/30/21	09/02/21	
Toluene	ND	0.0250	1	08/30/21	09/02/21	
o-Xylene	0.0266	0.0250	1	08/30/21	09/02/21	
p,m-Xylene	ND	0.0500	1	08/30/21	09/02/21	
Total Xylenes	0.0266	0.0250	1	08/30/21	09/02/21	
Surrogate: 4-Bromochlorobenzene-PID		111 %	70-130	08/30/21	09/02/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: RKS		Batch: 2136007
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/21	09/02/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.3 %	70-130	08/30/21	09/02/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: JL		Batch: 2136030
Diesel Range Organics (C10-C28)	1740	50.0	2	09/02/21	09/03/21	
Oil Range Organics (C28-C36)	821	100	2	09/02/21	09/03/21	
Surrogate: n-Nonane		177 %	50-200	09/02/21	09/03/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: AC		Batch: 2136008
Chloride	ND	20.0	1	08/30/21	08/31/21	

Dugan Production Corp.	Project Name:	Spill Sampling	
PO Box 420	Project Number:	06094-0177	Reported:
Farmington NM, 87499	Project Manager:	Kevin Smaka	9/3/2021 3:12:17PM

#### Anabel S2 E108107-20

		E100107-20				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: RKS		Batch: 2136007
Benzene	ND	0.0250	1	08/30/21	09/02/21	
Ethylbenzene	ND	0.0250	1	08/30/21	09/02/21	
oluene	ND	0.0250	1	08/30/21	09/02/21	
-Xylene	ND	0.0250	1	08/30/21	09/02/21	
,m-Xylene	ND	0.0500	1	08/30/21	09/02/21	
Total Xylenes	ND	0.0250	1	08/30/21	09/02/21	
iurrogate: 4-Bromochlorobenzene-PID		111 %	70-130	08/30/21	09/02/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: RKS		Batch: 2136007
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/21	09/02/21	
urrogate: 1-Chloro-4-fluorobenzene-FID		91.3 %	70-130	08/30/21	09/02/21	
Onhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: JL		Batch: 2136030
Diesel Range Organics (C10-C28)	1270	50.0	2	09/02/21	09/03/21	_
Dil Range Organics (C28-C36)	622	100	2	09/02/21	09/03/21	
Surrogate: n-Nonane		162 %	50-200	09/02/21	09/03/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: AC		Batch: 2136008
Chloride	ND	20.0	1	08/30/21	08/31/21	



Dugan Production Corp.	Project Name:	Spill Sampling	
PO Box 420	Project Number:	06094-0177	Reported:
Farmington NM, 87499	Project Manager:	Kevin Smaka	9/3/2021 3:12:17PM

#### Anabel B1 E108107-21

		E100107-21				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	Analyst: RKS		Batch: 2136006
Benzene	ND	0.0250	1	08/30/21	08/30/21	
Ethylbenzene	ND	0.0250	1	08/30/21	08/30/21	
Coluene	ND	0.0250	1	08/30/21	08/30/21	
o-Xylene	ND	0.0250	1	08/30/21	08/30/21	
o,m-Xylene	ND	0.0500	1	08/30/21	08/30/21	
Total Xylenes	ND	0.0250	1	08/30/21	08/30/21	
Surrogate: 4-Bromochlorobenzene-PID		106 %	70-130	08/30/21	08/30/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: RKS		Batch: 2136006
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/21	08/30/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.5 %	70-130	08/30/21	08/30/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: JL		Batch: 2136030
Diesel Range Organics (C10-C28)	990	50.0	2	09/02/21	09/03/21	
Oil Range Organics (C28-C36)	523	100	2	09/02/21	09/03/21	
Surrogate: n-Nonane		174 %	50-200	09/02/21	09/03/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: AC		Batch: 2136012
Chloride	ND	20.0	1	08/31/21	08/31/21	



Dugan Production Corp.	Project Name:	Spill Sampling	
PO Box 420	Project Number:	06094-0177	Reported:
Farmington NM, 87499	Project Manager:	Kevin Smaka	9/3/2021 3:12:17PM

# **Anabel B2** E108107-22

	E100107 22				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Anal	yst: RKS		Batch: 2136006
ND	0.0250	1	08/30/21	08/30/21	
ND	0.0250	1	08/30/21	08/30/21	
ND	0.0250	1	08/30/21	08/30/21	
0.0625	0.0250	1	08/30/21	08/30/21	
0.0813	0.0500	1	08/30/21	08/30/21	
0.144	0.0250	1	08/30/21	08/30/21	
	104 %	70-130	08/30/21	08/30/21	
mg/kg	mg/kg	Anal	yst: RKS		Batch: 2136006
ND	20.0	1	08/30/21	08/30/21	
	100 %	70-130	08/30/21	08/30/21	
mg/kg	mg/kg	Anal	yst: JL		Batch: 2136020
1490	50.0	2	08/31/21	09/03/21	
755	100	2	08/31/21	09/03/21	
	197 %	50-200	08/31/21	09/03/21	
mg/kg	mg/kg	Anal	yst: AC		Batch: 2136012
ND	20.0	1	08/31/21	08/31/21	
	mg/kg ND ND ND 0.0625 0.0813 0.144  mg/kg ND  mg/kg 1490 755	Result         Limit           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           0.0625         0.0250           0.0813         0.0500           0.144         0.0250           IO4 %         mg/kg           ND         20.0           IO0 %         mg/kg           mg/kg         mg/kg           1490         50.0           755         100           I97 %         mg/kg           mg/kg         mg/kg	mg/kg         mg/kg         Anal           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           0.0625         0.0250         1           0.0813         0.0500         1           0.144         0.0250         1           104%         70-130           mg/kg         mg/kg         Anal           ND         20.0         1           100%         70-130         1           mg/kg         mg/kg         Anal           1490         50.0         2           755         100         2           197%         50-200           mg/kg         Mg/kg         Anal	Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: RKS           ND         0.0250         1         08/30/21           ND         0.0250         1         08/30/21           ND         0.0250         1         08/30/21           0.0625         0.0250         1         08/30/21           0.0813         0.0500         1         08/30/21           0.144         0.0250         1         08/30/21           mg/kg         mg/kg         Analyst: RKS           ND         20.0         1         08/30/21           mg/kg         mg/kg         Analyst: JL           mg/kg         mg/kg         Analyst: JL           1490         50.0         2         08/31/21           755         100         2         08/31/21           mg/kg         mg/kg         Analyst: AC	Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: RKS           ND         0.0250         1         08/30/21         08/30/21           ND         0.0250         1         08/30/21         08/30/21           ND         0.0250         1         08/30/21         08/30/21           0.0625         0.0250         1         08/30/21         08/30/21           0.0813         0.0500         1         08/30/21         08/30/21           0.144         0.0250         1         08/30/21         08/30/21           mg/kg         mg/kg         Analyst: RKS           ND         20.0         1         08/30/21         08/30/21           mg/kg         mg/kg         Analyst: JL         08/30/21         08/30/21           mg/kg         mg/kg         Analyst: JL         09/03/21           1490         50.0         2         08/31/21         09/03/21           755         100         2         08/31/21         09/03/21           mg/kg         mg/kg         Analyst: AC         09/03/21



Dugan Production Corp.	Project Name:	Spill Sampling	
PO Box 420	Project Number:	06094-0177	Reported:
Farmington NM, 87499	Project Manager:	Kevin Smaka	9/3/2021 3:12:17PM

# **Anabel E1** E108107-23

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2136006
Benzene	ND	0.0250	1	08/30/21	08/31/21	
Ethylbenzene	ND	0.0250	1	08/30/21	08/31/21	
Toluene	ND	0.0250	1	08/30/21	08/31/21	
o-Xylene	ND	0.0250	1	08/30/21	08/31/21	
p,m-Xylene	ND	0.0500	1	08/30/21	08/31/21	
Total Xylenes	ND	0.0250	1	08/30/21	08/31/21	
Surrogate: 4-Bromochlorobenzene-PID		104 %	70-130	08/30/21	08/31/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2136006
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/21	08/31/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		101 %	70-130	08/30/21	08/31/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: JL		Batch: 2136020
Diesel Range Organics (C10-C28)	847	50.0	2	08/31/21	09/03/21	
Oil Range Organics (C28-C36)	393	100	2	08/31/21	09/03/21	
Surrogate: n-Nonane		195 %	50-200	08/31/21	09/03/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: AC		Batch: 2136012
Chloride	ND	20.0	1	08/31/21	08/31/21	<del></del>



Dugan Production Corp.	Project Name:	Spill Sampling	
PO Box 420	Project Number:	06094-0177	Reported:
Farmington NM, 87499	Project Manager:	Kevin Smaka	9/3/2021 3:12:17PM

#### Anabel W1 E108107-24

		E108107-24				
Analyte	Result	Reporting Limit	Dilution	n Prepared	Analyzed	Notes
Allaryte	Kesuit	Limit	Dilution	i Trepareu	Allalyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	llyst: RKS		Batch: 2136006
Benzene	ND	0.0250	1	08/30/21	08/31/21	
Ethylbenzene	ND	0.0250	1	08/30/21	08/31/21	
Toluene	ND	0.0250	1	08/30/21	08/31/21	
o-Xylene	ND	0.0250	1	08/30/21	08/31/21	
p,m-Xylene	ND	0.0500	1	08/30/21	08/31/21	
Total Xylenes	ND	0.0250	1	08/30/21	08/31/21	
Surrogate: 4-Bromochlorobenzene-PID		103 %	70-130	08/30/21	08/31/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	ılyst: RKS		Batch: 2136006
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/21	08/31/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		100 %	70-130	08/30/21	08/31/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: JL		Batch: 2136020
Diesel Range Organics (C10-C28)	1670	50.0	2	08/31/21	09/03/21	
Oil Range Organics (C28-C36)	735	100	2	08/31/21	09/03/21	
Surrogate: n-Nonane		201 %	50-200	08/31/21	09/03/21	S3
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	ılyst: AC		Batch: 2136012
Chloride	ND	20.0	1	08/31/21	08/31/21	

Dugan Production Corp.	Project Name:	Spill Sampling	
PO Box 420	Project Number:	06094-0177	Reported:
Farmington NM, 87499	Project Manager:	Kevin Smaka	9/3/2021 3:12:17PM

#### Anabel Pile 1 E108107-25

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: RKS		Batch: 2136006
Benzene	ND	0.0250	1	08/30/21	08/31/21	
Ethylbenzene	ND	0.0250	1	08/30/21	08/31/21	
Toluene	ND	0.0250	1	08/30/21	08/31/21	
o-Xylene	ND	0.0250	1	08/30/21	08/31/21	
p,m-Xylene	ND	0.0500	1	08/30/21	08/31/21	
Total Xylenes	ND	0.0250	1	08/30/21	08/31/21	
Surrogate: 4-Bromochlorobenzene-PID		106 %	70-130	08/30/21	08/31/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: RKS		Batch: 2136006
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/21	08/31/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.1 %	70-130	08/30/21	08/31/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2136020
Diesel Range Organics (C10-C28)	855	50.0	2	08/31/21	09/03/21	_
Oil Range Organics (C28-C36)	469	100	2	08/31/21	09/03/21	
Surrogate: n-Nonane		201 %	50-200	08/31/21	09/03/21	S3
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: AC		Batch: 2136012
Chloride	ND	20.0	1	08/31/21	08/31/21	

Dugan Production Corp.	Project Name:	Spill Sampling	
PO Box 420	Project Number:	06094-0177	Reported:
Farmington NM, 87499	Project Manager:	Kevin Smaka	9/3/2021 3:12:17PM

# **Anabel Pile 2 E108107-26**

	E100107 20				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Anal	yst: RKS		Batch: 2136006
ND	0.0250	1	08/30/21	08/31/21	
ND	0.0250	1	08/30/21	08/31/21	
ND	0.0250	1	08/30/21	08/31/21	
ND	0.0250	1	08/30/21	08/31/21	
ND	0.0500	1	08/30/21	08/31/21	
ND	0.0250	1	08/30/21	08/31/21	
	106 %	70-130	08/30/21	08/31/21	
mg/kg	mg/kg	Anal	yst: RKS		Batch: 2136006
ND	20.0	1	08/30/21	08/31/21	
	102 %	70-130	08/30/21	08/31/21	
mg/kg	mg/kg	Anal	yst: JL		Batch: 2136020
735	50.0	2	08/31/21	09/03/21	
418	100	2	08/31/21	09/03/21	
	199 %	50-200	08/31/21	09/03/21	
mg/kg	mg/kg	Anal	yst: AC		Batch: 2136012
ND	20.0	1	08/31/21	09/01/21	
	mg/kg ND ND ND ND ND ND ND ND The state of t	Result         Limit           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           ND         0.0250           MD         20.0250           MD         20.0           102 %         mg/kg           mg/kg         mg/kg           735         50.0           418         100           199 %         mg/kg           mg/kg         mg/kg	mg/kg         mg/kg         Anal           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           MD         0.0250         1           MD         20.02         1           102 %         70-130           mg/kg         mg/kg         Anal           735         50.0         2           418         100         2           199 %         50-200           mg/kg         Mg/kg         Anal	Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: RKS           ND         0.0250         1         08/30/21           ND         0.0250         1         08/30/21           ND         0.0250         1         08/30/21           ND         0.0250         1         08/30/21           ND         0.0500         1         08/30/21           ND         0.0250         1         08/30/21           mg/kg         mg/kg         Analyst: RKS           ND         20.0         1         08/30/21           mg/kg         mg/kg         Analyst: JL           mg/kg         mg/kg         Analyst: JL           735         50.0         2         08/31/21           418         100         2         08/31/21           mg/kg         mg/kg         Analyst: AC	Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: RKS           ND         0.0250         1         08/30/21         08/31/21           ND         0.0250         1         08/30/21         08/31/21           ND         0.0250         1         08/30/21         08/31/21           ND         0.0500         1         08/30/21         08/31/21           ND         0.0250         1         08/30/21         08/31/21           ND         0.0250         1         08/30/21         08/31/21           mg/kg         70-130         08/30/21         08/31/21           mg/kg         mg/kg         Analyst: RKS           ND         20.0         1         08/30/21         08/31/21           mg/kg         mg/kg         Analyst: JL         08/31/21         09/03/21           mg/kg         mg/kg         Analyst: JL         09/03/21           199 %         50-200         08/31/21         09/03/21           mg/kg         mg/kg         Analyst: AC

Dugan Production Corp.	Project Name:	Spill Sampling	
PO Box 420	Project Number:	06094-0177	Reported:
Farmington NM, 87499	Project Manager:	Kevin Smaka	9/3/2021 3:12:17PM

# **Anabel Pile 3 E108107-27**

		E100107-27				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: RKS		Batch: 2136006
Benzene	ND	0.0250	1	08/30/21	08/31/21	
Ethylbenzene	ND	0.0250	1	08/30/21	08/31/21	
Foluene	ND	0.0250	1	08/30/21	08/31/21	
o-Xylene	ND	0.0250	1	08/30/21	08/31/21	
o,m-Xylene	ND	0.0500	1	08/30/21	08/31/21	
Total Xylenes	ND	0.0250	1	08/30/21	08/31/21	
Surrogate: 4-Bromochlorobenzene-PID		107 %	70-130	08/30/21	08/31/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: RKS		Batch: 2136006
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/21	08/31/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		99.0 %	70-130	08/30/21	08/31/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2136020
Diesel Range Organics (C10-C28)	726	50.0	2	08/31/21	09/03/21	
Oil Range Organics (C28-C36)	367	100	2	08/31/21	09/03/21	
Surrogate: n-Nonane		201 %	50-200	08/31/21	09/03/21	S3
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: AC		Batch: 2136012
Chloride	ND	20.0	1	08/31/21	09/01/21	



Dugan Production Corp.	Project Name:	Spill Sampling	
PO Box 420	Project Number:	06094-0177	Reported:
Farmington NM, 87499	Project Manager:	Kevin Smaka	9/3/2021 3:12:17PM

# **Anabel Pile 4 E108107-28**

	E100107 20				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analy	yst: RKS		Batch: 2136006
ND	0.0250	1	08/30/21	08/31/21	
ND	0.0250	1	08/30/21	08/31/21	
ND	0.0250	1	08/30/21	08/31/21	
ND	0.0250	1	08/30/21	08/31/21	
ND	0.0500	1	08/30/21	08/31/21	
ND	0.0250	1	08/30/21	08/31/21	
	106 %	70-130	08/30/21	08/31/21	
mg/kg	mg/kg	Analy	yst: RKS		Batch: 2136006
ND	20.0	1	08/30/21	08/31/21	
	97.8 %	70-130	08/30/21	08/31/21	
mg/kg	mg/kg	Analyst: JL			Batch: 2136020
1050	50.0	2	08/31/21	09/03/21	
549	100	2	08/31/21	09/03/21	
	203 %	50-200	08/31/21	09/03/21	S3
mg/kg	mg/kg	Anal	yst: AC		Batch: 2136012
ND	20.0	1	08/31/21	09/01/21	
	mg/kg ND ND ND ND ND ND ND ND The state of t	Result         Reporting           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           IO6 %         mg/kg           mg/kg         mg/kg           ND         20.0           97.8 %         mg/kg           mg/kg         mg/kg           1050         50.0           549         100           203 %         mg/kg           mg/kg         mg/kg	Reporting           Result         Limit         Dilution           mg/kg         mg/kg         Anal           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           MD         0.0250         1           MD         0.0250         1           Mg/kg         mg/kg         Anal           ND         20.0         1           97.8 %         70-130           mg/kg         mg/kg         Anal           1050         50.0         2           549         100         2           203 %         50-200           mg/kg         Mg/kg         Anal	Reporting           Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: RKS           ND         0.0250         1         08/30/21           ND         0.0250         1         08/30/21           ND         0.0250         1         08/30/21           ND         0.0500         1         08/30/21           ND         0.0250         1         08/30/21           mg/kg         mg/kg         Analyst: RKS           ND         20.0         1         08/30/21           mg/kg         mg/kg         Analyst: RKS           ND         20.0         1         08/30/21           mg/kg         mg/kg         Analyst: JL           1050         50.0         2         08/31/21           549         100         2         08/31/21           203 %         50-200         08/31/21           mg/kg         mg/kg         Analyst: AC	Reporting           Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: RKS           ND         0.0250         1         08/30/21         08/31/21           ND         0.0250         1         08/30/21         08/31/21           ND         0.0250         1         08/30/21         08/31/21           ND         0.0500         1         08/30/21         08/31/21           ND         0.0250         1         08/30/21         08/31/21           ND         0.0250         1         08/30/21         08/31/21           mg/kg         mg/kg         Analyst: RKS           ND         20.0         1         08/30/21         08/31/21           mg/kg         mg/kg         Analyst: RKS           ND         20.0         1         08/30/21         08/31/21           mg/kg         mg/kg         Analyst: JL           1050         50.0         2         08/31/21         09/03/21           549         100         2         08/31/21         09/03/21           mg/kg         mg/kg         Analyst: AC         09/03/21

Dugan Production Corp.	Project Name:	Spill Sampling	
PO Box 420	Project Number:	06094-0177	Reported:
Farmington NM, 87499	Project Manager:	Kevin Smaka	9/3/2021 3:12:17PM

# **Anabel Pile 5 E108107-29**

Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analy	yst: RKS		Batch: 2136006
ND	0.0250	1	08/30/21	08/31/21	
ND	0.0250	1	08/30/21	08/31/21	
ND	0.0250	1	08/30/21	08/31/21	
ND	0.0250	1	08/30/21	08/31/21	
ND	0.0500	1	08/30/21	08/31/21	
ND	0.0250	1	08/30/21	08/31/21	
	105 %	70-130	08/30/21	08/31/21	
mg/kg	mg/kg	Analy	yst: RKS		Batch: 2136006
ND	20.0	1	08/30/21	08/31/21	
	99.8 %	70-130	08/30/21	08/31/21	
mg/kg	mg/kg	Analy	yst: JL		Batch: 2136020
517	50.0	2	08/31/21	09/03/21	
307	100	2	08/31/21	09/03/21	
	112 %	50-200	08/31/21	09/03/21	
mg/kg	mg/kg	Analy	yst: AC		Batch: 2136012
ND	20.0	1	08/31/21	09/01/21	
	mg/kg ND ND ND ND ND ND ND ND The state of t	mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           ND         0.0250           MD         20.0250           MD         20.0           99.8 %         mg/kg           mg/kg         mg/kg           517         50.0           307         100           112 %         mg/kg           mg/kg         mg/kg	Result         Limit         Dilution           mg/kg         mg/kg         Analy           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           MD         0.0250         1           MD         20.0250         1           MB/kg         mg/kg         Analy           ND         20.0         1           99.8 %         70-130           mg/kg         mg/kg         Analy           517         50.0         2           307         100         2           112 %         50-200           mg/kg         mg/kg         Analy	Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: RKS           ND         0.0250         1         08/30/21           ND         0.0250         1         08/30/21           ND         0.0250         1         08/30/21           ND         0.0250         1         08/30/21           ND         0.0500         1         08/30/21           ND         0.0250         1         08/30/21           mg/kg         mg/kg         Analyst: RKS           ND         20.0         1         08/30/21           mg/kg         mg/kg         Analyst: JL           str         50.0         2         08/30/21           mg/kg         mg/kg         Analyst: JL           str         50.0         2         08/31/21           str         50-200         08/31/21           mg/kg         mg/kg         Analyst: AC	Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: RKS           ND         0.0250         1         08/30/21         08/31/21           ND         0.0250         1         08/30/21         08/31/21           ND         0.0250         1         08/30/21         08/31/21           ND         0.0500         1         08/30/21         08/31/21           ND         0.0250         1         08/30/21         08/31/21           ND         0.0250         1         08/30/21         08/31/21           mg/kg         70-130         08/30/21         08/31/21           mg/kg         mg/kg         Analyst: RKS           ND         20.0         1         08/30/21         08/31/21           mg/kg         mg/kg         Analyst: JL         08/30/21         08/31/21           mg/kg         mg/kg         Analyst: JL         09/03/21           517         50.0         2         08/31/21         09/03/21           307         100         2         08/31/21         09/03/21           mg/kg         mg/kg         Analyst: AC         09/03/21

#### **QC Summary Data**

		QC 50	инни	ary Data					
Dugan Production Corp. PO Box 420 Farmington NM, 87499		Project Name: Project Number: Project Manager:	C	Spill Sampling 16094-0177 Kevin Smaka					<b>Reported:</b> 9/3/2021 3:12:17PM
		Volatile O	rganics	by EPA 8021	1B				Analyst: RKS
		Reporting	Spike	Source		Rec		RPD	Tilliany St. Teles
Analyte	Result	Limit	Level	Result	Rec	Limits	RPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2136006-BLK1)						Pre	pared: 08/3	30/21 Ana	lyzed: 08/30/21
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.84		8.00		98.0	70-130			
LCS (2136006-BS1)						Pre	pared: 08/3	30/21 Ana	lyzed: 08/30/21
Benzene	4.89	0.0250	5.00		97.8	70-130			
Ethylbenzene	4.78	0.0250	5.00		95.7	70-130			
Toluene	4.94	0.0250	5.00		98.7	70-130			
o-Xylene	4.88	0.0250	5.00		97.6	70-130			
p,m-Xylene	9.72	0.0500	10.0		97.2	70-130			
Total Xylenes	14.6	0.0250	15.0		97.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.26		8.00		103	70-130			
Matrix Spike (2136006-MS1)				Sour	ce: E108	107-21 Pre	pared: 08/3	30/21 Ana	lyzed: 08/30/21
Benzene	4.92	0.0250	5.00	ND	98.4	54-133			
Ethylbenzene	4.84	0.0250	5.00	ND	96.8	61-133			
Toluene	4.97	0.0250	5.00	ND	99.4	61-130			
p-Xylene	4.90	0.0250	5.00	ND	98.1	63-131			
p,m-Xylene	9.82	0.0500	10.0	ND	98.2	63-131			
Total Xylenes	14.7	0.0250	15.0	ND	98.2	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.53		8.00		107	70-130			
Matrix Spike Dup (2136006-MSD1)				Sour	ce: E108	107-21 Pre	pared: 08/3	30/21 Ana	lyzed: 08/30/21
Benzene	4.97	0.0250	5.00	ND	99.5	54-133	1.12	20	
Ethylbenzene	4.87	0.0250	5.00	ND	97.5	61-133	0.628	20	
Toluene	5.01	0.0250	5.00	ND	100	61-130	0.710	20	
o-Xylene	4.95	0.0250	5.00	ND	99.0	63-131	0.959	20	
p,m-Xylene	9.88	0.0500	10.0	ND	98.8	63-131	0.577	20	



0.704

63-131

70-130

20

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

14.8

8.49

0.0250

15.0

8.00

ND

98.9

#### **QC Summary Data**

		QC 50	инна	iy Data	ı				
Dugan Production Corp. PO Box 420 Farmington NM, 87499		Project Name: Project Number: Project Manager:	06	ill Sampling 094-0177 evin Smaka				9/:	<b>Reported:</b> 3/2021 3:12:17PM
		Volatile O	rganics b	y EPA 8021	1B			1	Analyst: RKS
Analyte		Reporting	Spike	Source		Rec		RPD	
Analyte	Result	Limit	Level	Result	Rec	Limits	RPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2136007-BLK1)						Pre	pared: 08/3	30/21 Analyz	ed: 09/01/21
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.90		8.00		98.7	70-130			
LCS (2136007-BS1)						Pre	pared: 08/3	30/21 Analyz	ed: 09/01/21
Benzene	4.74	0.0250	5.00		94.8	70-130			
Ethylbenzene	4.65	0.0250	5.00		92.9	70-130			
Toluene	4.79	0.0250	5.00		95.8	70-130			
o-Xylene	4.73	0.0250	5.00		94.5	70-130			
p,m-Xylene	9.46	0.0500	10.0		94.6	70-130			
Total Xylenes	14.2	0.0250	15.0		94.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.30		8.00		104	70-130			
Matrix Spike (2136007-MS1)				Sour	ce: E108	107-01 Pre	pared: 08/3	30/21 Analyz	ed: 09/01/21
Benzene	4.77	0.0250	5.00	ND	95.4	54-133			
Ethylbenzene	4.64	0.0250	5.00	ND	92.8	61-133			
Toluene	4.80	0.0250	5.00	ND	96.1	61-130			
p-Xylene	4.72	0.0250	5.00	ND	94.5	63-131			
p,m-Xylene	9.43	0.0500	10.0	ND	94.3	63-131			
Total Xylenes	14.2	0.0250	15.0	ND	94.4	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.01		8.00		100	70-130			
Matrix Spike Dup (2136007-MSD1)				Sour	ce: E1081	107-01 Pre	pared: 08/3	30/21 Analyz	ed: 09/01/21
Benzene	4.91	0.0250	5.00	ND	98.2	54-133	2.85	20	
Ethylbenzene	4.71	0.0250	5.00	ND	94.3	61-133	1.53	20	
Toluene	4.91	0.0250	5.00	ND	98.2	61-130	2.16	20	
	4.02	0.0250	5.00	ND	96.4	63-131	2.03	20	
o-Xylene	4.82	0.0250	5.00	ND	70. <del>4</del>	05-151	2.03	20	
o-Xylene p,m-Xylene	4.82 9.58	0.0250	10.0	ND	95.8	63-131	1.55	20	

8.00

7.67

95.9

70-130



Surrogate: 4-Bromochlorobenzene-PID

Surrogate: 1-Chloro-4-fluorobenzene-FID

7.84

## **QC Summary Data**

Dugan Production Corp.	Project Name:	Spill Sampling	Reported:
PO Box 420	Project Number:	06094-0177	•
Farmington NM, 87499	Project Manager:	Kevin Smaka	9/3/2021 3:12:17PM

Farmington NM, 87499		Project Manage	r: Ke	evin Smaka				9/	3/2021 3:12:17PM
	Nor	halogenated	Organics	by EPA 80	15D - G	RO			Analyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2136006-BLK1)						Pre	pared: 08/3	30/21 Analyz	ed: 08/30/21
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.93		8.00		99.2	70-130			
LCS (2136006-BS2)						Pre	pared: 08/3	30/21 Analyz	ed: 08/30/21
Gasoline Range Organics (C6-C10)	58.0	20.0	50.0		116	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.08		8.00		101	70-130			
Matrix Spike (2136006-MS2)				Sou	rce: E108	107-21 Pre	pared: 08/3	30/21 Analyz	ed: 08/30/21
Gasoline Range Organics (C6-C10)	65.3	20.0	50.0	ND	131	70-130			M1
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.97		8.00		99.7	70-130			
Matrix Spike Dup (2136006-MSD2)				Sou	rce: E108	107-21 Pre	pared: 08/3	30/21 Analyz	ed: 08/30/21
Gasoline Range Organics (C6-C10)	62.3	20.0	50.0	ND	125	70-130	4.68	20	

98.0

70-130

Surrogate: 1-Chloro-4-fluorobenzene-FID

## **QC Summary Data**

Dugan Production Corp.	Project Name:	Spill Sampling	Reported:
PO Box 420	Project Number:	06094-0177	
Farmington NM, 87499	Project Manager:	Kevin Smaka	9/3/2021 3:12:17PM

Farmington NM, 87499		Project Manage	r: Ke	evin Smaka				9	/3/2021 3:12:17PM
	Non	halogenated	Organics l	by EPA 80	15D - G	RO			Analyst: RKS
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec	Rec Limits	RPD %	RPD Limit %	Notes
Blank (2136007-BLK1)						Pre	pared: 08/3	30/21 Analy	zed: 09/01/21
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.79		8.00		97.4	70-130			
LCS (2136007-BS2)						Pre	pared: 08/3	30/21 Analy	zed: 09/01/21
Gasoline Range Organics (C6-C10)	52.3	20.0	50.0		105	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.83		8.00		97.8	70-130			
Matrix Spike (2136007-MS2)				Sou	rce: E108	107-01 Pre	pared: 08/3	30/21 Analy	zed: 09/01/21
Gasoline Range Organics (C6-C10)	53.6	20.0	50.0	ND	107	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.94		8.00		99.2	70-130			
Matrix Spike Dup (2136007-MSD2)				Sou	rce: E108	107-01 Pre	pared: 08/3	30/21 Analy	zed: 09/01/21
Gasoline Range Organics (C6-C10)	49.3	20.0	50.0	ND	98.6	70-130	8.39	20	

8.00

7.44

93.0

70-130

Dugan Production Corp.	Project Name:	Spill Sampling	Reported:
PO Box 420	Project Number:	06094-0177	·
Farmington NM, 87499	Project Manager:	Kevin Smaka	9/3/2021 3:12:17PM

Farmington NM, 87499		Project Manage	r: Ke	evin Smaka				9/	3/2021 3:12:17PM
	Nonha	logenated Or	ganics by	EPA 8015I	) - 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 (2136020-BLK1)						Pre	pared: 08/3	31/21 Analyz	red: 08/31/21
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	44.8		50.0		89.5	50-200			
LCS (2136020-BS1)						Pre	pared: 08/3	31/21 Analyz	zed: 08/31/21
Diesel Range Organics (C10-C28)	459	25.0	500		91.8	38-132			
Gurrogate: n-Nonane	45.5		50.0		91.0	50-200			
Matrix Spike (2136020-MS1)				Sou	rce: E108	120-04 Pre	pared: 08/3	31/21 Analyz	zed: 08/31/21
Diesel Range Organics (C10-C28)	476	25.0	500	ND	95.2	38-132			
Surrogate: n-Nonane	28.3		50.0		56.7	50-200			
Matrix Spike Dup (2136020-MSD1)				Sou	rce: E108	120-04 Pre	pared: 08/3	31/21 Analyz	zed: 08/31/21
Diesel Range Organics (C10-C28)	477	25.0	500	ND	95.4	38-132	0.166	20	
Surrogate: n-Nonane	41.2		50.0		82.3	50-200			



Dugan Production Corp.	Project Name:	Spill Sampling	Reported:
PO Box 420	Project Number:	06094-0177	-
Farmington NM, 87499	Project Manager:	Kevin Smaka	9/3/2021 3:12:17PM

Farmington NM, 87499		Project Manage	r: Ke	evin Smaka				9/3	/2021 3:12:17PM
	Nonha	logenated Or	ganics by	EPA 8015I	) - 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 (2136030-BLK1)						Pre	pared: 09/0	02/21 Analyze	ed: 09/02/21
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	54.0		50.0		108	50-200			
LCS (2136030-BS1)						Pre	pared: 09/0	02/21 Analyze	ed: 09/02/21
Diesel Range Organics (C10-C28)	508	25.0	500		102	38-132			
Gurrogate: n-Nonane	51.4		50.0		103	50-200			
Matrix Spike (2136030-MS1)				Sou	rce: E108	105-09 Pre	pared: 09/0	02/21 Analyze	ed: 09/03/21
Diesel Range Organics (C10-C28)	5940	2500	500	5460	95.5	38-132			
Surrogate: n-Nonane	59.8		50.0		120	50-200			
Matrix Spike Dup (2136030-MSD1)				Sou	rce: E108	105-09 Pre	pared: 09/0	02/21 Analyze	ed: 09/03/21
Diesel Range Organics (C10-C28)	6760	2500	500	5460	259	38-132	12.9	20	M4
Surrogate: n-Nonane	58.0		50.0		116	50-200			

Dugan Production Corp.	Project Name:	Spill Sampling	Reported:
PO Box 420	Project Number:	06094-0177	
Farmington NM, 87499	Project Manager:	Kevin Smaka	9/3/2021 3:12:17PM

Farmington NM, 87499		Project Manage	r: Ke	evin Smaka					9/3/2021 3:12:17PM
	Nonha	logenated Or	ganics by	EPA 8015I	) - 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 (2136031-BLK1)						Pre	pared: 09/0	02/21 Analy	zed: 09/02/21
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.1		50.0		96.2	50-200			
LCS (2136031-BS1)						Pre	pared: 09/0	02/21 Analy	zed: 09/02/21
Diesel Range Organics (C10-C28)	489	25.0	500		97.7	38-132			
Surrogate: n-Nonane	49.0		50.0		98.0	50-200			
Matrix Spike (2136031-MS1)				Sou	rce: E108	107-09 Pre	pared: 09/	02/21 Analy	zed: 09/02/21
Diesel Range Organics (C10-C28)	516	25.0	500	ND	103	38-132			
Surrogate: n-Nonane	49.3		50.0		98.6	50-200			
Matrix Spike Dup (2136031-MSD1)				Sou	rce: E108	107-09 Pre	pared: 09/0	02/21 Analy	zed: 09/02/21
Diesel Range Organics (C10-C28)	510	25.0	500	ND	102	38-132	1.30	20	
Surrogate: n-Nonane	46.7		50.0		93.4	50-200			

Chloride

## **QC Summary Data**

Dugan Production Corp.	Project Name:	Spill Sampling	Reported:
PO Box 420	Project Number:	06094-0177	-
Farmington NM, 87499	Project Manager:	Kevin Smaka	9/3/2021 3:12:17PM

Anions by	, FDA	300	0/0056 1
Amons	LILA	. 200	UIJUJUA

Anal	yst:	AC
------	------	----

M2, R2

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2136008-BLK1)						Pre	pared: 08/	30/21 Analyz	red: 08/30/21
Chloride	ND	20.0							
LCS (2136008-BS1)						Pre	pared: 08/3	30/21 Analyz	red: 08/30/21
Chloride	248	20.0	250		99.3	90-110			
Matrix Spike (2136008-MS1)				Sour	rce: E108	107-01 Pre	pared: 08/3	30/21 Analyz	red: 08/31/21
Chloride	925	40.0	250	554	148	80-120			M2
Matrix Spike Dup (2136008-MSD1)				Sour	rce: E108	107-01 Pre	pared: 08/3	30/21 Analyz	red: 08/31/21

250

40.0

554

60.2

80-120

27.0



Chloride

#### **QC Summary Data**

Dugan Production Corp. PO Box 420		Project Name: Project Number:		pill Sampling 5094-0177					Reported:
Farmington NM, 87499		Project Manager:	: K	evin Smaka					9/3/2021 3:12:17PM
		Anions	by EPA	300.0/9056 <i>A</i>					Analyst: AC
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2136012-BLK1)						Pre	pared: 08/3	31/21 Ana	lyzed: 08/31/21
hloride	ND	20.0							
LCS (2136012-BS1)						Pre	pared: 08/3	31/21 Ana	lyzed: 08/31/21
Chloride	249	20.0	250		99.6	90-110			
Matrix Spike (2136012-MS1)				Sour	rce: E108	107-21 Pre	pared: 08/3	31/21 Ana	lyzed: 08/31/21
Chloride	255	20.0	250	ND	102	80-120			
Matrix Spike Dup (2136012-MSD1)				Sour	rce: E108	107-21 Pre	pared: 08/3	31/21 Ana	lyzed: 08/31/21

250

20.0

80-120

0.329

#### 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**

	Dugan Production Corp.	Project Name:	Spill Sampling	
ı	PO Box 420	Project Number:	06094-0177	Reported:
ı	Farmington NM, 87499	Project Manager:	Kevin Smaka	09/03/21 15:12

M1	Matrix spike recovery	was above acceptance	limits. The associa	ited LCS spike recovery w	vas acceptable.
3.60	3.6		1.11	17.00	

M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.

M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The

associated LCS spike recovery was acceptable.

R2 The RPD exceeded the acceptance limit.

S3 Surrogate spike recovery was outside acceptance limits. LCS spike recovery was acceptable.

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.

CWA SDWA
DCDA
RCRA
State
UT AZ TX

Client:	DUARIN						Bill To				La	ıb Us	se On	nly					TA	Γ	EPA P	rogram
Project:	SPHI	amp	ligh	17	Control of the last of the las	tention:			Lab	WO#			Job	Num	ber		1D :	2D	3D	Standard	CWA	SDWA
	Manager: \4	revid	74d	Ka	5500000000	ldress:			EK	38	10					<b>FFK</b>				X		
Address					Service (Co.)	y, State, Zip							Analy	ysis a	nd Me	ethod						RCRA
City, Sta	te, Zip				0.02	one:				*******												
Phone:					<u>Em</u>	nail:			015	015				Western V	()						State	
Email: Report d	lua hu								by 8	by 8	)21	9	01	0.00	Q					NW CO	UT AZ	TX
	T		38W 1986					1	ORO.	ORO	)8 Ac	y 82	s 60.	de 3	4					X		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID				Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BG						Remarks	
9:40	8-26	2	\	Pole:	5			I							X	3						
9,40	8-26	5		Pale:	5 Z			2														
9:40	8-26	5	1	Pole	5 3			3														
10:40	8-726	5		Mor	ICTIP.	1 7		4														
10:4e	8-26	S		Mon	crief	ここ		5														
10:40	8-26	S	1	Man	Crie	£ 3		6														
12:20	8-76	S	1	Ross																		
12:20	8-26	5	Þ	Ross	1 2			8														
12:20	8-2C	5	\	Roz	7 3			9														
12:20	8-24	5	\	Ros	5 4			10														
Addition	nal Instructio	ns:													1							
	pler), attest to the e of collection is c					at tampering with or in Sample	tentionally mislabelling	the sample lo	Kn											ved on ice the day t C on subsequent da		d or received
Relinquish	ed by: (Signatur	e) //	Date		me 7!10	Received by: (Sign		Date	21	Time	:5	2	Rece	ived	on ic	~e·	Lak		e Only			
Relinquish	ed by! (Signatur	e)	Date	Ti	me	Received by: (Sign	ature)	Date		Time			T1				T2			T3		
Relinquish	ed by: (Signatur	e)	Date	Ti	me	Received by: (Sign	ature)	Date		Time			AVG	Tem	n°C	4	_			. 13		
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other								Container	Type	: <b>e</b> - o	lass. r					mber	place	v - 1	/OA			
					unless other	arrangements are m	nade. Hazardous sam	ples will be	return	ned to	client	or di	spose	d of a	t the c	lient e	expens	e. Th	he repo	rt for the analy	sis of the al	nove
samples is	applicable only	to those sa	mples recei	ved by the lab	oratory with	this COC. The liabilit	y of the laboratory is	limited to th	ne amo	ount p	aid for	r on t	he rep	ort.						s. und undig	01 1110 01	



2	
Page Z	_ of _3_

Client:	DUJAR	1		16			Bill To				La	ab Us	e On	ly				TA	г	EPA P	rogram
Project:	Stall 2	anpli	AG.			Attention:			Lab	WO#	‡		Job I	Num	ber	10	2D	3D	Standard	CWA	SDWA
Project N			<u> </u>			Address:			EI	9	10				401				X		
Address:						City, State, Zip				_	_		Analy	sis ar	nd Met	hod					RCRA
City, Stat Phone:	e, ZID					Phone:			Transfer C	1000					- 1						
Email:						Email:			8015	015					9					State	
Report di	ue by:								. ≥	by 8	021	09	01	00.0	$\times$					UT AZ	TX
Time	ue by.		200 000						88	SRO SRO	)8 Ac	y 82	s 60:	de 3	-0				X		
Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	)			Lab Number	DRO/ORO	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	R					Remarks	
12:20	5-26	5	\	Ros	52 5			11							X						
12,20	8-26	S	1	Ro:	5S 6	- )		12							1						
3:30	8-26	S	\	50	7095	\ \		13							$\prod$						
3:30	8-26	5			19 V	/		14													
330	8-26	5	(	121 122	nvar	1		15													
3:30	2-26	S	1	Ja	nuar			16													
3.30	8.26	9	-	700	DOPEN	15		X													
2:20	8-76	2			abe	MI		ノナ													
2:20	8:26	5	\	An	abel	62 NZ		18													
2:20	5-26	5	(	Ano	ubel	3 SI		19													
2:70	8.26	S		Ano	bel	+ S2		20							1						
Addition	al Instruction	ns:																			
Ifield camp	lor) attact to the	validity and	Lauthonticity	of this samul	la Lamanus	e that tampering with or inte	n 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					- 1.						- 254100 154-0054 000			
	of collection is co						1/1/1/	_	cation,	4									ed on ice the day on subsequent da		d or received
	d by: (Signatur		Date	0.174.60	Time	Received by: (Signa	1 100 11 19	Date /	X	Time										уз.	
HH	d by: (Signature	ulh	Date		9/10 Time	Received by: (Signa	CUL	Date Date		7 Time	:5	3	Recei	ived	on ice		N N	e Only			
												-	T1			T2			T3		
Relinquishe	ed by: (Signatur	e)	Date		Time	Received by: (Signa	iture)	Date		Time			AVG	Tem	o°C	4			15		
Sample Matr	ix: <b>S</b> - Soil, <b>Sd</b> - So	olid, Sg - Slud	ige, A - Aque	ous, O - Othe	r			Container	Type	<b>9</b> - 9	lass, r					her gla	icc v -	VOA			
Note: Samp	oles are discard	ed 30 days	after result	s are report	ed unless ot	her arrangements are ma	de. Hazardous sam	ples will be	return	ed to	client	or dis	posed	of at	the clie	ent expe	ense. T	he repo	rt for the analy	rsis of the ah	ove
samples is a	applicable only	to those sa	imples rece	ived by the I	laboratory w	ith this COC. The liability	of the laboratory is li	mited to th	e amo	unt p	aid fo	r on th	e rep	ort.			- C			and the do	
												-						_			-
											6		3	4		n		i	ot		~ h
											4			-			V		UL	C	
																	=4				



Received by OCD: 10/27/2021 10:11:50 AM

Project Ir	formation
------------	-----------

Chain	of	Custody
-------	----	---------

3	
Page of	3

Client:	Dugan				Bill	То			La	b U	se On	lv		2035			TA	т	FPΔP	rogram
Project:	50W S	anpli	14		Attention:		Lab	Lab WO# Job Number			1	LD :	2D	3D	Standard	CWA	SDWA			
	/lanager:		J		Address:		E	08	10	7	00	09	401	17				X		3800000000000
Address:					City, State, Zip								nd Met							RCRA
City, Stat	e, Zip				Phone:															
Phone:	16-50-6				Email:		8015	15					(						State	
Email:							y 80	V 80	17	0		0.0	O					NM CO	UT AZ	TX
Report d	ue by:						₩ B	RO b	/ 80.	826	6010	e 30	4					X		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID		Lab Numbe	DRO/ORO by	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	8						Remarks	
2120	826	5	\	Anab	5 B1	21							X							
7.20	8-26	5		Anabe	1 6 BZ	23							1							
2:20	8-76	5	\	Anabe	17E1	23	_													
2:30	8-26	5	\	Anaba	1-8 W1	24														
2:20	8-26	5		Anabe	1 Pile 1	25														
2:30	8-20	S		Anabe	1 Pile 2	24														
2:20	8-26	2	(	Anab	el Pilez	27	-													
2:20	8-26	5	/	Anab	el Pile 4	28													"	
2:20	8-26	S	(	Anabe	L Pile 5	29														
3;30		5	_(	Janus	N 5								1							
	al Instructio				ļ															
date or time	of collection is co	onsidered fra	authenticity ad and may	of this sample. I am be grounds for legal	aware that tampering with or intention ction. Sampled by:	nally mislabelling the sample	location	1										ived on ice the day the		d or received
111	ed by: (Signatur	M	Date -	7-4 91	Received by: (Signature	182	7/21	Time	5	3	Rece	ived	on ice	. (	Lab		e Onl	У		
Relinquish	ed by: (Signatur	e)	Date	Time	Received by: (Signature	) Date		Time			T1			Т	$\overline{}$			T3		
Relinquish	ed by: (Signatur	e)	Date	Time	Received by: (Signature	) Date		Time				Tem	n°C	4			ala di	_ ,,0		
Sample Mat	rix: <b>S</b> - Soil, <b>Sd</b> - So	olid, Sg - Slud	ge, <b>A</b> - Aque	ous, <b>O</b> - Other		Contain	AVG Temp °C ontainer Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA													
					ss other arrangements are made.	Hazardous samples will t	e retur	ned to	client	or di	spose	d of at	the clie	ent ex	nense	e. Th	ne reni	ort for the analy	sis of the al	101/0
samples is	applicable only	to those sai	mples recei	ved by the laborat	ory with this COC. The liability of th	e laboratory is limited to	the am	ount p	aid for	on t	he rep	ort.			,, -,,,,,	en 11	.с.ср	c	or the di	



envirotech % of 127

envirotech Inc.

Printed: 8/27/2021 10:27:00AM

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Clima	Dugan Production Corp.	Date Received:	08/27/21	00.52	· · · · · · · · · · · · · · · · · · ·	Warla Ondan IDa	E108107	
Client:						Work Order ID:		
Phone:	(505) 325-1821	Date Logged In:	08/27/21			Logged In By:	Alexa Michaels	
Email:	kevin.smaka@duganproduction.com	Due Date:	09/03/21	17:00 (5 day TAT)				
Chain of	Custody (COC)							
	he sample ID match the COC?		Yes					
	he number of samples per sampling site location materials	tch the COC	Yes					
	samples dropped off by client or carrier?		Yes	Carrier: K	Levin Smaka			
	ne COC complete, i.e., signatures, dates/times, reques	sted analyses?	Yes	currer. <u>ix</u>	CVIII SIIIGKU			
	all samples received within holding time?	•	Yes					
	Note: Analysis, such as pH which should be conducted in					Commont	s/Resolution	
	i.e, 15 minute hold time, are not included in this disucssion	on.		Г		Comment	s/Resolution	
	Turn Around Time (TAT)		••					
	e COC indicate standard TAT, or Expedited TAT?		Yes					
Sample	<del></del>							
	sample cooler received?		Yes					
•	was cooler received in good condition?		Yes					
9. Was th	ne sample(s) received intact, i.e., not broken?		Yes					
10. Were	custody/security seals present?		No					
11. If yes	s, were custody/security seals intact?		NA					
12. Was the	he sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples ar minutes of sampling		Yes					
13. If no	visible ice, record the temperature.	temperature: 4°0	<u>C</u>					
Sample	<u>Container</u>							
14. Are a	iqueous VOC samples present?		No					
	VOC samples collected in VOA Vials?		NA					
16. Is the	e head space less than 6-8 mm (pea sized or less)?		NA					
17. Was	a trip blank (TB) included for VOC analyses?		NA					
18. Are 1	non-VOC samples collected in the correct containers'	?	Yes					
19. Is the	appropriate volume/weight or number of sample contain	ners collected?	Yes					
Field La	<u>bel</u>							
	field sample labels filled out with the minimum info	ormation:						
	Sample ID?		Yes					
	Date/Time Collected? Collectors name?		Yes					
	Preservation		Yes					
	the COC or field labels indicate the samples were pr	reserved?	No					
	sample(s) correctly preserved?		NA					
	o filteration required and/or requested for dissolved n	netals?	No					
	ase Sample Matrix		110					
	the sample have more than one phase, i.e., multipha	99°	NT.					
	s, does the COC specify which phase(s) is to be analy		No					
-		yzeu:	NA					
	ract Laboratory							
	amples required to get sent to a subcontract laborato	•	No					
29. Was	a subcontract laboratory specified by the client and it	f so who?	NA	Subcontract Lab	: NA			
Client I	<u>nstruction</u>							
								٦
								╝
			_					

Date

Signature of client authorizing changes to the COC or sample disposition.

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: Anabel B Tank

Work Order: E107035

Job Number: 06094-0177

Received: 7/15/2021

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 7/22/21

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: 7/22/21

Kevin Smaka PO Box 420 Farmington, NM 87499

Farmington, NM 8/499

Project Name: Anabel B Tank

Workorder: E107035

Date Received: 7/15/2021 2:30:00PM

Kevin Smaka,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/15/2021 2:30:00PM, under the Project Name: Anabel B Tank.

The analytical test results summarized in this report with the Project Name: Anabel B Tank 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

West Texas Midland/Odessa Area Tom Brown

Technical Representative Cell: 832-444-7704

tbrown@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

#### **Table of Contents**

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
Anabel B Load	5
Anabel B Clean	6
Anabel B Trace	7
QC Summary Data	8
QC - Volatile Organics by EPA 8021B	8
QC - Nonhalogenated Organics by EPA 8015D - GRO	9
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	10
QC - Anions by EPA 300.0/9056A	11
Definitions and Notes	12
Chain of Custody etc.	13

#### **Sample Summary**

	Dugan Production Corp.	Project Name:	Anabel B Tank	Reported:
١	PO Box 420	Project Number:	06094-0177	Keporteu.
	Farmington NM, 87499	Project Manager:	Kevin Smaka	07/22/21 15:21

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
Anabel B Load	E107035-01A Soil	07/15/21	07/15/21	Glass Jar, 4 oz.
Anabel B Clean	E107035-02A Soil	07/15/21	07/15/21	Glass Jar, 4 oz.
Anabel B Trace	E107035-03A Soil	07/15/21	07/15/21	Glass Jar, 4 oz.



Dugan Production Corp.	Project Name:	Anabel B Tank	
PO Box 420	Project Number:	06094-0177	Reported:
Farmington NM, 87499	Project Manager:	Kevin Smaka	7/22/2021 3:21:28PM

#### Anabel B Load E107035-01

	E10/033-01				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analys	t: IY	<u>-</u>	Batch: 2130004
ND	0.0250	1	07/19/21	07/20/21	
ND	0.0250	1	07/19/21	07/20/21	
ND	0.0250	1	07/19/21	07/20/21	
ND	0.0250	1	07/19/21	07/20/21	
ND	0.0500	1	07/19/21	07/20/21	
ND	0.0250	1	07/19/21	07/20/21	
	99.0 %	70-130	07/19/21	07/20/21	
mg/kg	mg/kg	Analys	t: IY		Batch: 2130004
ND	20.0	1	07/19/21	07/20/21	
	90.4 %	70-130	07/19/21	07/20/21	
mg/kg	mg/kg	Analys	t: JL		Batch: 2130005
3130	250	10	07/19/21	07/22/21	
1260	500	10	07/19/21	07/22/21	
	178 %	50-200	07/19/21	07/22/21	
mg/kg	mg/kg	Analys	t: RAS		Batch: 2130008
22.4	20.0	1	07/20/21	07/20/21	
	mg/kg ND ND ND ND ND ND ND ND 10 mg/kg ND mg/kg 1260	Result         Reporting           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           mg/kg         mg/kg           Mg/kg         mg/kg           mg/kg         mg/kg           3130         250           1260         500           178 %         mg/kg           mg/kg         mg/kg	Reporting           Result         Limit         Dilution           mg/kg         mg/kg         Analys           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           ND         0.0250         1           MD         0.0250         1           99.0 %         70-130         70-130           mg/kg         mg/kg         Analys           ND         20.0         1           90.4 %         70-130         70-130           mg/kg         mg/kg         Analys           3130         250         10           1260         500         10           178 %         50-200           mg/kg         Analys	Reporting           Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: IY           ND         0.0250         1         07/19/21           ND         0.0250         1         07/19/21           ND         0.0250         1         07/19/21           ND         0.0250         1         07/19/21           ND         0.0500         1         07/19/21           ND         0.0250         1         07/19/21           mg/kg         mg/kg         Analyst: IV           ND         20.0         1         07/19/21           mg/kg         mg/kg         Analyst: JL           mg/kg         mg/kg         Analyst: JL           3130         250         10         07/19/21           1260         500         10         07/19/21           mg/kg         mg/kg         Analyst: RAS	Reporting           Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: IY           ND         0.0250         1         07/19/21         07/20/21           ND         0.0500         1         07/19/21         07/20/21           ND         0.0250         1         07/19/21         07/20/21           mg/kg         mg/kg         Analyst: IY         ND         07/20/21           mg/kg         mg/kg         Analyst: IY         07/20/21           mg/kg         mg/kg         Analyst: IY         07/20/21           mg/kg         mg/kg         Analyst: IY         07/20/21           mg/kg         mg/kg         Analyst: JL         07/20/21           mg/kg         mg/kg         Analyst: JL         07/20/21           mg/kg         mg/kg         Analyst: JL         07/22/21           1260         500         10



Dugan Production Corp.	Project Name:	Anabel B Tank	
PO Box 420	Project Number:	06094-0177	Reported:
Farmington NM, 87499	Project Manager:	Kevin Smaka	7/22/2021 3:21:28PM

#### **Anabel B Clean**

#### E107035-02

		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: IY		Batch: 2130004
Benzene	ND	0.0250	1	07/19/21	07/20/21	
Ethylbenzene	ND	0.0250	1	07/19/21	07/20/21	
Toluene	ND	0.0250	1	07/19/21	07/20/21	
o-Xylene	ND	0.0250	1	07/19/21	07/20/21	
p,m-Xylene	ND	0.0500	1	07/19/21	07/20/21	
Total Xylenes	ND	0.0250	1	07/19/21	07/20/21	
Surrogate: 4-Bromochlorobenzene-PID		97.3 %	70-130	07/19/21	07/20/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: IY		Batch: 2130004
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/19/21	07/20/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.8 %	70-130	07/19/21	07/20/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: JL		Batch: 2130005
Diesel Range Organics (C10-C28)	351	25.0	1	07/19/21	07/20/21	
Oil Range Organics (C28-C36)	146	50.0	1	07/19/21	07/20/21	
Surrogate: n-Nonane		162 %	50-200	07/19/21	07/20/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: RAS		Batch: 2130008
Chloride	63.7	20.0	1	07/20/21	07/20/21	·



# Sample Data

Dugan Production Corp.	Project Name:	Anabel B Tank	
PO Box 420	Project Number:	06094-0177	Reported:
Farmington NM, 87499	Project Manager:	Kevin Smaka	7/22/2021 3:21:28PM

#### **Anabel B Trace**

		E107035-03				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: IY		Batch: 2130004
Benzene	0.0982	0.0250	1	07/19/21	07/20/21	
Ethylbenzene	1.60	0.0250	1	07/19/21	07/20/21	
Toluene	2.26	0.0250	1	07/19/21	07/20/21	
o-Xylene	2.44	0.0250	1	07/19/21	07/20/21	
p,m-Xylene	6.50	0.0500	1	07/19/21	07/20/21	
Total Xylenes	8.94	0.0250	1	07/19/21	07/20/21	
Surrogate: 4-Bromochlorobenzene-PID		103 %	70-130	07/19/21	07/20/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: IY		Batch: 2130004
Gasoline Range Organics (C6-C10)	113	20.0	1	07/19/21	07/20/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		107 %	70-130	07/19/21	07/20/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: JL		Batch: 2130005
Diesel Range Organics (C10-C28)	4810	50.0	2	07/19/21	07/20/21	
Oil Range Organics (C28-C36)	1550	100	2	07/19/21	07/20/21	
Surrogate: n-Nonane		252 %	50-200	07/19/21	07/20/21	S5
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: RAS		Batch: 2130008
Chloride	69.9	20.0	1	07/20/21	07/20/21	



#### **QC Summary Data**

Anabel B Tank Dugan Production Corp. Project Name: Reported: PO Box 420 Project Number: 06094-0177 Farmington NM, 87499 Project Manager: Kevin Smaka 7/22/2021 3:21:28PM **Volatile Organics by EPA 8021B** Analyst: IY Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % % Notes Prepared: 07/19/21 Analyzed: 07/20/21 Blank (2130004-BLK1) ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 8.04 8.00 101 70-130 Prepared: 07/19/21 Analyzed: 07/20/21 LCS (2130004-BS1) 5.07 101 70-130 5.00 Benzene 0.0250 Ethylbenzene 5.12 0.0250 5.00 102 70-130 5.33 0.0250 5.00 107 70-130 Toluene o-Xylene 5.05 0.0250 5.00 101 70-130 10.4 10.0 104 70-130 0.0500 p.m-Xvlene 103 70-130 15.4 15.0 Total Xylenes 0.0250 8.00 100 70-130 Surrogate: 4-Bromochlorobenzene-PID 8.00 Source: E107036-21 Prepared: 07/19/21 Analyzed: 07/20/21 Matrix Spike (2130004-MS1) 5.12 0.0250 5.00 ND 102 54-133 Benzene 103 61-133 Ethylbenzene 5.15 0.0250 5.00 ND Toluene 5.35 0.0250 5.00 ND 107 61-130 5.08 ND 102 63-131 5.00 0.0250 o-Xylene p,m-Xylene 10.4 0.0500 10.0 ND 104 63-131 15.5 0.0250 15.0 ND 103 63-131 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 8.02 8.00 Source: E107036-21 Prepared: 07/19/21 Analyzed: 07/20/21 Matrix Spike Dup (2130004-MSD1) 4.97 0.0250 5.00 ND 99.5 54-133 2.93 20 61-133 2.73 5.01 0.0250 5.00 ND 100 20 Ethylbenzene 5 22 ND 104 61-130 20

0.0250

0.0250

0.0500

0.0250

4.95

10.1

15.1

8.03

5.00

5.00

10.0

15.0

8.00

ND

ND

ND

99.0

101

101

100

63-131

63-131

63-131

70-130



2 49

2.53

2.57

2.56

20

20

20

Toluene

o-Xylene

p,m-Xylene

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

Surrogate: 1-Chloro-4-fluorobenzene-FID

#### **QC Summary Data**

Dugan Production Corp.	Project Name:	Anabel B Tank	Reported:
PO Box 420	Project Number:	06094-0177	·
Farmington NM, 87499	Project Manager:	Kevin Smaka	7/22/2021 3:21:28PM

Farmington NM, 87499		Project Manage		evin Smaka				7	//22/2021 3:21:28PM
	Non	halogenated	Organics l	by EPA 80	15D - G	RO			Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2130004-BLK1)						Pre	pared: 07/1	19/21 Analy	zed: 07/20/21
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.26		8.00		90.8	70-130			
LCS (2130004-BS2)						Pre	pared: 07/1	19/21 Analy	zed: 07/20/21
Gasoline Range Organics (C6-C10)	44.0	20.0	50.0		88.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.11		8.00		88.9	70-130			
Matrix Spike (2130004-MS2)				Sou	rce: E107	036-21 Pre	pared: 07/1	19/21 Analy	zed: 07/20/21
Gasoline Range Organics (C6-C10)	44.7	20.0	50.0	ND	89.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.28		8.00		91.0	70-130			
Matrix Spike Dup (2130004-MSD2)				Sou	rce: E107	036-21 Pre	pared: 07/1	19/21 Analy	zed: 07/20/21
Gasoline Range Organics (C6-C10)	44.9	20.0	50.0	ND	89.9	70-130	0.618	20	

8.00

7.19

89.9

70-130

Dugan Production Corp.	Project Name:	Anabel B Tank	Reported:
PO Box 420	Project Number:	06094-0177	-
Farmington NM, 87499	Project Manager:	Kevin Smaka	7/22/2021 3:21:28PM

Farmington NM, 8/499		Project Manager	i. K	evin Smaka					72272021 3.21.26FWI
	Nonha	logenated Or	ganics by	EPA 8015E	o - 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 (2130005-BLK1)						Pre	pared: 07/	19/21 Analy	yzed: 07/20/21
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.8		50.0		108	50-200			
LCS (2130005-BS1)						Pre	pared: 07/	19/21 Analy	zed: 07/20/21
Diesel Range Organics (C10-C28)	452	25.0	500		90.3	38-132			
urrogate: n-Nonane	51.9		50.0		104	50-200			
Matrix Spike (2130005-MS1)				Sour	rce: E107	034-10 Pre	pared: 07/	19/21 Analy	zed: 07/20/21
Diesel Range Organics (C10-C28)	419	25.0	500	ND	83.8	38-132			
Surrogate: n-Nonane	47.3		50.0		94.7	50-200			
Matrix Spike Dup (2130005-MSD1)				Sour	rce: E107	034-10 Pre	pared: 07/	19/21 Analy	zed: 07/20/21
Diesel Range Organics (C10-C28)	452	25.0	500	ND	90.3	38-132	7.50	20	
Gurrogate: n-Nonane	52.5		50.0		105	50-200			

Matrix Spike Dup (2130008-MSD1)

Chloride

259

#### **QC Summary Data**

Dugan Production Corp. PO Box 420 Farmington NM, 87499		Project Name: Project Number: Project Manager	: 06	nabel B Tank 6094-0177 evin Smaka				7	<b>Reported:</b> 7/22/2021 3:21:28PM
		Anions	Analyst: RAS						
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limit %	Notes
Blank (2130008-BLK1)	Prepared: 07/20/21 Analyzed: 07/20/21								yzed: 07/20/21
Chloride	ND	20.0							
LCS (2130008-BS1)						Pre	pared: 07/2	20/21 Analy	yzed: 07/20/21
Chloride	244	20.0	250		97.5	90-110			
Matrix Spike (2130008-MS1)				Sou	rce: E107	023-01 Pre	pared: 07/2	20/21 Analy	yzed: 07/20/21
Chloride	258	20.0	250	ND	103	80-120			

250

20.0

ND

104

#### 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.



**Source:** E107023-01 Prepared: 07/20/21 Analyzed: 07/20/21

0.496

20

80-120

## **Definitions and Notes**

	Dugan Production Corp.	Project Name:	Anabel B Tank	
-	PO Box 420	Project Number:	06094-0177	Reported:
	Farmington NM, 87499	Project Manager:	Kevin Smaka	07/22/21 15:21

S5 Surrogate spike recovery exceeded acceptance limits due to interfering target and/or non-target analytes.

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.



Chain of Custody

Page	of

Received by OCD: 10/27/2021 10:11:50 AM

Client: Duagn Project: Anabel B Tank Attention:											Jse Only					TAT			EPA Progra						
Project:								La	Lab WO# Job Number Copy - OP					2D	3D	St	andard	CWA	SDWA						
		evin	Smal	a		Addr				E	E107035 06094-0177 X														
Address:						City,	State, Zip								Analy	/sis a	nd Me	etho	d				THE ST		RCRA
City, Stat	e, Zip	remisat	ton			Phor	ne:	ļ		-									1						
	hone: 505-486.6207 Email:						_   ;	5   1	015									li			State				
Email:										1 '	ا <u>چ</u>	by 8	21	<u>ان</u>	0	0.0			i				NM CO	UT AZ	TX
Report d	ue by:				100						ᅙၙ	ROI	y 80	/ 826	601	le 3(			l			1	XL		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID		SOUTH THE			Lab Numbe	er å	DRO/ORO by 8015	GRO/DRO by 8015	ВТЕХ БУ 8021	VOC by 8260	Metals 6010	Chloride 300.0								Remarks	
12:30	7-15	S	1	Anal	el B	5	LOAD			2	X	X	χ			χ									
12:30	7-15	S	1	Anab	e/ I	3 (	Clean		2	)	X	X	χ			χ									24
12:30	7-15	S	1	Arab	el B	) -	Trace		3	X	(	χ	Χ			Ϋ́									
									NAME OF																
																									a constituent
							W 2550											- I							
	al Instruction					~			VII. 2002																
			authenticity ud and may	of this sample be grounds fo	e. I am awar r legal action	re that t n.	ampering with or into Sampled	entionally mislabellin	g the sample	nocat na	LK.	વ											on ice the day t subsequent da		d or received
10	ed-by: (Signatur	#1//n	Date	:/S	Time 23	0	Received by: (Signa	eture)	Date 7(1	5/2	l	Time	4:3	O	Rece	eivec	d on ic	ce:		ab U / N	se On	ly			
Relinquishe	ed by: (Signatur	e) 00 1	Date	_	Time		Received by: (Signa	iture)	Date			Time			T1				T2				T3		
Relinquishe	d by: (Signatur	e)	Date		Time		Received by: (Signa	iture)	Date		1	Time			- fs	Ten	np °C_		4						
Sample Matr	ix: <b>S</b> - Soil <b>, Sd</b> - So	olid, Sg - Slud	ge, A - Aque	ous, <b>O</b> - Other	1				Contain	er Ty	ype:	<b>g</b> - g	lass,						r glas	55, V -	VOA				
Note: Samp	les are discard	ed 30 days a	after result	s are reporte	d unless of	ther ar	rangements are ma	de. Hazardous sa														port f	or the analy	sis of the al	oove
								of the laboratory i																	



envirotech 127

envirotech Inc.

Printed: 7/16/2021 12:57:52PM

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Dugan Production Corp.	Date Received:	07/15/21	14:30		Work Order ID:	E107035
Phone:	(505) 325-1821	Date Logged In:	07/16/21	12:55		Logged In By:	Jessica Liesse
Email:	kevin.smaka@duganproduction.com	Due Date:		17:00 (5 day TAT)		86	
Chain of	Custody (COC)						
1. Does th	ne sample ID match the COC?		Yes				
	ne number of samples per sampling site location man	tch the COC	Yes				
3. Were sa	amples dropped off by client or carrier?		Yes	Carrier: I	Kevin Smaka		
4. Was the	e COC complete, i.e., signatures, dates/times, reques	sted analyses?	Yes				
5. Were al	Il samples received within holding time?	·	Yes				
	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssis					Comment	s/Resolution
Sample T	urn Around Time (TAT)						
	COC indicate standard TAT, or Expedited TAT?		Yes				
Sample C	· •						
	sample cooler received?		Yes				
	was cooler received in good condition?		Yes				
•	e sample(s) received intact, i.e., not broken?		Yes				
	custody/security seals present?						
	* *		No				
•	were custody/security seals intact?		NA				
12. Was the	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples ar minutes of sampling		Yes				
13. If no v	visible ice, record the temperature.  Actual sample	temperature: 4°0	<u>C</u>				
Sample C	Container						
14. Are ac	queous VOC samples present?		No				
15. Are V	OC samples collected in VOA Vials?		NA				
16. Is the	head space less than 6-8 mm (pea sized or less)?		NA				
17. Was a	trip blank (TB) included for VOC analyses?		NA				
18. Are no	on-VOC samples collected in the correct containers'	?	Yes				
19. Is the a	appropriate volume/weight or number of sample contain	ners collected?	Yes				
Field Lab	<u>oel</u>						
	field sample labels filled out with the minimum info	ormation:					
Sa	ample ID?		Yes				
_	ate/Time Collected?		Yes				
C	ollectors name?		Yes				
	reservation						
	the COC or field labels indicate the samples were pr	reserved?	No				
	ample(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved n	netals?	No				
<u>Multipha</u>	se Sample Matrix						
26. Does t	the sample have more than one phase, i.e., multipha	se?	No				
27. If yes,	does the COC specify which phase(s) is to be analy	yzed?	NA				
Subcontr	act Laboratory						
	imples required to get sent to a subcontract laborato	rv?	No				
	subcontract laboratory specified by the client and in	•	NA	Subcontract Lal	b: NA		
	struction						
Chent In	isti ucuon						

Date

Signature of client authorizing changes to the COC or sample disposition.

Responsible Party Dugan Production Corp.

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

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	NAPP2118234253
District RP	
Facility ID	
Application ID	

# **Release Notification**

## **Responsible Party**

OGRID 006515

Contact Name Kevin Smaka				Contact Telephone 505-325-1821 x1049					
Contact email Kevin.Si	maka@duganprodu	ction.com	Incident #	Incident # (assigned by OCD) NAPP2118234253					
Contact mailing address	PO Box 420, Farr	mington, NM 874	.99						
Latitude _36.3697205			of Release S  Longitude  cimal degrees to 5 decim	-107.6721954					
Site Name Anabel B #			Site Type	Oil Well					
Date Release Discovered	6/29/21		API# (if app	plicable) 30-045-26527					
Unit Letter Section K 27  Surface Owner: □ State	Township 25N	Range 8W	Cour San J						
Materi	al(s) Released (Select al	Nature and	l Volume of 1	justification for the volumes provided below)					
Crude Oil	Volume Release			Volume Recovered (bbls) 15					
☐ Produced Water	Volume Release			Volume Recovered (bbls)					
	ls the concentrate	ion of dissolved cl >10.000 mg/l?	hloride in the	☐ Yes ☐ No					
Condensate	Volume Release			Volume Recovered (bbls)					
☐ Natural Gas	Volume Release	d (Mcf)		Volume Recovered (Mcf)					
Other (describe) Volume/Weight Released (provide units			e units)	Volume/Weight Recovered (provide units)					
Cause of Release									
Corrosion of tank botton	1								

Form C-141 Page 2

# State of New Mexico Oil Conservation Division

Incident ID	NAPP2118234253
District RP	
Facility ID	
Application ID	

		Application 15
Was this a major release as defined by 19.15.29.7(A) NMAC?  ☐ Yes ☑ No	If YES, for what reason(s) does the response	onsible party consider this a major release?
If YES, was immediate n	lotice given to the OCD? By whom? To w	whom? When and by what means (phone, email, etc)?
	Initial R	esponse
The responsible	party must undertake the following actions immediate	ely unless they could create a safety hazard that would result in injury
The impacted area has Released materials has All free liquids and re	ease has been stopped.  as been secured to protect human health and ave been contained via the use of berms or ecoverable materials have been removed an d above have not been undertaken, explain	dikes, absorbent pads, or other containment devices.
has begun, please attach	a narrative of actions to date. If remedial	remediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred please attach all information needed for closure evaluation.
regulations all operators are public health or the environ failed to adequately investig	required to report and/or file certain release not ment. The acceptance of a C-141 report by the ate and remediate contamination that pose a thr	best of my knowledge and understand that pursuant to OCD rules and ifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws
Printed Name: <u>Kevin Sr</u>	naka	Title: Engineer
Signature:	6 Smln	Date: June 30, 2021
email: <u>Kevin.Smaka@d</u>	uganproduction.com	Telephone: _505-325-1821 x1049
OCD Only		
Received by: Ramona	Marcus	Date:11/1/2021

Received by OCD: 10/27/2021 10:11:50 AM

Page 114 of 127

Form C-1 41 Page 3

#### State of New Mexico Oil Conservation Division

Incident ID	NAPP2118234253
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 20 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release?	700 577 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☒ No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil

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

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

Received by OCD: 10/27/2021 10:11:50 AM

Page 115 of 127

Form C-1 41 Page 4

# State of New Mexico Oil Conservation Division

Incident ID	NAPP2118234253
District RP	
Facility ID	
Application ID	

I hereby cenify that the information given above is true and complete to the best regulations all operators are required to report and/or file certain release notifical public health or the environment. The acceptance of a C-141 report by the OCD failed to adequately investigate and remediate contamination that pose a threat to addition, OCD acceptance of a C-141 report does not relieve the operator of respand/or regulations.	tions and perform corrective actions for releases which may endanger does not relieve the operator of liability should their operations have be groundwater, surface water, human health or the environment. In consibility for compliance with any other federal, state, or local laws	
Printed Name: 1100 Smith Ti	tle: <u>Engineer</u>	
Signature: Kevin Smaka Odugan production	ate: 10-21-2	
email: KRUD. Smaka @ dugo n Productelephone:		
OCD Only		
Received by: Ramona Marcus	Date:	

Form C-141 Page 5

# State of New Mexico Oil Conservation Division

Incident ID	NAPP2118234253
District RP	
Facility ID	
Application ID	

# **Remediation Plan**

Remediation Plan Checklist: Each of the following items must be included in the plan.		
Detailed description of proposed remediation technique  Scaled sitemap with GPS coordinates showing delineation points  Estimated volume of material to be remediated  Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC  Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)		
Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.		
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.		
Extents of contamination must be fully delineated.		
Contamination does not cause an imminent risk to human health, the environment, or groundwater.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.  Printed Name:    Title:   Engineer		
OCD Only           Received by:         Ramona Marcus           Date:         11/01/2021		
Approved Approved with Attached Conditions of Approval Denied Deferral Approved		
Signature: Date:		

Page 117 of 127

Form C-141 Page 6

# State of New Mexico Oil Conservation Division

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

Incident ID	
District RP	
Facility ID	
Application ID	

## Closure

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

☐ A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of	nediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for tions. The responsible party acknowledges they must substantially inditions that existed prior to the release or their final land use in
Printed Name:	Title:
Signature:	Date:
email:	Telephone:
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and vater, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by:	Date:
Printed Name:	Title:

# Spill Remediation Plan

Dugan Production Corp.

Anabel B #1
API# 30-045-26527
K-27-25N-08W
1860 FSL 1680 FWL

#### Spill Background

Dugan Production Corp. had a spill as a result of corrosion at the Anabel B #1 tank battery. Remedial efforts to date have involved excavating soils and stockpiling soils waiting for crew availability to haul soils. Sampling results indicated contaminated soils have been removed from the hole and need to land farm or chemically treated to complete remedial efforts.

#### Site Ranking

The spill occurred at a tank battery and was contained inside the tank's berm. The spill rule indicates that the following criteria must be considered for closure purposes:

- (4) If a release occurs within the following areas, the responsible party must treat the release as if it occurred less than 50 feet to ground water in Table I of 19.15.29.12 NMAC:
  - (a) within
    - (i) 300 feet of any continuously flowing watercourse or any other

significant watercourse, or

(ii) 200 feet of any lakebed, sinkhole or playa lake (measured from the

ordinary high-water mark);

(b) within 300 feet from an occupied permanent residence, school, hospital,

institution or church;

- (c) within
  - (i) 500 feet of a spring or a private, domestic fresh water well used by

less than five households for domestic or stock watering purposes, or

- (ii) 1000 feet of any fresh water well or spring;
- (d) within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended, unless the municipality specifically approves;
  - (e) within 300 feet of a wetland;
  - (f) within the area overlying a subsurface mine;
  - (g) within an unstable area; or
  - **(h)** within a 100-year floodplain.

Site maps, topo maps, aerial maps, hydrogeologic reports, flood plain maps and a mine map included with the site characterization report indicate this spill may be treated in the greater than 100 ft to groundwater table as indicated in table 1 of the spill rule.

		ble I	
		ls Impacted by a Release	
Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/l TDS	Constituent	Method*	Limit**
$\leq$ 50 feet	Chloride***	EPA 300.0 or SM4500 Cl B	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg
51 feet-100 feet	Chloride***	EPA 300.0 or SM4500 Cl B	10,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg
>100 feet	Chloride***	EPA 300.0 or SM4500 Cl B	20,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

As indicated Dugan will be working to achieve closure in the >100 feet groundwater portion of table 1.

#### **Proposed Remediation Plan**

Dugan proposes to clean the spill using soil shredding technology. In this process contaminated soil is passed through machinery that shreds and aerates the soil. The soil is then treated with an oxidizing agent (Hydrogen peroxide in this case) that breaks down the hydrocarbons in the soil. The soil will be collected and spread into 100 cubic yard windrows and tested. If sampling results are below the limits established in the spill rule Dugan will use the soil for back fill. If sample results are too high the soil will be reprocessed and sprayed until all soils are meet the standards in table 1 of the spill rule.

The spill has not been fully delineated. At this time Dugan has excavated roughly 350 cubic yards of soil. Dugan will excavate the remaining portion of the spill area to verify that the spill has been delineated and can proceed with closure.

To be clear, soils will be treated and cleaned using soil shredding technology. Prior to backfill the sides and bottom of the spill area will be sampled and tested to verify the hole has been properly delineated. Contaminated soils will be treated and tested. Once all soils are withing the limits of table 1 in the greater than 100>feet to water category are achieved, the soils will be used to back fill the hole. The soils will be compacted, reclaimed, reseeded and restored to the best condition possible while the area is part of an active well site.

Dugan proposes to start this project as soon as approval from OCD has been granted. Dugan anticipates this project will be completed no later than 11/30/2021. Should unexpected delays occur Dugan will be notifying OCD and BLM of our plans and expected timeframes to complete the project.

### Spill Characterization Report

Dugan Production Corp.

Anabel B #1
API# 30-045-26527
K-27-25N-08W
1860 FSL 1680 FWL

A tank at Dugan Production Corp. Anabel B #1 well site, on 6/29/21, lost integrity due to corrosion and as a result spilled oil inside the berm of the tank. All fluids were contained within the tank berm area. Dugan crews began work to remediate the spill on 6/30/21. Soil samples of the initial excavated soil was collected, sent to Envirotech for analysis. Those initial results may be found at the end of this report as item #1. Initial sampling results indicated high TPH and clear signs of needing to expand the excavation to delineate and remediate the spill.

Dugan crews began work to further excavate and delineate the spill. Dugan personnel dug down until soils began to appear free of staining and hydrocarbon odors. Clean dirt was found at an average depth of 10 feet. At this point the crew began working to delineate the lateral extents of the spill. Crews excavated soils until they excavated a hole with dimensions of 32' x 30' x 10'.

The excavation appeared to be successful due to the fact soils removed from the hole were odorless and free of staining. Confirmation sampling was scheduled to confirm remediation was successful. The results indicated that all the side walls were free of any contaminants. The results from the bottom of the excavation were significantly better than the initial samples. One of the samples had DRO values higher than permitted in table 1 of the spill rule. As such Dugan will be submitting a remediation plan to address and remediate the spill at this tank battery.

#### **Field Data**

- 6-29-21 Spill was discovered by Dugan personnel. Oil spill is contained within berm. Water truck was called to recover standing oil inside of berm. In order to protect the public and wildlife a fence was constructed around the spill site.
- 6-30-21 Dugan crews began efforts to delineate the spill. Contaminated soil was excavated and stockpiled within a berm to prevent liquids from spreading and contaminating other soils. Soils appear brown and grey and contain strong hydrocarbon odors. Current hole size is  $5' \times 5' \times 5'$ .
- 7-15-21 Dugan crews continued remedial efforts. Crew foreman noted strong odors and visual evidence of hydrocarbons appeared to be dissipating. Samples we collected to verify that spill had been delineated. Sample results indicated high levels of hydrocarbons were present in the bottom of the pit. Crew continuing to excavate deeper and further out until sample results indicate the spill is delineated.

- 8-2-21 Heavy rains have made accessing the location dangerous to Dugan personnel. Pandemic issues with the labor force have impacted Dugan's ability to hire a contract blade service to repair the roads so heavy equipment may be safely transported to the location.
- 8-27-21 Roads have been repaired. Dugan crews continued delineation efforts. Hole is now approximately 25' x 25' x 10'. Signs of staining on the sidewalls and bottom of the hole are gone. Soils are free of hydrocarbon odors. Samples were collected to confirm the spill has been adequately delineated. Sample results indicated conditions are improving but values for hydrocarbons are still too high to consider this for closure or delineation purposes.
- 10-4-21 Field crews have expanded the hole to be a size of nearly 32'x 30' x 10'. All walls and base appear to be free of hydrocarbon staining. Soils are mostly free of hydrocarbon odors. Some handfuls of dirt had faint trace odors of hydrocarbons. Samples were collected to verify delineation efforts were successful. Results indicated one area in the base still tested too high for DRO limits. A site characterization and spill remediation C-141 will be prepared and submitted to OCD to complete further remedial actions.

# **Excavation Log/Notes**

Pit dimensions (feet by feet)	Pit depth (feet)	Soil Conditions
5 x 5	5	Soils are heavily stained and have strong odors
5 x 10	10	Soils at 10 feet appear clean. Walls are visibly stained and have strong odors Side walls are still stained.
10 x 10	10	Base clears up at a depth of 10 feet
15 x 10	10	Side walls are heavily stained and have strong odors
15 x 15	10	Soils are heavily stained and have strong odors
20 x 15	10	Soils are heavily stained and have strong odors
20 x 20	10	Soils are heavily stained and have strong odors
25x 20	10	Soils are heavily stained and have strong odors
25 x 25	10	Soils are heavily stained and have strong odors
30 x 25	10	Side walls are starting to clear up. Spotting is still present but improving. The base is still in good condition.
30 x 30	10	Side walls are in very good condition. One wall still exhibits staining and must have a little more dirt removed to delineate spill.
32 x 30	10	Walls and base are free of staining and odors. Any discoloration can be attributed to soil type as they are free of odors. Sampling will be conducted to verify delineation efforts.





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

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

a C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

 POD

 Sub Q Q Q
 Depth Depth Water

 POD Number
 Code basin County 64 16 4 Sec Tws Rng
 X
 Y
 Well Water Column

 SJ 03275
 SJ SJ 4 2 2 25 25N 08W 264502 4028868\*
 57 18 39

Average Depth to Water: 18 feet

Minimum Depth: 18 feet

(In feet)

Maximum Depth: 18 feet

**Record Count: 1** 

**Basin/County Search:** 

Basin: San Juan County: San Juan

PLSS Search:

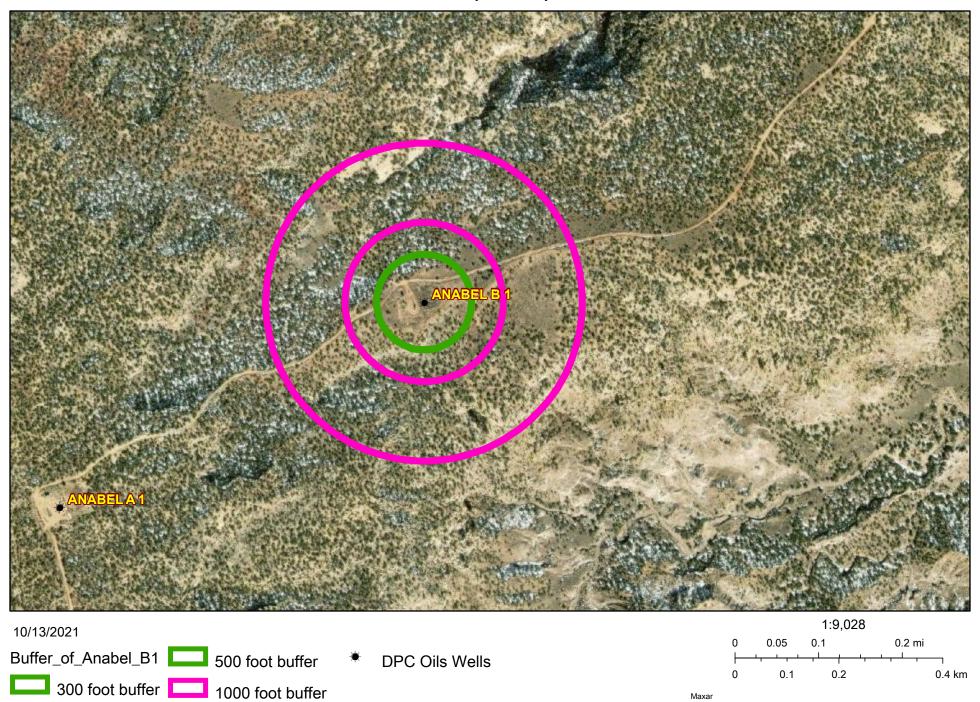
Section(s): 21-35 Township: 25N Range: 08W

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

10/21/21 3:44 PM

# Anabel B1 Spill Map Buffers



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 58113

#### **CONDITIONS**

Operator:	OGRID:
DUGAN PRODUCTION CORP	6515
PO Box 420	Action Number:
Farmington, NM 87499	58113
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By	Condition	Condition Date
nvelez	None	1/7/2022