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	
District RP	
Facility ID	
Application ID	

Release Notification

			Resp	onsibl	e Party	ty			
Responsible	Responsible Party: Enterprise Field Services, LLC					151618			
Contact Name: Thomas Long					Contact Te	Celephone: 505-599-2286			
Contact email:tjlong@eprod.com				I	ncident	nt # (assigned by OCD): NRM2010735527			
Contact mail 87401	ing address:	614 Reilly Ave,	Farmington, NI	M					
			Location	of Rel	ease So	Source			
Latitude 36.7	'5538		Longitude -	107.9753	39	(NAD 83 in decimal degrees to 5 decimal places)			
Site Name La	teral 3B-7	Hydro Test Rel	ease	Si	te Type N	Natural Gas Gathering Pipeline			
Date Release	Discovered:	04/07/2020		Se	Serial Number (if applicable): N/A				
Unit Letter	Section	Township	Range		County				
G	3	29N	11W		San Juan				
Surface Owner	:: State	☐ Federal ☐ Tr	ibal X Private (N	Vame: D &	& C Prop	perties, LLC			
		276	Nature and						
Crude Oil		(s) Released (Select al Volume Release		calculations	or specific	c justification for the volumes provided below) Volume Recovered (bbls)			
Produced	Water	Volume Release	d (bbls)			Volume Recovered (bbls)			
		Is the concentrat	ion of dissolved ch	hloride in	the	☐ Yes ☐ No			
Condensa	te	Volume Release				Volume Recovered (bbls):			
☐ Natural G	as	Volume Release	d (Mcf):		Volume Recovered (Mcf):				
☐ Other (describe) Hydro-static Test Water Volume/Weight Released (provide units Barrels					25	Volume/Weight Recovered (provide units) None			
An area of ap	proximately approximate	30 feet in diameterly 600 feet. No wa	er on the ground so shes/waterways w	surface wa vere affect	is impacte ted. Eval	ic test water (potable water) from the Lateral 3B-7 pipeline cted by the release fluids. In addition, the released fluids aluation of the release was performed from April 14, 2020 tely 14 feet long by 10 feet wide by approximately 7 fee			

deep. No surface or subsurface environmental impacts in exceedance of NMOCD Tier I remediation standards were observed. A third

party closure report is included with this "Final." C-141.

Received by OCD: 12/3/2020 6:22:32 AM State of New Mexico Oil Conservation Division Page 2

	Tuge 2 of o
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.

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

A scaled site and sampling diagram as described in 19.15.2	29.11 NMAC
Photographs of the remediated site prior to backfill or phomust be notified 2 days prior to liner inspection)	otos of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate C	DDC 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 cermay endanger public health or the environment. The acceptance should their operations have failed to adequately investigate and human health or the environment. In addition, OCD acceptance compliance with any other federal, state, or local laws and/or reg	replete to the best of my knowledge and understand that pursuant to OCD rules retain release notifications and perform corrective actions for releases which to of a C-141 report by the OCD does not relieve the operator of liability remediate contamination that pose a threat to groundwater, surface water, of a C-141 report does not relieve the operator of responsibility for gulations. The responsible party acknowledges they must substantially conditions that existed prior to the release or their final land use in e OCD when reclamation and re-vegetation are complete. Title: Director, Environmental Date:
OCD O-1	
OCD Only	
Received by:	Date:
Closure approval by the OCD does not relieve the responsible paremediate contamination that poses a threat to groundwater, surfaparty of compliance with any other federal, state, or local laws an	rty of liability should their operations have failed to adequately investigate and ce water, human health, or the environment nor does not relieve the responsible ad/or regulations.
Closure Approved by: Nelson Velez Printed Name: Nelson Velez	Date:05/20/2022
Printed Name: Nelson Velez	Title:Environmental Specialist – Adv



CLOSURE REPORT

Property:

Lateral 3B-7 Hydrotest Release NE ¼, S3 T29N R11W San Juan County, New Mexico

September 18, 2020 Ensolum Project No. 05A1226101

Prepared for:

Enterprise Field Services, LLC 614 Reilly Avenue Farmington, NM 87401 Attn: Mr. Thomas Long

Prepared by:

Chad D'Aponti

Field Environmental Scientist

Landon Daniell Staff Geologist

Kyle Summers, CPG Senior Project Manager

ummy

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5.0	SOIL LABORATORY ANALYTICAL METHODS								
6.0	DATA	EVAL	VATION						
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CLOSURE REPORT

Lateral 3B-7 Hydrotest Release NE ¼, S3 T29N R11W San Juan County, New Mexico

Ensolum Project No. 05A1226101

1.0 INTRODUCTION

1.1 Site Description & Background

Operator:	Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise)
Site Name:	Lateral 3B-7 Hydrotest Release
Location:	36.75538° North, 107.97539° West Northeast (NE) ¼ of Section 3, Township 29 North, Range 11 West San Juan County, New Mexico
Property:	Private Property
Regulatory:	New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On April 7, 2020, while initiating a hydrostatic pressure test utilizing potable water on the Lateral 3B-7 pipeline, a leak was identified. On April 14, 2020, Enterprise initiated activities to disconnect and cap the affected pipeline and remediate potential petroleum hydrocarbon impact resulting from the release. The pipeline is not in service.

A **Topographic Map** depicting the location of the Site is included as **Figure 1**, and a **Site Vicinity Map** is included as **Figure 2** in **Appendix A**.

1.2 Project Objective

The primary objective of the closure activities was to reduce constituent of concern (COC) concentrations in the on-Site soils to below the applicable New Mexico EMNRD OCD closure criteria.

2.0 CLOSURE CRITERIA

The Site is subject to regulatory oversight by the New Mexico EMNRD OCD. To address activities related to oil and gas releases, the New Mexico EMNRD OCD references New Mexico Administrative Code (NMAC) 19.15.29 *Releases*, which establishes investigation and abatement action requirements for oil and gas release sites that are subject to reporting and/or corrective action. Ensolum, LLC (Ensolum) utilized information provided by Enterprise, the general site characteristics, and information available from the New Mexico Office of the State Engineer (OSE) and the New Mexico EMNRD OCD imaging database to determine the appropriate closure criteria for the Site. Supporting documentation and figures associated with the following bullets are provided in **Appendix B**.

The OSE tracks the usage and assignment of water rights and water well installations and records
this information in the Water Rights Reporting System (WRRS) database. Water wells and other
points of diversion (PODs) are each assigned POD numbers in the database (which is searchable
and includes an interactive map). Four (4) PODs (SJ-01995, SJ-01887, SJ-03658, and SJ-04046



POD1-POD8) were identified in the OSE WRRS database within a one-mile radius of the Site. No depths to water are listed for SJ-01995, SJ-01887, or SJ-03658, but the total depths of the wells range from 50 feet bgs to 100 feet bgs. The plugging plan documents for the monitoring well network (SJ 04046 POD1-POD8) that was located at the Conoco Phillips Company Martin 34 No. 2 well site, approximately 0.55 miles north of the Site and at a higher elevation (5,764 feet) than the Site (5,714 feet), indicate an average depth to water of 40 feet bgs. The average depth to water for additional PODs located over one (1) mile in adjacent Sections is approximately 47 feet bgs. Supporting documentation is provided in **Appendix B**.

- No cathodic-protection wells were identified within one mile of the Site.
- The Site is located within 300 feet of a New Mexico EMNRD OCD-defined continuously flowing watercourse or significant watercourse. An ephemeral wash is located approximately 200 feet west of the location.
- The Site is not located within 200 feet of a lakebed, sinkhole, or playa lake.
- The Site is not located within 300 feet of a permanent residence, school, hospital, institution, or church. The nearest permanent residence is located approximately 530 feet north of the Site.
- According to information provided in the OSE WRRS database, no springs or private domestic fresh water wells used by less than five (5) households for domestic or stock watering purposes were identified within 500 feet of the Site.
- According to information provided in the OSE WRRS database there is one (1) fresh water well
 within 1,000 feet of the Site. POD SJ-01995 is located approximately 625 feet northwest of the Site.
 Additionally, there are residences located less than 1,000 feet from the Site that may have
 unregistered water wells.
- The Site is located within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to New Mexico Statutes Annotated (NMSA) 1978, Section 3-27-3. The Site is located within the City of Bloomfield.
- Based on information identified in the U.S. Fish & Wildlife Service National Wetlands Inventory Wetlands Mapper, the Site is not located within 300 feet of a wetland.
- Based on information identified on the New Mexico Mining and Minerals Division's Geographic Information System (GIS), Maps and Mine Data database, the Site is not located within an area overlying a subsurface mine.
- The Site is not located within an unstable area.
- Based on information identified in the Federal Emergency Management Agency (FEMA) National Flood Hazard Layer (NFHL) geospatial database, the Site is not located within a 100-year floodplain.

Based on the identified siting criteria, cleanup goals for soils remaining in place at the Site include:



Closure Criteria for Soils Impacted by a Release									
Constituent	Method	Limit							
Chloride	EPA 300.0 or SM4500 CI B	600 mg/kg							
TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015	100 mg/kg							
BTEX	EPA SW-846 Method 8021	50 mg/kg							
Benzene	EPA SW-846 Method 8021	10 mg/kg							

3.0 SOIL REMEDIATION ACTIVITIES

On April 14, 2020, Enterprise initiated activities to disconnect and cap the affected pipeline and remediate potential petroleum hydrocarbon impact resulting from the release. During the remediation and corrective action activities, Riley Industrial Services, Inc., and Sierra Oilfield Services, Inc., provided heavy equipment and labor support, while Ensolum provided environmental consulting support.

The final excavation measured approximately 14 feet long and 10 feet wide at the maximum extents, with a maximum depth of approximately seven (7) feet bgs. The flow path measured approximately 700 feet long, with an average width of approximately two (2) feet. The flow path exhibited minimal vertical saturation.

The lithology encountered during the completion of remediation activities consisted of unconsolidated silty sandy clay.

A total of approximately 45 barrels (bbls) of hydro-excavation soil cuttings and water were transported to the Industrial Ecosystems, Inc. (IEI) landfarm on Crouch Mesa near Aztec, New Mexico for disposal/remediation. The executed C-138 solid waste acceptance form is provided in **Appendix C**. The excavation was backfilled with imported fill and was subsequently contoured to the surrounding grade.

Figure 3 (**Appendix A**) is a map that identifies the approximate soil sample locations and depicts the approximate dimensions of the excavation with respect to the pipeline. Photographic documentation of the field activities is included in **Appendix D**.

4.0 SOIL SAMPLING PROGRAM

Ensolum field screened the soil samples from the excavation and the flow path utilizing a photoionization detector (PID) fitted with a 10.6 eV lamp to guide excavation extents.

Ensolum's soil sampling program included the collection of five (5) composite soil samples (S-1 through S-5) and seven (7) composite soil flow-path samples (FP-1 through FP-7), comprised of five (5) aliquots each, from the excavation for laboratory analysis. A clean shovel was utilized to obtain fresh aliquots from each area of the flow path. A backhoe bucket was utilized to collect aliquots from the sidewalls and floor of the excavation. The New Mexico EMNRD OCD provided verbal approval to proceed with the sampling events although a New Mexico EMNRD OCD representative was not present during sampling activities.

First Sampling Event

On April 14, 2020, composite soil samples FP-1 through FP-7 (all at depths of 0' to 0.25') were collected from the flow path.



Second Sampling Event

On April 22, 2020, composite soil sample S-1 (7') was collected from the floor of the excavation. Composite soil samples S-2 (0-7'), S-3 (0-7'), S-4 (0-7'), and S-5 (0-7') were collected from the sidewalls of the excavation.

The soil samples were collected and placed in laboratory prepared glassware. The containers were labeled and sealed using the laboratory supplied labels and custody seals and were stored on ice in a cooler. The samples were relinquished to the courier for Hall Environmental Analysis Laboratory of Albuquerque, New Mexico, under proper chain-of-custody procedures.

5.0 SOIL LABORATORY ANALYTICAL METHODS

The composite soil samples were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX) using Environmental Protection Agency (EPA) SW-846 Method #8021; total petroleum hydrocarbon (TPH) gasoline range organics (GRO), diesel range organics (DRO), and motor oil/lube oil range organics (MRO) using EPA SW-846 Method #8015; and chlorides using EPA Method #300.0.

The laboratory analytical results are summarized in **Table 1** in **Appendix E**. The laboratory data sheets and executed chain-of-custody forms are provided in **Appendix F**.

6.0 DATA EVALUATION

Ensolum compared the BTEX, TPH, and chloride laboratory analytical concentrations or laboratory supplied practical quantitation limits (PQLs) / reporting limits (RLs) associated with the composite soil samples (S-1 through S-19 and FP-1 through FP-7) to the applicable New Mexico EMNRD OCD closure criteria.

- The laboratory analytical results for the composite soil samples indicate that benzene is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable New Mexico EMNRD OCD closure criteria of 10 milligrams per kilogram (mg/kg).
- The laboratory analytical results for the composite soil samples indicate that total BTEX is not
 present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable
 New Mexico EMNRD OCD closure criteria of 50 mg/kg.
- The laboratory analytical results for composite soil samples S-3 and S-4 indicate a combined TPH GRO/DRO/MRO concentration of 28 mg/kg and 29 mg/kg, respectively, which do not exceed the applicable New Mexico EMNRD OCD closure criteria of 100 mg/kg. The laboratory analytical results for the remaining composite soil samples indicate combined TPH GRO/DRO/MRO is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable New Mexico EMNRD OCD closure criteria of 100 mg/kg.
- The laboratory analytical results for the composite soil samples indicate that chloride is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable New Mexico EMNRD OCD closure criteria of 600 mg/kg for chlorides.

The laboratory analytical results are summarized in **Table 1** (**Appendix E**).

7.0 RECLAMATION/REVEGETATION

Enterprise backfilled the excavation with imported fill and resurfaced it to provide a suitable driving surface.



8.0 FINDINGS AND RECOMMENDATION

- A total of 12 composite soil samples were collected from the excavation and flow path. Based on laboratory analytical results, the soils remaining in place do not exhibit COC concentrations above the applicable New Mexico EMNRD OCD closure criteria.
- A total of approximately 45 bbls of hydro-excavation soil cuttings and water were transported to the IEI landfarm for disposal/remediation. The excavation was backfilled with imported fill and was subsequently contoured to the surrounding grade.

Based on field observations and laboratory analytical results, no additional investigation or corrective action appears warranted at this time.

9.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE

9.1 Standard of Care

Ensolum's services were performed in accordance with standards customarily provided by a firm rendering the same or similar services in the area during the same time period. Ensolum makes no warranties, express or implied, as to the services performed hereunder. Additionally, Ensolum does not warrant the work of third parties supplying information used in the report (e.g. laboratories, regulatory agencies, or other third parties).

9.2 Limitations

Findings, conclusions, and recommendations resulting from these services are based upon information derived from the on-site activities and other services performed under this scope of work and it should be noted that this information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, or not present during these services, and Ensolum cannot represent that the Site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during the investigation. Environmental conditions at other areas or portions of the Site may vary from those encountered at actual sample locations. Ensolum's findings and recommendation are based solely upon data available to Ensolum at the time of these services.

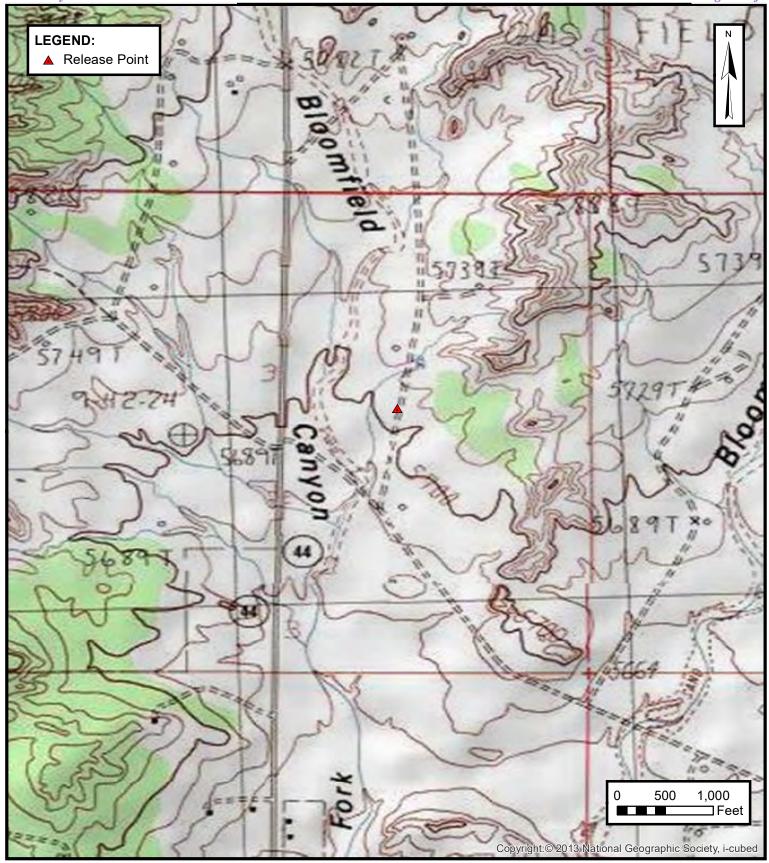
9.3 Reliance

This report has been prepared for the exclusive use of Enterprise, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the express written authorization of Enterprise and Ensolum. Any unauthorized distribution or reuse is at the client's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions and limitations stated in the Closure Report, and Ensolum's Master Services Agreement. The limitation of liability defined in the agreement is the aggregate limit of Ensolum's liability to the client.



APPENDIX A

Figures





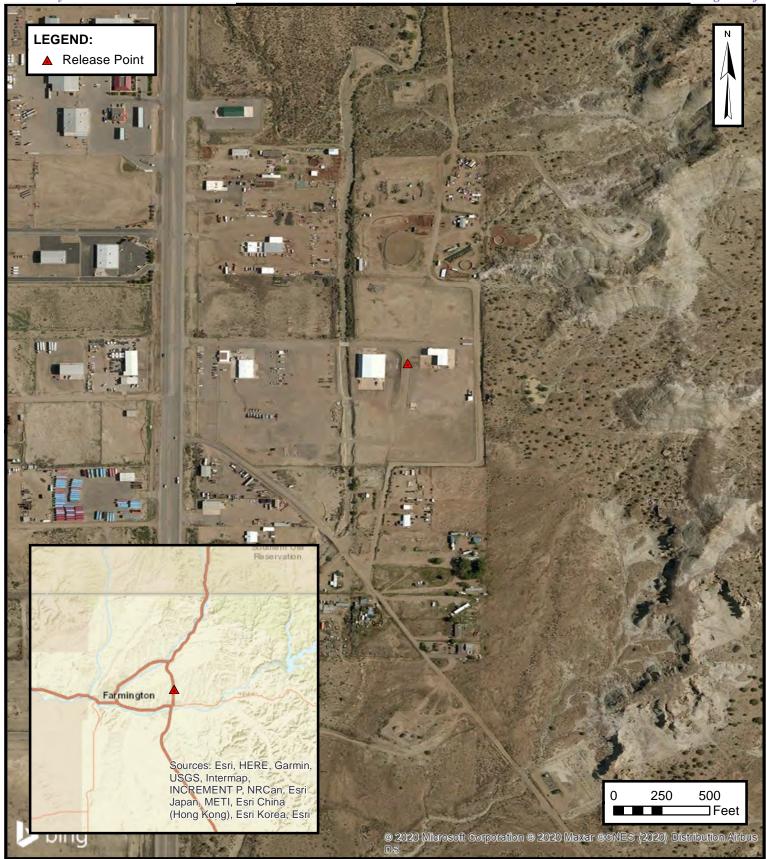
TOPOGRAPHIC MAP

ENTERPRISE FIELD SERVICES, LLC LATERAL 3B-7 HYDROTEST NE ¼, S3 T29N 11W, San Juan County, New Mexico 36.75538° N, 107.97539° W

PROJECT NUMBER: 05A1226101

FIGURE

1





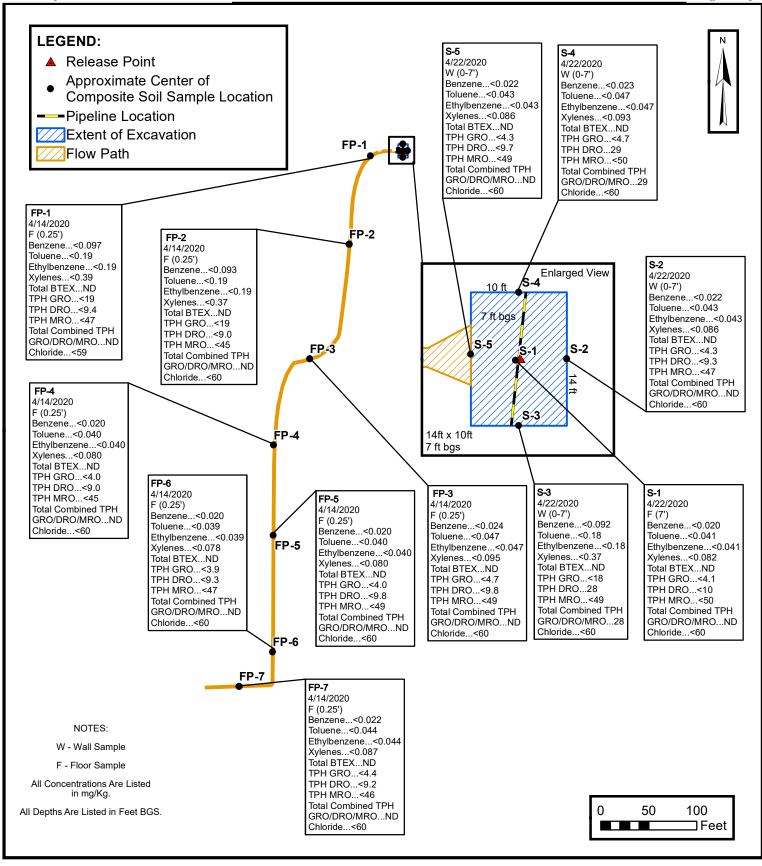
SITE VICINITY MAP

ENTERPRISE FIELD SERVICES, LLC LATERAL 3B-7 HYDROTEST NE ¼, S3 T29N R11W, San Juan County, New Mexico 36.75538° N, 107.97539° W

PROJECT NUMBER: 05A1226101

FIGURE

2





Environmental & Hydrogeologic Consultants

SITE MAP

ENTERPRISE FIELD SERVICES, LLC LATERAL 3B-7 HYDROTEST RELEASE NE ¼, S3 T29N 11W, San Juan County, New Mexico 36.75538° N, 107.97539° W

PROJECT NUMBER: 05A1226101

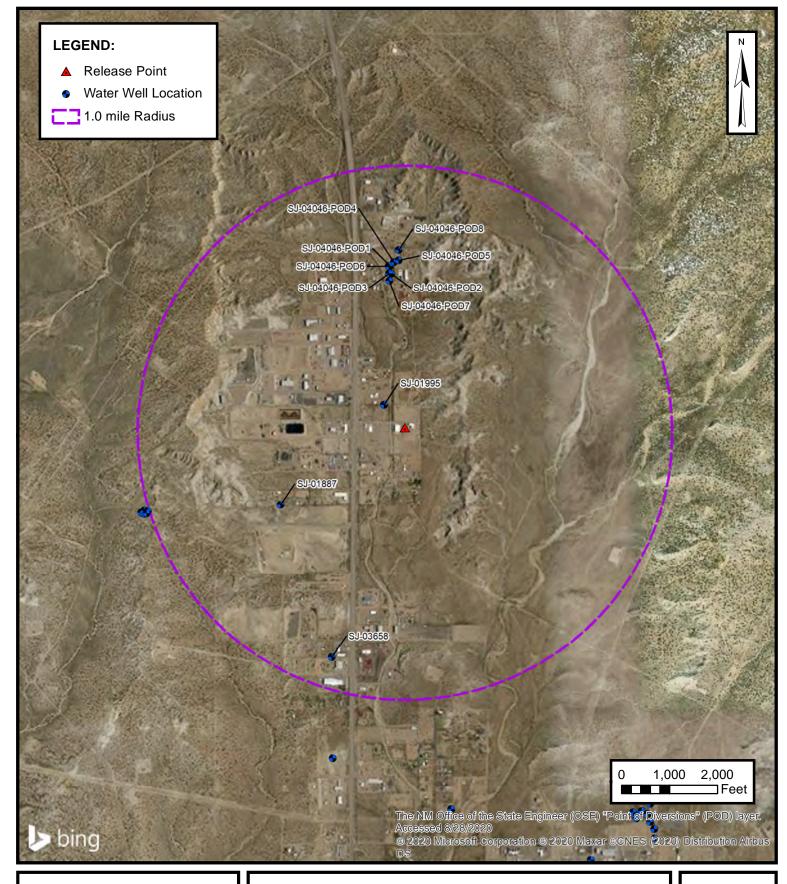
FIGURE

3



APPENDIX B

Siting Documentation





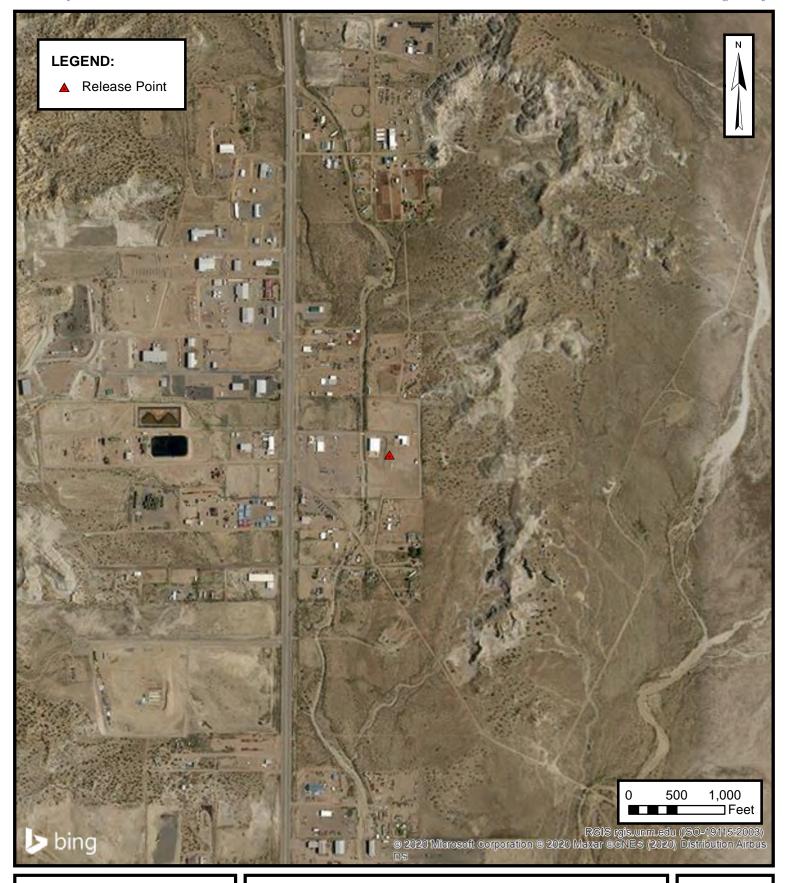
ONE MILE RADIUS WATER WELL MAP

ENTERPRISE FIELD SERVICES, LLC LATERAL 3B-7 HYDROTEST RELEASE NE ¼, S3 T29N R11W, San Juan County, New Mexico 36.75538° N, 107.97539° W

PROJECT NUMBER: 05A1226101

FIGURE







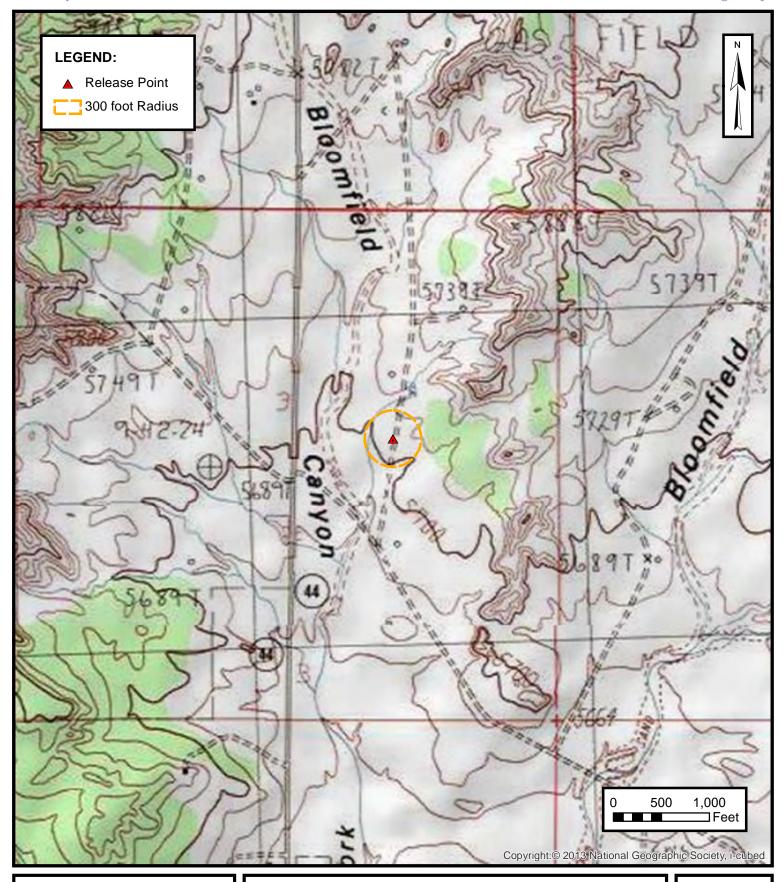
CATHODIC PROTECTION WELL RECORDED DEPTH TO WATER

ENTERPRISE FIELD SERVICES, LLC LATERAL 3B-7 HYDROTEST RELEASE NE ¼, S3 T29N R11W, San Juan County, New Mexico 36.75538° N, 107.97539° W

PROJECT NUMBER: 05A1226101

FIGURE

B





300-FOOT RADIUS WATERCOURSE AND DRAINAGE IDENTIFICATION

ENTERPRISE FIELD SERVICES, LLC LATERAL 3B-7 HYDROTEST RELEASE NE ¼, S3 T29N R11W, San Juan County, New Mexico 36.75538° N, 107.97539° W

PROJECT NUMBER: 05A1226101

FIGURE

C





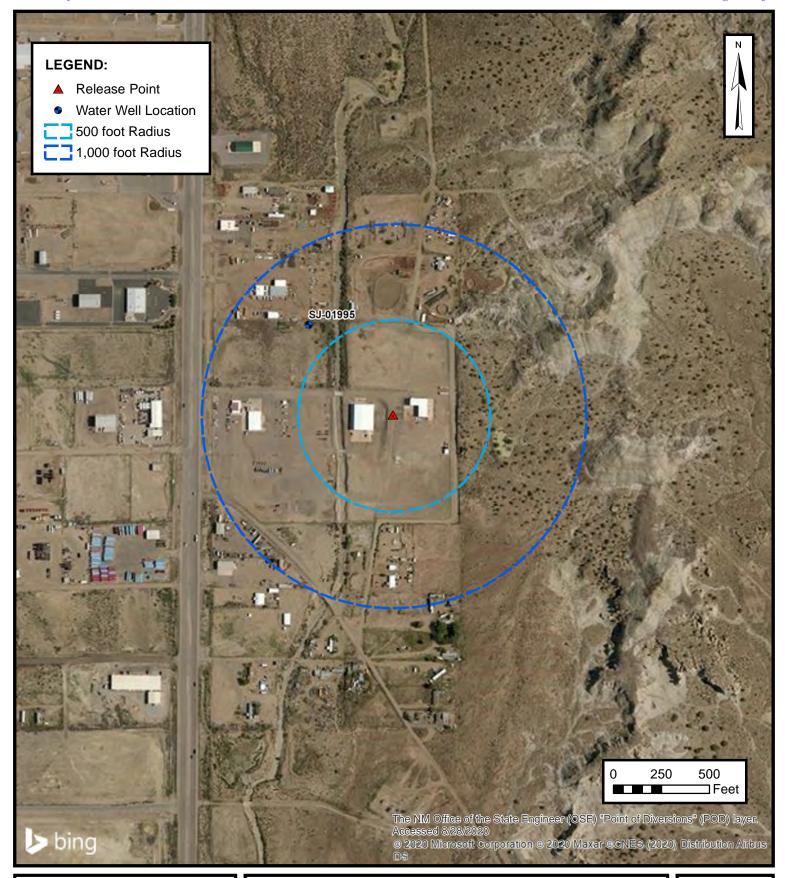
300-FOOT RADIUS OCCUPIED STRUCTURE IDENTIFICATION

ENTERPRISE FIELD SERVICES, LLC LATERAL 3B-7 HYDROTEST RELEASE NE ¼, S3 T29N R11W, San Juan County, New Mexico 36.75538° N, 107.97539° W

PROJECT NUMBER: 05A1226101

FIGURE

D





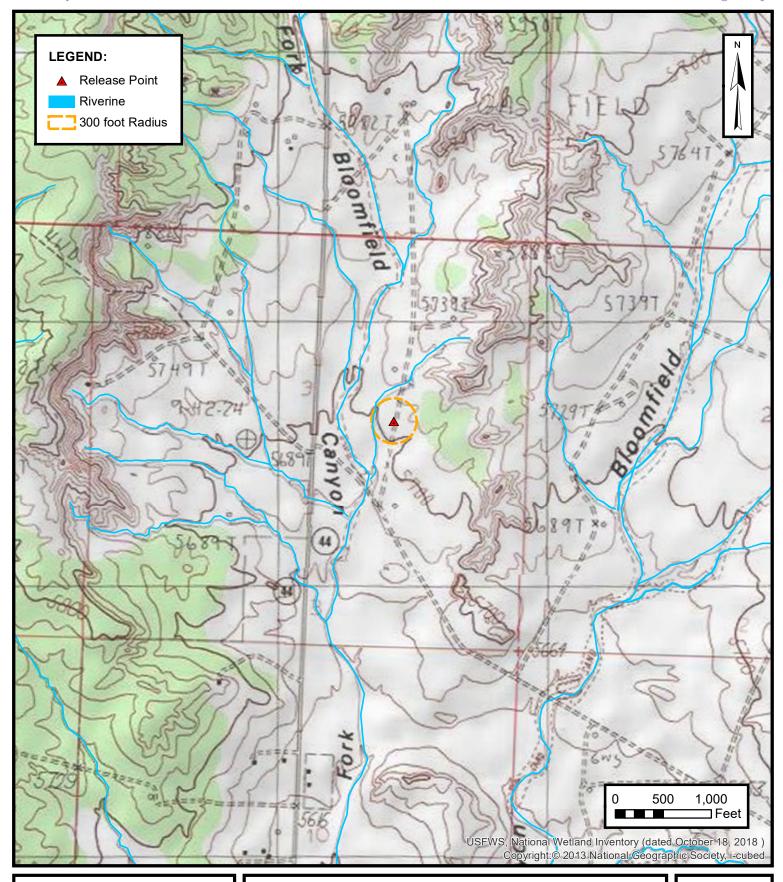
WATER WELL AND NATURAL SPRING LOCATION

ENTERPRISE FIELD SERVICES, LLC LATERAL 3B-7 HYDROTEST RELEASE NE ¼, S3 T29N R11W, San Juan County, New Mexico 36.75538° N, 107.97539° W

PROJECT NUMBER: 05A1226101

FIGURE

E





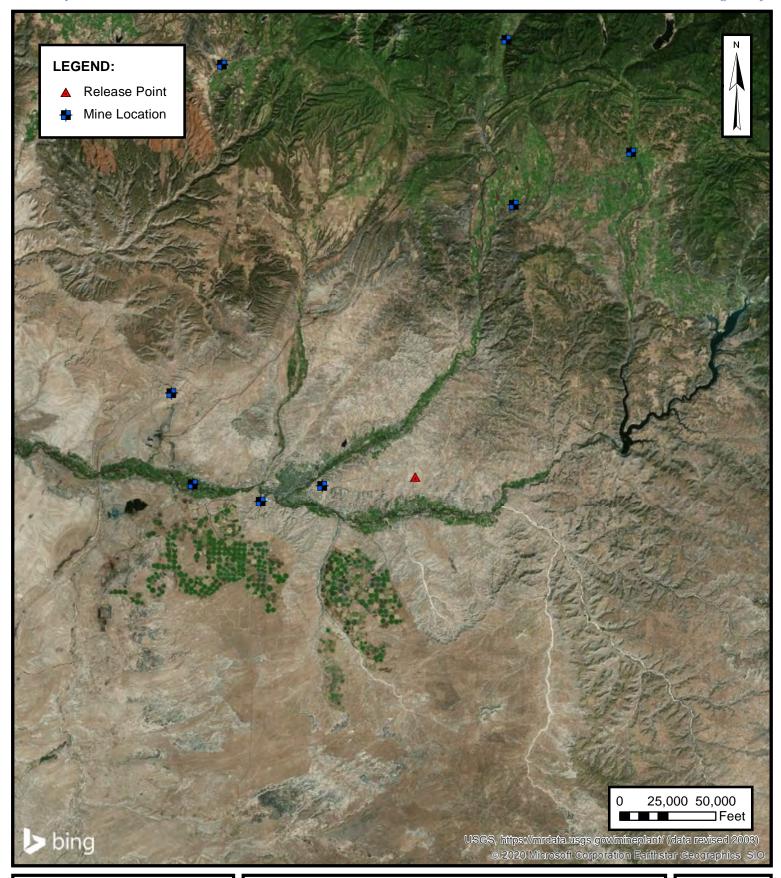
WETLANDS

ENTERPRISE FIELD SERVICES, LLC LATERAL 3B-7 HYDROTEST RELEASE NE ¼, S3 T29N R11W, San Juan County, New Mexico 36.75538° N, 107.97539° W

PROJECT NUMBER: 05A1226101

FIGURE

F





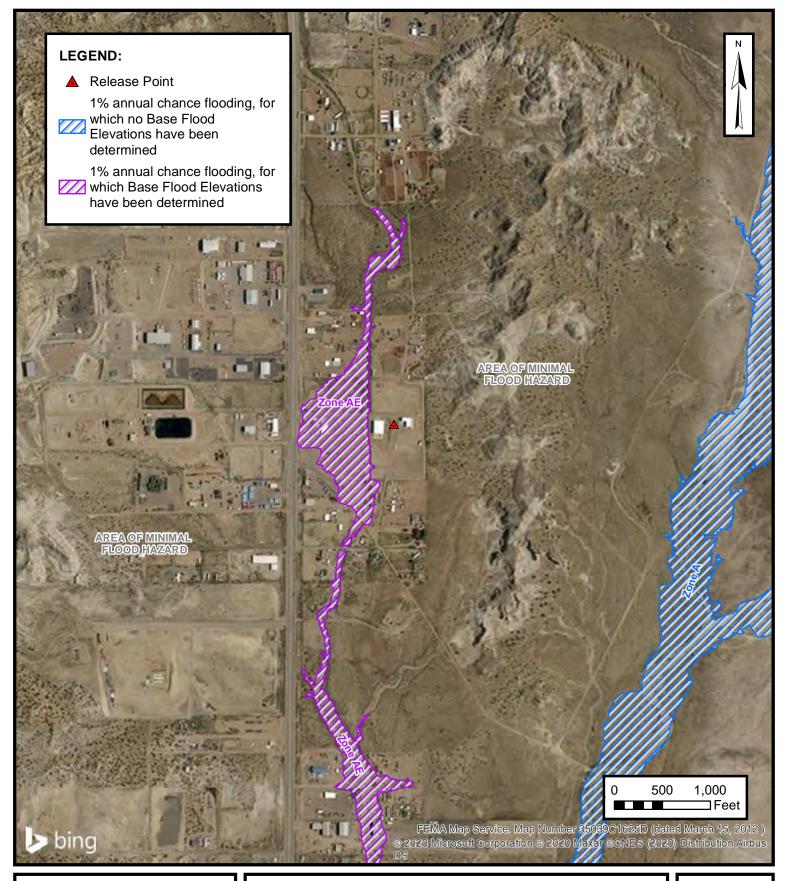
MINES, MILLS AND QUARRIES

ENTERPRISE FIELD SERVICES, LLC LATERAL 3B-7 HYDROTEST RELEASE NE ¼, S3 T29N R11W, San Juan County, New Mexico 36.75538° N, 107.97539° W

PROJECT NUMBER: 05A1226101

FIGURE

G





100-YEAR FLOOD PLAIN MAP

ENTERPRISE FIELD SERVICES, LLC LATERAL 3B-7 HYDROTEST RELEASE NE ¼, S3 T29N R11W, San Juan County, New Mexico 36.75538° N, 107.97539° W

PROJECT NUMBER: 05A1226101

FIGURE

H

(In feet)



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,

closed)

C=the file is (qu

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

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

POD Number	POD Sub- Code basin	County	Q (: Tws	Rng	x	Y		Depth Water	Water Column
SJ 01851	SJM2	SJ		4	10	29N		234586	4069572* 🎒	125	48	77
SJ 02466	SJM2	SJ	3 3	4	11	29N	11W	235669	4069518 🌍	66		
SJ 02466 S	SJM2	SJ	3 3	4	11	29N	11W	235693	4069503 🌕	65		
SJ 04254 POD1	SJ	SJ	3	4	11	29N	11W	235793	4069359 🌑	100	63	37
SJ 04254 POD2	SJ	SJ	3	4	11	29N	11W	235791	4069416 🎒	102	60	42
SJ 04254 POD3	SJ	SJ	3	4	11	29N	11W	235688	4069482 🎒	85	46	39
SJ 04254 POD4	SJ	SJ	3	4	11	29N	11W	235754	4069504 🌍	100	41	59
SJ 04254 POD5	SJ	SJ	3	4	11	29N	11W	235721	4069524 🎒	100	63	37
SJ 04254 POD6	SJ	SJ	3	4	11	29N	11W	235774	4069567 🎒	100	64	36
SJ 04254 POD7	SJ	SJ	3	4	11	29N	11W	235615	4069664 🌍	85	35	50
SJ 04254 POD8	SJ	SJ	3	4	11	29N	11W	235667	4069675 🌑	88	39	49
SJ 04254 POD9	SJ	SJ	3	4	11	29N	11W	235645	4069741 🌑	79	23	56

Average Depth to Water: 48 feet

Minimum Depth: 23 feet

Maximum Depth: 64 feet

Record Count: 12

PLSS Search:

Section(s): 3, 2, 4, 9, 10, 11 Township: 29N Range: 11W

*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.



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

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

C=the file is closed)

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

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

(In feet)

 POD

 Sub Q Q Q
 Depth Depth Water

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

 SJ 03841 POD10
 SJ SJ SJ 3 34 30N 11W 261236 4075354
 42 30 12

Average Depth to Water: 30 feet

Minimum Depth: 30 feet

Maximum Depth: 30 feet

Record Count: 1

PLSS Search:

Section(s): 33, 34, 35 Township: 30N Range: 11W



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

State I	Engineer Well Number: SJ-4046 POD1	(IVIVV-I)			505	EGA 0722			
		*		Phone	No.: 505	-564-0733			_
	ng address: PO Box 4700						0740		
City:	Farmington	State: _		MM		_ Zip code	e: 8/49	9	
II. W	ELL PLUGGING INFORMATION:		CAMATINA						
1)	Name of well drilling company that I	plugged well:	OMAT Inc.						_
2)	New Mexico Well Driller License N	o.: WD-1762			Expira	tion Date:	8/30/18		
3)	Well plugging activities were superv Kalvin Padilla	ised by the follow	ring well driller(s)/rig su	pervisor(s):			
4)	Date well plugging began: 2-20-18	3	Date well plu	gging co	oncluded:	2-20-18			
5)	GPS Well Location: Latitude: Longitude	36 (e:	deg, 45 deg, 58	_ min, _ min,	50.40 34.808	_ sec, WGS	S 84		
6)	Depth of well confirmed at initiation by the following manner: Water Lev	of plugging as: _ el Indicator	41.4 ft bel	low grou	and level (bgl),			
7)	Static water level measured at initiat	ion of plugging:	37.1 ft bg	1					
8)	Date well plugging plan of operation	s was approved by	y the State Engir	neer:	2/12/18	_			
9)	Were all plugging activities consiste differences between the approved plugging activities consisted approved plugging activities approved activities approved activities approved activities approved activities approved activities approved activities activities activities activities approved activities ac	nt with an approve ugging plan and th	ed plugging plan ne well as it was	n? plugged	YES I (attach ac	_ If not, Iditional pa	please ges as ne	desc	ribe d):
							1	3	
							0		T
							2	O	
							1		4

Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
_	Type II Cement and 5% bentonite	6.5	6.62	Tremmie	Casing cut 6" below ground surface.
-					
_	,				
-					
_					
-					
_					22
-				-	STATE BY AZTEC 2010 MAR
-					<u> </u>
					AM II: 00
-					9 M
-	1				
	1	MULTIPLY If cubic feet x 7.4 cubic yards x 201.5	3Y AND OBTAIN 1805 = gallons 97 = gallons	1	

III. SIGNATURE:

I,	George A. Madrid	, sa	y that	Ι:	am	familiar	with	the	rules	of	the	Office	of	the	State
E	ngineer pertaining to the plugging of wells and that	each	and a	11 o	f the	stateme	nts in	this	Plugg	ging	Rec	ord an	d at	tach	ments
ar	e true to the best of my knowledge and belief.						40								

Signature of Well Driller

Date

02-27-2018

Version: September 8, 2009 Page 2 of 2



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

	NERAL / WELL OWNERSHIP:				
State 1	Engineer Well Number: SJ-4046 POD2	2 (MW-2)			
			Phone No.:	505-564-0733	
City:	Farmington	State:	NM	Zip code:	87499
II. W	ELL PLUGGING INFORMATION:				
1)	Name of well drilling company that	plugged well: GEOMA	T Inc.		
2)	New Mexico Well Driller License N	o.: WD-1762	E	Expiration Date: 8	/30/18
3)	Well plugging activities were superv Kalvin Padilla	rised by the following w	ell driller(s)/rig superv	isor(s):	
4)	Date well plugging began: 2-20-18	B Dat	te well plugging conclu	ded: 2-20-18	
5)	GPS Well Location: Latitude: Longitude	36 deg, _ e:deg, _	45 min, 48 58 min, 34	3.60 sec 4.80 sec, WGS 8	34
6)	Depth of well confirmed at initiation by the following manner: Water Lev	of plugging as:40.s	9 ft below ground le	evel (bgl),	
7)	Static water level measured at initiat	ion of plugging:36.	0 ft bgl		
8)	Date well plugging plan of operation	ns was approved by the S	State Engineer: 2/12/	2018	
9)	Were all plugging activities consiste differences between the approved pl	nt with an approved pluguing plan and the wel	gging plan? YES I as it was plugged (atta	If not, pach additional page	lease describe es as needed):
					AZIEC, NEW MEXICO

Version: September 8, 2009 Page 1 of 2

Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging <u>Material Used</u> (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	Type II Cement and 5% bentonite	6.46	6.54	Tremmie	Casing cut 6" below ground surface.
					STATE ENGINEER OFFICE AZTEO, NEW MEXICO
_]	MULTIPLY E	BY AND OBTAIN 1805 = gallons		

III. SIGNATURE:

I, George A. Madrid	, Sa	ay that	I an	n familiar	with	the	rules	of	the	Office	of	the	State
Engineer pertaining to the plugging of wells and that	each	and al	of t	he stateme	nts in	this	Plugg	ging	Rec	ord and	l att	tachi	ments
are true to the best of my knowledge and belief.													

Signature of Well Driller

Date

Version: September 8, 2009 Page 2 of 2

02-27-2018



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

	ENERAL / WELL OWNERSHIP:	DO (MANA) O)			
State	Engineer Well Number: SJ-4046 POI	D3 (MVV-3)	127	505 504 0700	
			Phone No.:	505-564-0733	
	ng address: PO Box 4700				
City:	Farmington	State:	NM	Zip code: <u>87499</u>	
II. W	/ELL PLUGGING INFORMATIO!	N:			
1)	Name of well drilling company that		T Inc.		
2)	New Mexico Well Driller License			Expiration Date: 8/30/18	
3)	Well plugging activities were supe Kalvin Padilla	ervised by the following w	ell driller(s)/rig superv	isor(s):	
4)	Date well plugging began: 2-20-	18 Da	e well plugging conclu		
5)	GPS Well Location: Latitude Longitu	e: <u>36</u> deg, _ ude: <u>-107</u> deg, _	111111,	XXX 48.84 sec sec, WGS 84	
6)	Depth of well confirmed at initiation by the following manner: Water L	on of plugging as:45. evel Indicator	ft below ground l	34.97 evel (bgl),	
7)	Static water level measured at initi	ation of plugging:35.	4 ft bgl		
8)	Date well plugging plan of operation	ons was approved by the S	State Engineer: 2-12	2-18	
9)	Were all plugging activities consis differences between the approved	tent with an approved plu plugging plan and the wel	gging plan?YES	If not, please deach additional pages as need	scribe ed):
					AZTEC, NEW MEXICO

Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging <u>Material Used</u> (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	Type II Cement and 5% bentonite	7.20	7.28	Tremmie	Casing cut 6" below ground surface.
		MULTIPLY cubic feet x 7.4	BY AND OBTAIN 4805 = gallons		STATE ENGINEER OFFICE AZTEC, NEW MEXICO

III. SIGNATURE:

I, George A. Madrid , say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

cubic yards

a journal

02-27-2018

Signature of Well Driller

gallons

Date

Version: September 8, 2009 Page 2 of 2



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

State	Engineer Well Number: SJ-4046 POD4	(10100-4)				
Well	owner: Hilcorp Energy		Phone No.:	505-564-0733		
Maili	ng address: PO Box 4700					
City:	Farmington	State:	NM	Zip code:	87499	
II. W	ELL PLUGGING INFORMATION:					
1)	Name of well drilling company that p	lugged well: GEOMA	T Inc.			
2)	New Mexico Well Driller License No	o.: WD-1762	I	Expiration Date: 8/	30/18	
3)	Well plugging activities were supervi Kalvin Padilla	sed by the following w	rell driller(s)/rig superv	isor(s):		8
4)	Date well plugging began: 2-20-18	Da	te well plugging conclu	ıded: 2-20-18		
5)	GPS Well Location: Latitude: _ Longitude		45 min, 5 58 min, 34	1.00 sec 4.20 sec, WGS 8	4	
6)	Depth of well confirmed at initiation by the following manner: Water Leve	of plugging as:52. el Indicator	5 ft below ground le	evel (bgl),		
7)	Static water level measured at initiation	on of plugging:38	6 ft bgl			
8)	Date well plugging plan of operations	s was approved by the	State Engineer: 2-12	2-18		
9)	Were all plugging activities consisten differences between the approved plu					
					18 MAR -1 AM 11: 00	AZTEC, NEW MEXICO

Version: September 8, 2009 Page 1 of 2

Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with 10) horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
_	Type II Cement and 5% bentonite	8.32	8.40	Tremmie	Casing cut 6" below ground surface.
]	8			
_					
_					
]				
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]				
-	-				
_]				S 00
-					STATE EN AZTECO.
]				5 15 N
-					
-	-				AM II: 00
_					8 %
-	-				
_					
-	-				
	1	MULTIPLY I cubic feet x 7.4	3Y AND OBTAIN 1805 = gallons 27 = gallons	ı	1

III. SIGNATURE:

I, George A. Madrid , say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

02-27-2018

Signature of Well Driller

Date

Version: September 8, 2009 Page 2 of 2



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

	ENERAL / WELL OWNERSH			
State	Engineer Well Number: SJ-404	6 POD 5 (MW-5)		FOE FC4 0722
Well owner: Hilcorp Energy			Phone No	. 505-564-0733
Maili	ng address: PO Box 4700			
City:	Farmington	State:	NM	Zip code: 87499
II. V	ELL PLUGGING INFORMA			
1)	Name of well drilling compa	ny that plugged well: GEON	IAT Inc.	
2)	New Mexico Well Driller Lie	cense No.: WD-1762		Expiration Date: 8/30/18
3)	Well plugging activities were Kalvin Padilla	e supervised by the following	well driller(s)/rig super	visor(s):
4)	Date well plugging began: 2	2-20-18	Date well plugging conc	uded: 2-20-18
5)		atitude: 36 deg, ongitude: -107 deg,		51.60 sec 33.00 sec, WGS 84
6)	Depth of well confirmed at ir by the following manner: We	ater Level Indicator	8.0 ft below ground	level (bgl),
7)	Static water level measured a		37.6 1X6 X ft bgl	
8)	Date well plugging plan of op	perations was approved by the	e State Engineer: 2-	2-17
9)	Were all plugging activities of differences between the approximation	consistent with an approved poved plugging plan and the w	lugging plan? YE rell as it was plugged (at	If not, please describe tach additional pages as needed):
				STATE ENGINEER OFFICE AZTEC, NEW MEXICO 2018 MAR - 1 AM 11: 00

Version: September 8, 2009 Page 1 of 2

Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	Type II Cement and 5% bentonite	7.60	7.68	Tremmie	Casing cut 6" below ground surface.
		MULTIPLY E cubic feet x 7.4	BY AND OBTAIN 1805 = gallons		ZOIB MAR - I . AM II · DO

III. SIGNATURE:

I, George A. Madrid , say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

201.97

cubic yards

Signature of Well Driller

02-27-2018

Date

Version: September 8, 2009 Page 2 of 2



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

	ENERAL / WELL OWNERSHIP:			
State	Engineer Well Number: SJ 4046 PC	DD6 (MW-6)	5	05 564 0722
Well owner: Hilcorp Energy			Phone No.: _5	05-304-0733
	ng address: PO Box 4700 Farmington	Citata	NM	7:1 87499
City:	Tamington	State:	1444	Zip code: 87499
II. W	VELL PLUGGING INFORMATIO	N:		
1)	Name of well drilling company th		AT Inc.	
2)	New Mexico Well Driller License			iration Date: 8/30/18
3)	Well plugging activities were sup Kalvin Padilla	ervised by the following	well driller(s)/rig supervisor	r(s):
4)	Date well plugging began: 2-20	-18 D	eate well plugging conclude	d: <u>2-20-18</u>
5)	GPS Well Location: Latitude Longit	de:deg, ude:deg,	45 min, 50.20 58 min, 35.29	sec sec, WGS 84
6)	Depth of well confirmed at initiat by the following manner: Water I	ion of plugging as:58 _evel Indicator	8.0 ft below ground leve	l (bgl),
7)	Static water level measured at init	tiation of plugging:38	8.7 ft bgl	
8)	Date well plugging plan of operat	ions was approved by the	e State Engineer: 2-12-1	7
9)	Were all plugging activities consi differences between the approved			
				ZOIB HAR - I AM II: OO

Version: September 8, 2009

Page 1 of 2

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging <u>Material Used</u> (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
-	Type II Cement and 5% bentonite	9.20	9.26	Tremmie	Casing cut 6" below ground surface.
		MULTIPLY E	BY AND OBTAIN 805 = gallons		STATE ENGINEER OFFICE AZTEC, NEW MEXICO 2010 MAR - 1 AM 11: 00

cubic yards x 201.97 = gallons

III. SIGNATURE:

I, George A. Madrid _ , say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

02-27-2018

Signature of Well Driller

Date

Version: September 8, 2009 Page 2 of 2





NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

	ERAL / WELL OWNER					
State En	gineer Well Number: SJ	4046 POD7 (MW-7)				
	ner: Hilcorp Energy			Phone No.: _	505-564-0733	
	address: PO Box 4700					
City: F	armington	Star	te:	NM	Zip code:	87499
II. WE	LL PLUGGING INFOR	MATION:				
1)	Name of well drilling con	mpany that plugged well:	GEOMAT Inc.			
2)	New Mexico Well Drille	r License No.: WD-1762	2	Exp	piration Date: 8	/30/18
3)	Well plugging activities v Kalvin Padilla	were supervised by the fo	ollowing well dri	ller(s)/rig superviso	r(s):	4.7.1
4)	Date well plugging began	n: <u>2-20-18</u>	Date well	plugging conclude	ed: 2-20-18	
5)	GPS Well Location:	Latitude: 36 Longitude: -107	deg,45 deg,58	min, XXX		34
6)	Depth of well confirmed by the following manner:	at initiation of plugging Water Level Indicator	as:f	t below ground leve	24.99 el (bgl),	
7)	Static water level measur	ed at initiation of pluggin	ng: <u>38.7</u> f	t bgl		
8)	Date well plugging plan	of operations was approv	ed by the State F	Ingineer: 2-12-1	8	
9)	Were all plugging activit differences between the a					
						TEC. NEW MEXICO

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
-	Type II Cement and 5% bentonite	8.27	8.35	Tremmie	Casing cut 6" below ground surface.
		MULTIPLY E cubic feet x 7.4	BY AND OBTAIN BOS = gallons		STATE ENGINEER OFFICE AZTEC, NEW MEXICO

III. SIGNATURE:

I, George A. Madrid , say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

201.97

cubic yards

Signature of Well Driller

gallons

02-27-2018

Date

Watson, Blaine, OSE

From:

Jeff.Walker@ghd.com

Sent:

Thursday, March 29, 2018 1:13 PM

To:

Watson, Blaine, OSE

Subject:

RE: Well Plugging Records; SJ-3885 POD1-POD5 and SJ-4046 POD1-POD8

Attachments:

20180329122939419.pdf

Blaine,

Please see attached corrections to lat/long as called out in your email below. And, yes, SJ4046 MW5 should be 37.6 feet rather than 376.

Please let me know if I can be of further assistance-

Jeff





NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:			
State Engineer Well Number: SJ-4046 POD3 (N	1W-3)	1, 1, 2, 2, 1, 1	
		Phone No.	505-564-0733
Mailing address: PO Box 4700			
City: Farmington	State:	NM	Zip code: 87499
II. WELL PLUGGING INFORMATION:			
1) Name of well drilling company that plu	gged well: GEOMA	Γ Inc.	
2) New Mexico Well Driller License No.:	WD-1762	I	Expiration Date: 8/30/18
 Well plugging activities were supervise Kalvin Padilla 	d by the following we	ell driller(s)/rig superv	isor(s):
4) Date well plugging began: 2-20-18	Dat		nded: 2-20-18
5) GPS Well Location: Latitude: Longitude: _	36 deg,	45 min, 44 58 min, 38	2-60- 5-40- 1-9-7-
6) Depth of well confirmed at initiation of by the following manner: <u>Water Level I</u>	plugging as: 45.5 ndicator		
7) Static water level measured at initiation	of plugging:35.4	ft bgl	
8) Date well plugging plan of operations w	as approved by the S	tate Engineer: 2-12	2-18
Were all plugging activities consistent v differences between the approved plugg	vith an approved plug ing plan and the well	gging plan? YES as it was plugged (atta	If not, please describe ach additional pages as needed):
			,





NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GE	NERAL / WELL OWNERSHIP:							
	ngineer Well Number: SJ 4046 POD7 (MW-7	')						
Well o	wner: Hilcorp Energy		Phone No.: 505-564-0733					
4	g address: PO Box 4700							
City:	Farmington	State	:NM	Zip code: 87499				
II. WI	ELL PLUGGING INFORMATION:							
1)	Name of well drilling company that plugged	well:	GEOMAT Inc.					
2)	New Mexico Well Driller License No.: WE)-1762		Expiration Date: 8/30/18				
3)	Well plugging activities were supervised by Kalvin Padilla	the foll	owing well driller(s)/rig	supervisor(s):				
4)	Date well plugging began: 2-20-18		Date well plugging	g concluded: 2-20-18				
5)	GPS Well Location: Latitude: Longitude:	36 -107	deg,45mindeg,58min	47.33 n, 50.18 sec n, 32.28 sec, WGS 84				
6)	Depth of well confirmed at initiation of plug by the following manner: Water Level Indic	ging as ator	:52.2 ft below g					
7)	Static water level measured at initiation of p	lugging	:38.7 ft bgl					
8)	Date well plugging plan of operations was a	pproved	by the State Engineer:	2-12-18				
9)	Were all plugging activities consistent with differences between the approved plugging p							





NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

	NERAL / WELL OWNE						
	ngineer Well Number: So	1 4046 POD 8 (N	1W-8)				*
	wner: Hilcorp Energy		Phone No.: 505-564-0733				
	g address: PO Box 4700				-		
City: _	armington		State:			NM	Zip code; 87499
II. WE	LL PLUGGING INFO	RMATION:					
1)	Name of well drilling co	mpany that plug	gged well:	GEOMAT	Inc.		
2)	New Mexico Well Drille	er License No.:	WD-1762			3.00-3.04	Expiration Date: 8/30/18
3)	Well plugging activities Kalvin Padilla	were supervised	by the follo	owing wel	l driller	(s)/rig sup	pervisor(s):
4)	Date well plugging bega	n; 2-20-18		Date	well plu	igging co	ncluded: 2-20-18
5)	GPS Well Location:	Latitude: Longitude:	36 -107	deg, deg,	45 58	min, min, _	5.3.36 50.18 sec 32.28 sec. WGS 84
6)	Depth of well confirmed by the following manner	at initiation of p	olugging as:				32.94
7)	Static water level measur	red at initiation of	of plugging:	39.80	ft bg	:1	
8)	Date well plugging plan	of operations wa	as approved	by the Sta	ite Engi	neer:	2-12-18
9)	Were all plugging activit differences between the	ies consistent wapproved pluggi	ith an appro	oved plugg the well a	ing plan s it was	n? plugged	YES If not, please describe (attach additional pages as needed):
			•				



915 Malta Avenue Farmington, New Mexico 87401

LETTER OF TRANSMITTAL

Tel (505) 327-7928 Fax (505) 326-5721

To:	State Engineer			Date:	February 27, 2018				
	NM	OSE District	V Office	Э	Project:	Hilco	orp Martin 34 No. 2	P	
	100	Gossett Driv	e, Suite	e A	Project No.:	GE	OMAT Project 185-2941		
	Aztec, New Mexico 87410		-						
Attn:									
14/			F			The	- fallowing:		
We ar		- Tradi	For	your:		The	e following:		
		mitting		Review		-	Correspondence		
R	Return	ning	X	Files		8	Engineering Report		
X S	Submi	tting		Approva	al	X	Plugging Record		
				Signatu	re				
Copi	ies	Date	Descr	ription	V.				
1		02-27-18		Plugging F 34 No. 2		-4046	POD1-POD8, Hilcorp		
								(C)	6
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								1	5

Delive				_				M 1.00	53
		Delivery		Express			Return Receipt	<u> </u>	SI
F	First C	lass Mail		Courier	Service			0	m
XF	Regula	ar Mail		Other					
				GEOM By:	AT Inc.	w	alil		

. Released to Imaging: 5/20/2022 9:57:56 AM

Distribution: Addressee (1), Jeff Walker, GHD (1)



APPENDIX C

Executed C-138 Solid Waste Acceptance Form

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II

1000 Rio Brazos Road, Aztec, NM 87410

District IV

20 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Oil Conservation Division 1220 South St. Francis Dr.

*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

Received by OCD: 12/3/2020 6:22:32 AM

Form C-138 Revised 08/01/11

Santa Fe, NM 87505 REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

REQUEST FOR ATTROVAL TO ACCEL	
1. Generator Name and Address: Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401	Invoicing Information PayKeyRB21200
2. Originating Site: Lateral 3B-7	
3. Location of Material (Street Address, City, State or ULSTR): UL G Section 3 T29N R11W; 36.75538, -107.97539	8
4. Source and Description of Waste: Source: Hydrocarbon impacted soil. Description: Hydrocarbon impacted soil associated with remediation activities from a nate Estimated Volume 50 (yd³) bbls Known Volume (to be entered by the operator at the	tural gas/hydrostatic pipeline leak.
5. GENERATOR CERTIFICATION STATEMENT OF	WASTE STATUS
I, Thomas Long, representative or authorized agent for Enterprise Products Openerator Signature certify that according to the Resource Conservation and Recovery Act (RCRA) and the Uregulatory determination, the above described waste is: (Check the appropriate classificat	S Environmental Protection Agency's July 1988
RCRA Exempt: Oil field wastes generated from oil and gas exploration and processempt waste. **Operator Use Only: Waste Acceptance Frequency Monthly	duction operations and are not mixed with non- Weekly Per Load
RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed haz subpart D, as amended. The following documentation is attached to demonstrate the the appropriate items)	zardous waste as defined in 40 CFR, part 261,
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge	e
GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STAT	TEMENT FOR LANDFARMS
I, Thomas Long 4-13-2020, representative for Enterprise Products Operating aut Generator Signature the required testing/sign the Generator Waste Testing Certification.	thorizes IEI, Inc. to complete
I,	t to Section 15 of 19.15.36 NMAC. The results
5. Transporter: Riley Industrial	
OCD Permitted Surface Waste Management Facility Name and Facility Permit #: JFJ Landfarm/Industrial Ecosystems, Inc. * Permit #: NM Address of Facility: #49 CR 2150 Aztec, New Mexico Method of Treatment and/or Disposal: Evaporation Injection Treating Plant La	01-0010B
Waste Acceptance Status:	ED (Must Be Maintained As Permanent Record)
PRINT NAME: Coger Tingles TITLE: Tons C IGNATURE: And TELEPHONE NO.:	DATE: 4/13/20



APPENDIX D

Photographic Documentation

SITE PHOTOGRAPHS

Enterprise Field Services, LLC Closure Report Lateral 3B-7 Hydrotest Release Ensolum Project No. 05A1226101



Photograph 1

Photograph Description: View of the flow path.



Photograph 2

Photograph Description: View of the flow path.



Photograph 3

Photograph Description: View of the final pipeline excavation.



SITE PHOTOGRAPHS

Enterprise Field Services, LLC Closure Report Lateral 3B-7 Hydrotest Release Ensolum Project No. 05A1226101



Photograph 4

Photograph Description: View of final excavation after initial restoration.





APPENDIX E

Table 1 – Soil Analytical Summary



TABLE 1 Lateral 3B-7 Hydrotest Release SOIL ANALYTICAL SUMMARY

Sample I.D.	Date	Sample Type C- Composite G - Grab	Sample Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total Combined TPH (GRO/DRO/MRO) (mg/kg)	Chloride (mg/kg)
		Natural Resource ision Closure Crit		10	NE	NE	NE	50				100	600
	Flowpath Composite Soil Samples												
FP-1	4.14.20	С	0 to 0.25	<0.097	<0.19	<0.19	<0.39	ND	<19	<9.4	<47	ND	<59
FP-2	4.14.20	С	0 to 0.25	<0.093	<0.19	<0.19	<0.37	ND	<19	<9.0	<45	ND	<60
FP-3	4.14.20	С	0 to 0.25	<0.024	<0.047	<0.047	<0.095	ND	<4.7	<9.8	<49	ND	<60
FP-4	4.14.20	С	0 to 0.25	<0.020	<0.040	<0.040	<0.080	ND	<4.0	<9.0	<45	ND	<60
FP-5	4.14.20	С	0 to 0.25	<0.020	<0.040	<0.040	<0.080	ND	<4.0	<9.8	<49	ND	<60
FP-6	4.14.20	С	0 to 0.25	<0.020	<0.039	< 0.039	<0.078	ND	<3.9	<9.3	<47	ND	<60
FP-7	4.14.20	С	0 to 0.25	<0.022	<0.044	<0.044	<0.087	ND	<4.4	<9.2	<46	ND	<60
						Excavation Com	posite Soil Sam	oles					
S-1	4.22.20	С	7	<0.020	<0.041	<0.041	<0.082	ND	<4.1	<10	<50	ND	<60
S-2	4.22.20	С	0 to 7	<0.022	<0.043	< 0.043	<0.086	ND	<4.3	<9.3	<47	ND	<60
S-3	4.22.20	С	0 to 7	<0.092	<0.18	<0.18	< 0.37	ND	<18	28	<49	28	<60
S-4	4.22.20	С	0 to 7	<0.023	<0.047	<0.047	<0.093	ND	<4.7	29	<50	29	<60
S-5	4.22.20	С	0 to 7	<0.022	<0.043	<0.043	<0.086	ND	<4.3	<9.7	<49	ND	<60

Note: Concentrations in **bold** and yellow exceed the applicable NM EMNRD Closure Criteria

ND = Not Detected above the Practical Quantitation Limits or Reporting Limits

NA = Not Analyzed

NE = Not Established

mg/kg = milligram per kilogram

BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes

TPH = Total Petroleum Hydrocarbon

GRO = Gasoline Range Organics

DRO = Diesel Range Organics

MRO = Motor Oil/Lube Oil Range Organics



APPENDIX F

Laboratory Data Sheets & Chain of Custody Documentation



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

April 20, 2020

Kyle Summers ENSOLUM 606 S. Rio Grande Suite A Aztec, NM 87410 TEL: (903) 821-5603

FAX:

RE: Lateral 3B-7 OrderNo.: 2004673

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 7 sample(s) on 4/15/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order **2004673**Date Reported: **4/20/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: FP-1

 Project:
 Lateral 3B-7
 Collection Date: 4/14/2020 10:00:00 AM

 Lab ID:
 2004673-001
 Matrix: SOIL
 Received Date: 4/15/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	59	mg/Kg	20	4/15/2020 10:17:26 AM	51821
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	4/15/2020 11:50:02 AM	51820
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	4/15/2020 11:50:02 AM	51820
Surr: DNOP	103	55.1-146	%Rec	1	4/15/2020 11:50:02 AM	51820
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	19	mg/Kg	5	4/15/2020 9:29:42 AM	51772
Surr: BFB	95.1	66.6-105	%Rec	5	4/15/2020 9:29:42 AM	51772
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.097	mg/Kg	5	4/15/2020 9:29:42 AM	51772
Toluene	ND	0.19	mg/Kg	5	4/15/2020 9:29:42 AM	51772
Ethylbenzene	ND	0.19	mg/Kg	5	4/15/2020 9:29:42 AM	51772
Xylenes, Total	ND	0.39	mg/Kg	5	4/15/2020 9:29:42 AM	51772
Surr: 4-Bromofluorobenzene	97.5	80-120	%Rec	5	4/15/2020 9:29:42 AM	51772

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 12

Analytical Report

Lab Order **2004673**Date Reported: **4/20/2020**

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: FP-2

 Project:
 Lateral 3B-7
 Collection Date: 4/14/2020 10:05:00 AM

 Lab ID:
 2004673-002
 Matrix: SOIL
 Received Date: 4/15/2020 8:00:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch Analyses EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride ND 60 mg/Kg 20 4/15/2020 10:29:50 AM 51821 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: JME Diesel Range Organics (DRO) ND 9.0 mg/Kg 4/15/2020 11:05:32 AM 51820 ND 4/15/2020 11:05:32 AM 51820 Motor Oil Range Organics (MRO) 45 mg/Kg 1 Surr: DNOP 99.3 4/15/2020 11:05:32 AM 51820 55.1-146 %Rec **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 5 4/15/2020 9:53:11 AM 51772 19 mg/Kg Surr: BFB 96.1 66.6-105 %Rec 4/15/2020 9:53:11 AM **EPA METHOD 8021B: VOLATILES** Analyst: NSB ND 0.093 4/15/2020 9:53:11 AM 51772 Benzene mg/Kg 5 Toluene ND 0.19 mg/Kg 4/15/2020 9:53:11 AM 51772 Ethylbenzene ND 0.19 mg/Kg 5 4/15/2020 9:53:11 AM 51772 Xylenes, Total ND 0.37 mg/Kg 5 4/15/2020 9:53:11 AM 51772 Surr: 4-Bromofluorobenzene 80-120 98.7 %Rec 4/15/2020 9:53:11 AM 51772

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Analytical Report

Lab Order **2004673**Date Reported: **4/20/2020**

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: FP-3

 Project:
 Lateral 3B-7
 Collection Date: 4/14/2020 10:10:00 AM

 Lab ID:
 2004673-003
 Matrix: SOIL
 Received Date: 4/15/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	4/15/2020 10:42:15 AM	51821
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	4/15/2020 9:47:57 AM	51820
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	4/15/2020 9:47:57 AM	51820
Surr: DNOP	97.8	55.1-146	%Rec	1	4/15/2020 9:47:57 AM	51820
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	4/15/2020 10:16:42 AM	51772
Surr: BFB	97.6	66.6-105	%Rec	1	4/15/2020 10:16:42 AM	51772
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	4/15/2020 10:16:42 AM	51772
Toluene	ND	0.047	mg/Kg	1	4/15/2020 10:16:42 AM	51772
Ethylbenzene	ND	0.047	mg/Kg	1	4/15/2020 10:16:42 AM	51772
Xylenes, Total	ND	0.095	mg/Kg	1	4/15/2020 10:16:42 AM	51772
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	4/15/2020 10:16:42 AM	51772

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 3 of 12

Analytical Report

Lab Order **2004673**Date Reported: **4/20/2020**

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: FP-4

 Project:
 Lateral 3B-7
 Collection Date: 4/14/2020 10:15:00 AM

 Lab ID:
 2004673-004
 Matrix: SOIL
 Received Date: 4/15/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	4/15/2020 10:54:39 AM	51821
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.0	mg/Kg	1	4/15/2020 10:12:17 AM	51820
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	4/15/2020 10:12:17 AM	51820
Surr: DNOP	97.0	55.1-146	%Rec	1	4/15/2020 10:12:17 AM	51820
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.0	mg/Kg	1	4/15/2020 10:40:21 AM	51772
Surr: BFB	98.6	66.6-105	%Rec	1	4/15/2020 10:40:21 AM	51772
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.020	mg/Kg	1	4/15/2020 10:40:21 AM	51772
Toluene	ND	0.040	mg/Kg	1	4/15/2020 10:40:21 AM	51772
Ethylbenzene	ND	0.040	mg/Kg	1	4/15/2020 10:40:21 AM	51772
Xylenes, Total	ND	0.080	mg/Kg	1	4/15/2020 10:40:21 AM	51772
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	4/15/2020 10:40:21 AM	51772

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Surr: 4-Bromofluorobenzene

Analytical Report

Lab Order **2004673**Date Reported: **4/20/2020**

4/15/2020 11:04:09 AM 51772

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: FP-5

%Rec

 Project:
 Lateral 3B-7
 Collection Date: 4/14/2020 10:20:00 AM

 Lab ID:
 2004673-005
 Matrix: SOIL
 Received Date: 4/15/2020 8:00:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch Analyses EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride ND 60 mg/Kg 20 4/15/2020 11:07:04 AM 51821 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: BRM Diesel Range Organics (DRO) ND 9.8 mg/Kg 4/15/2020 10:36:31 AM 51820 ND Motor Oil Range Organics (MRO) 49 mg/Kg 1 4/15/2020 10:36:31 AM 51820 Surr: DNOP 4/15/2020 10:36:31 AM 51820 97.5 55.1-146 %Rec **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 4/15/2020 11:04:09 AM 51772 4.0 mg/Kg Surr: BFB 98.6 66.6-105 %Rec 4/15/2020 11:04:09 AM 51772 **EPA METHOD 8021B: VOLATILES** Analyst: NSB ND 4/15/2020 11:04:09 AM 51772 Benzene 0.020 mg/Kg Toluene ND 0.040 mg/Kg 4/15/2020 11:04:09 AM 51772 Ethylbenzene ND 0.040 mg/Kg 4/15/2020 11:04:09 AM 51772 Xylenes, Total ND 0.080 mg/Kg 4/15/2020 11:04:09 AM 51772

101

80-120

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Analytical Report

Lab Order **2004673**Date Reported: **4/20/2020**

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: FP-6

 Project:
 Lateral 3B-7
 Collection Date: 4/14/2020 10:25:00 AM

 Lab ID:
 2004673-006
 Matrix: SOIL
 Received Date: 4/15/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	4/15/2020 11:19:29 AM	51821
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	4/15/2020 11:01:11 AM	51820
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	4/15/2020 11:01:11 AM	51820
Surr: DNOP	99.2	55.1-146	%Rec	1	4/15/2020 11:01:11 AM	51820
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	3.9	mg/Kg	1	4/15/2020 11:27:49 AM	51772
Surr: BFB	97.3	66.6-105	%Rec	1	4/15/2020 11:27:49 AM	51772
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.020	mg/Kg	1	4/15/2020 11:27:49 AM	51772
Toluene	ND	0.039	mg/Kg	1	4/15/2020 11:27:49 AM	51772
Ethylbenzene	ND	0.039	mg/Kg	1	4/15/2020 11:27:49 AM	51772
Xylenes, Total	ND	0.078	mg/Kg	1	4/15/2020 11:27:49 AM	51772
Surr: 4-Bromofluorobenzene	100	80-120	%Rec	1	4/15/2020 11:27:49 AM	51772

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Analytical Report

Lab Order 2004673

Date Reported: 4/20/2020

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: FP-7

 Project:
 Lateral 3B-7
 Collection Date: 4/14/2020 10:30:00 AM

Lab ID: 2004673-007 **Matrix:** SOIL **Received Date:** 4/15/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	4/15/2020 11:31:54 AM	51821
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	4/15/2020 11:25:33 AM	51820
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	4/15/2020 11:25:33 AM	51820
Surr: DNOP	98.0	55.1-146	%Rec	1	4/15/2020 11:25:33 AM	51820
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.4	mg/Kg	1	4/15/2020 11:51:25 AM	51772
Surr: BFB	96.8	66.6-105	%Rec	1	4/15/2020 11:51:25 AM	51772
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.022	mg/Kg	1	4/15/2020 11:51:25 AM	51772
Toluene	ND	0.044	mg/Kg	1	4/15/2020 11:51:25 AM	51772
Ethylbenzene	ND	0.044	mg/Kg	1	4/15/2020 11:51:25 AM	51772
Xylenes, Total	ND	0.087	mg/Kg	1	4/15/2020 11:51:25 AM	51772
Surr: 4-Bromofluorobenzene	98.8	80-120	%Rec	1	4/15/2020 11:51:25 AM	51772

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 7 of 12

Hall Environmental Analysis Laboratory, Inc.

WO#: **2004673**

20-Apr-20

Client: ENSOLUM
Project: Lateral 3B-7

Sample ID: MB-51821 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **51821** RunNo: **68136**

Prep Date: 4/15/2020 Analysis Date: 4/15/2020 SeqNo: 2356599 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-51821 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 51821 RunNo: 68136

Prep Date: 4/15/2020 Analysis Date: 4/15/2020 SeqNo: 2356600 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 91.4 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

SampType: MBLK

Analysis Date: 4/16/2020

PQL

9.9

Result

44

4.2

WO#: **2004673 20-Apr-20**

Client: ENSOLUM
Project: Lateral 3B-7

Sample ID: MB-51820

•							•	•	
Client ID: PBS	Batch ID:	51820	R	RunNo: 68	131				
Prep Date: 4/15/2020	Analysis Date:	4/15/2020	S	SeqNo: 23	55333	Units: mg/K	g		
Analyte	Result PQ	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10							
Motor Oil Range Organics (MRO)	ND	50							
Surr: DNOP	6.5	10.00		65.0	55.1	146			
Sample ID: LCS-51820	SampType:	LCS	Tes	tCode: EP	A Method	8015M/D: Die	esel Range	e Organics	
Client ID: LCSS	Batch ID:	51820	R	RunNo: 68	131				
Prep Date: 4/15/2020	Analysis Date:	4/15/2020	S	SeqNo: 23	55334	Units: mg/K	g		
Analyte	Result PQ	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10 50.00	0	93.7	70	130			
Surr: DNOP	4.1	5.000		82.4	55.1	146			
Sample ID: 2004673-001AMS	SampType:	MS	Tes	tCode: EP	A Method	8015M/D: Die	esel Range	e Organics	
Client ID: FP-1	Batch ID:	51820	R	RunNo: 68	138				
Client ID: FP-1 Prep Date: 4/15/2020	Batch ID: Analysis Date:			RunNo: 68 SeqNo: 23		Units: mg/K	g		
		4/16/2020		SeqNo: 23		Units: mg/K	g %RPD	RPDLimit	Qual
Prep Date: 4/15/2020	Analysis Date: Result PQ	4/16/2020	S	SeqNo: 23	56497	Ū	•	RPDLimit	Qual
Prep Date: 4/15/2020 Analyte	Analysis Date: Result PQ	4/16/2020 QL SPK value	SPK Ref Val	SeqNo: 23	56497 LowLimit	HighLimit	•	RPDLimit	Qual
Prep Date: 4/15/2020 Analyte Diesel Range Organics (DRO)	Analysis Date: Result PQ 46 4.4	4/16/2020 QL SPK value 10 49.85 4.985	SPK Ref Val	%REC 92.2 88.6	56497 LowLimit 47.4 55.1	HighLimit	%RPD		Qual

TestCode: EPA Method 8015M/D: Diesel Range Organics

Units: mg/Kg

136

146

%RPD

4.78

0

RPDLimit

43.4

0

Qual

HighLimit

Sample ID: MB-51849	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics				
Client ID: PBS	Batch ID: 51849	RunNo: 68131				
Prep Date: 4/16/2020	Analysis Date: 4/16/2020	SeqNo: 2356515	Units: %Rec			
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual			
Surr: DNOP	8.7 10.00	86.8 55.1	146			

0

SPK value SPK Ref Val %REC

49.26

4.926

Sample ID: LCS-51849	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 51849	RunNo: 68131
Prep Date: 4/16/2020	Analysis Date: 4/16/2020	SeqNo: 2356517 Units: %Rec
Analyte	Result PQL SPK valu	ue SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix

Prep Date: 4/15/2020

Diesel Range Organics (DRO)

Analyte

Surr: DNOP

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

B Analyte detected in the associated Method Blank

SeqNo: 2356498

89.0

86.1

LowLimit

47.4

55.1

- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2004673 20-Apr-20**

Client: ENSOLUM
Project: Lateral 3B-7

Sample ID: LCS-51849 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 51849 RunNo: 68131

Prep Date: 4/16/2020 Analysis Date: 4/16/2020 SeqNo: 2356517 Units: %Rec

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

Surr: DNOP 4.3 5.000 85.7 55.1 146

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#:

2004673 20-Apr-20

Client: ENSOLUM Project: Lateral 3B-7

Sample ID: mb-51772 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 51772 RunNo: 68135

Prep Date: 4/13/2020 Analysis Date: 4/15/2020 SeqNo: 2356041 Units: mq/Kq

PQL SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result LowLimit HighLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 940 1000 94.4 66.6 105

Sample ID: Ics-51772 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 51772 RunNo: 68135

Prep Date: 4/13/2020 Analysis Date: 4/15/2020 SeqNo: 2356042 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Gasoline Range Organics (GRO) 5.0 25.00 O 90.4 80 120 Surr: BFB 1000 1000 104 66.6 105

Sample ID: mb-51750 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 51750 RunNo: 68135

Prep Date: 4/13/2020 Analysis Date: 4/15/2020 SeqNo: 2356056 Units: %Rec

PQL SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result LowLimit HighLimit Qual

Surr: BFB 960 1000 96.3 66.6 105

Sample ID: Ics-51750 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 51750 RunNo: 68135

Analysis Date: 4/15/2020 Prep Date: 4/13/2020 SeqNo: 2356057 Units: %Rec

Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 1100 1000 Surr: BFB 110 66.6 105 S

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2004673 20-Apr-20

Client: ENSOLUM Project: Lateral 3B-7

Sample ID: mb-51772 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: 51772 RunNo: 68135 Prep Date: 4/13/2020 Analysis Date: 4/15/2020 SeqNo: 2356090 Units: mg/Kg PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Result Benzene ND 0.025 Toluene ND 0.050 ND 0.050 Ethylbenzene Xylenes, Total ND 0.10 Surr: 4-Bromofluorobenzene 0.98 1.000 97.8 80 120

Sample ID: LCS-51772	SampT	ype: LC	S	TestCode: EPA Method 8021B: Volat					B: Volatiles		
Client ID: LCSS	Batcl	n ID: 51 7	772	F	RunNo: 6	8135					
Prep Date: 4/13/2020	Analysis D	Date: 4/	15/2020	S	SeqNo: 2	356091	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.90	0.025	1.000	0	89.8	80	120				
Toluene	0.91	0.050	1.000	0	91.4	80	120				
Ethylbenzene	0.93	0.050	1.000	0	92.9	80	120				
Xylenes, Total	2.8	0.10	3.000	0	93.4	80	120				
Surr: 4-Bromofluorobenzene	1.0		1.000		100	80	120				

Sample ID: mb-51750	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch	n ID: 51	750	F	lunNo: 6	8135				
Prep Date: 4/13/2020	Analysis D	ate: 4/	15/2020	SeqNo: 2356106 Units: %Rec						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.97		1.000		97.5	80	120			

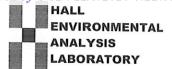
Sample ID: LCS-51750	SampType	TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID	: 51750	R	unNo: 68	3135				
Prep Date: 4/13/2020	4/13/2020 Analysis Date: 4/15/2020			SeqNo: 23	356107	;			
Analyte	Result P	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1-Bromofluorobenzene	1.0	1 000		104	80	120			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name:	ENSOLUM AZTEC	Work Order Nu	mber: 2004673		RcptNo: 1	
Received By:	Juan Rojas	4/15/2020 8:00:00	O AM	Guaring		
Completed By:	Juan Rojas	4/15/2020 8:10:27	7 AM	flouren g		
Reviewed By:	JR 4/15/20			£		
Chain of Cus	<u>tody</u>					
1. Is Chain of Cu	ustody sufficiently complete	?	Yes 🗸	No 🗌	Not Present	
2. How was the	sample delivered?		Courier			
Log In						
	pt made to cool the sampl	es?	Yes 🗸	No 🗌	NA 🗌	
4. Were all samp	les received at a temperat	ure of >0° C to 6.0°C	Yes 🗸	No 🗌	NA 🗆	
5. Sample(s) in p	proper container(s)?		Yes 🗸	No 🗌		
6. Sufficient samp	ple volume for indicated te	st(s)?	Yes 🗸	No 🗌		
7. Are samples (e	except VOA and ONG) pro	perly preserved?	Yes 🗸	No 🗌		
8. Was preservat	ive added to bottles?		Yes	No 🗸	NA \square	
9. Received at lea	ast 1 vial with headspace <	1/4" for AQ VOA?	Yes	No 🗌	NA 🗸	
10. Were any sam	ple containers received br	oken?	Yes	No 🗹	# of proposed	
11 Doos paparus	rk match bottle labels?			\square	# of preserved bottles checked	
	ncies on chain of custody)		Yes 🗸	No 📙	for pH: (<2 or >1	2 unless noted)
	orrectly identified on Chain	of Custody?	Yes 🗸	No 🗌	Adjusted?	
	analyses were requested?		Yes 🗸	No 🗌		
	g times able to be met? stomer for authorization.)		Yes 🗸	No 🗆	Checked by: DA	0 4/15/20
Special Handli	ng (if applicable)					
	ified of all discrepancies w	ith this order?	Yes	No 🗌	NA 🗹	
Person N	Notified:	Date		AND THE RESERVE OF THE PERSON		
By Whor	m:	Via:	eMail F	Phone Fax	☐ In Person	
Regardir			CONTRACTOR OF THE PARTY OF THE		*	
	structions:		AND COMPANY OF THE PARTY OF THE			
16. Additional rem	narks:					
17. Cooler Inform	1 1	Service State Control	200 Patricks & P	Business and the second		
Cooler No	Temp °C Condition 1.3 Good	Seal Intact Seal No	Seal Date	Signed By		
	1.0 0000					

Chain-of-Custody Record Turn-Around Time: HALL ENVIRONMENTAL Client: Ensolum □ Standard Rush 4-15-20 ANALYSIS LABORATORY Project Name: www.hallenvironmental.com Mailing Address: Golo S Bio Grande Lateral 3B-7
Project #: 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 05A1226101 **Analysis Request** Phone #: Project Manager: email or Fax#: TPH:8015D(GRO / DRO / MRO) Coliform (Present/Absent) TMB's (8021) 8270SIMS QA/QC Package: K, Summers □ Standard □ Level 4 (Full Validation) C. DApont; Accreditation:

Az Compliance Sampler: 8270 (Semi-VOA) □ NELAC On Ice: ₽-Yes □ Other □ No CI, F. Br. NO., BTEX / MTBE / RCRA 8 Metals ☐ EDD (Type) # of Coolers: 8260 (VOA) Cooler Temp(including CF): 1.5-0.2-1.3 (°C) Container Preservative HEAL No. Sample Name 2004673 Date Time Matrix Type and # Type X -001 -002 -003 -004 V K. -005 1020 -006 V 1025 5 -007

Via:

Received by:

Received by:

Time:

Date:

Relinquished by:

Relinquished by:

Remarks: PM Tom Long fay Key RB 21200 AFE # N47820

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

Date

Time



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

April 27, 2020

Kyle Summers
Ensolum
606 S Rio Grande Ste A
Aztec, NM 87410
TEL: (903) 821-5603

FAX

RE: Lateral 3B 7 OrderNo.: 2004990

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 5 sample(s) on 4/23/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 4/27/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum Client Sample ID: S-1

Project: Lateral 3B 7 **Collection Date:** 4/22/2020 12:00:00 PM

Lab ID: 2004990-001 **Matrix:** MEOH (SOIL) **Received Date:** 4/23/2020 8:08:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	60	mg/Kg	20	4/23/2020 9:47:12 AM	52040
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	4/23/2020 10:40:51 AM	52038
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	4/23/2020 10:40:51 AM	52038
Surr: DNOP	107	55.1-146	%Rec	1	4/23/2020 10:40:51 AM	52038
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.1	mg/Kg	1	4/23/2020 9:15:29 AM	R68362
Surr: BFB	101	66.6-105	%Rec	1	4/23/2020 9:15:29 AM	R68362
EPA METHOD 8021B: VOLATILES					Analyst	RAA
Benzene	ND	0.020	mg/Kg	1	4/23/2020 9:15:29 AM	B68362
Toluene	ND	0.041	mg/Kg	1	4/23/2020 9:15:29 AM	B68362
Ethylbenzene	ND	0.041	mg/Kg	1	4/23/2020 9:15:29 AM	B68362
Xylenes, Total	ND	0.082	mg/Kg	1	4/23/2020 9:15:29 AM	B68362
Surr: 4-Bromofluorobenzene	99.6	80-120	%Rec	1	4/23/2020 9:15:29 AM	B68362

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 4/27/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum Client Sample ID: S-2

Project: Lateral 3B 7 **Collection Date:** 4/22/2020 12:05:00 PM

Lab ID: 2004990-002 **Matrix:** MEOH (SOIL) **Received Date:** 4/23/2020 8:08:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: MRA
Chloride	ND	60	mg/Kg	20	4/23/2020 9:59:36 AM	52040
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	4/23/2020 11:04:56 AM	52038
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	4/23/2020 11:04:56 AM	52038
Surr: DNOP	99.1	55.1-146	%Rec	1	4/23/2020 11:04:56 AM	52038
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: RAA
Gasoline Range Organics (GRO)	ND	4.3	mg/Kg	1	4/23/2020 10:02:53 AM	R68362
Surr: BFB	102	66.6-105	%Rec	1	4/23/2020 10:02:53 AM	R68362
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.022	mg/Kg	1	4/23/2020 10:02:53 AM	B68362
Toluene	ND	0.043	mg/Kg	1	4/23/2020 10:02:53 AM	B68362
Ethylbenzene	ND	0.043	mg/Kg	1	4/23/2020 10:02:53 AM	B68362
Xylenes, Total	ND	0.086	mg/Kg	1	4/23/2020 10:02:53 AM	B68362
Surr: 4-Bromofluorobenzene	100	80-120	%Rec	1	4/23/2020 10:02:53 AM	B68362

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 4/27/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum Client Sample ID: S-3

Project: Lateral 3B 7 **Collection Date:** 4/22/2020 12:10:00 PM

Lab ID: 2004990-003 **Matrix:** MEOH (SOIL) **Received Date:** 4/23/2020 8:08:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	60	mg/Kg	20	4/23/2020 10:12:00 AM	52040
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	28	9.8	mg/Kg	1	4/23/2020 10:37:14 AM	52038
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	4/23/2020 10:37:14 AM	52038
Surr: DNOP	99.0	55.1-146	%Rec	1	4/23/2020 10:37:14 AM	52038
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	18	mg/Kg	5	4/23/2020 10:26:39 AM	R68362
Surr: BFB	101	66.6-105	%Rec	5	4/23/2020 10:26:39 AM	R68362
EPA METHOD 8021B: VOLATILES					Analyst	RAA
Benzene	ND	0.092	mg/Kg	5	4/23/2020 10:26:39 AM	B68362
Toluene	ND	0.18	mg/Kg	5	4/23/2020 10:26:39 AM	B68362
Ethylbenzene	ND	0.18	mg/Kg	5	4/23/2020 10:26:39 AM	B68362
Xylenes, Total	ND	0.37	mg/Kg	5	4/23/2020 10:26:39 AM	B68362
Surr: 4-Bromofluorobenzene	99.8	80-120	%Rec	5	4/23/2020 10:26:39 AM	B68362

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 4/27/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum Client Sample ID: S-4

Project: Lateral 3B 7 **Collection Date:** 4/22/2020 12:15:00 PM

Lab ID: 2004990-004 **Matrix:** MEOH (SOIL) **Received Date:** 4/23/2020 8:08:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	MRA
Chloride	ND	60		mg/Kg	20	4/23/2020 10:49:13 AM	52040
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS					Analyst	BRM
Diesel Range Organics (DRO)	29	10		mg/Kg	1	4/23/2020 11:01:39 AM	52038
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/23/2020 11:01:39 AM	52038
Surr: DNOP	97.0	55.1-146		%Rec	1	4/23/2020 11:01:39 AM	52038
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/23/2020 10:50:16 AM	R68362
Surr: BFB	108	66.6-105	S	%Rec	1	4/23/2020 10:50:16 AM	R68362
EPA METHOD 8021B: VOLATILES						Analyst:	RAA
Benzene	ND	0.023		mg/Kg	1	4/23/2020 10:50:16 AM	B68362
Toluene	ND	0.047		mg/Kg	1	4/23/2020 10:50:16 AM	B68362
Ethylbenzene	ND	0.047		mg/Kg	1	4/23/2020 10:50:16 AM	B68362
Xylenes, Total	ND	0.093		mg/Kg	1	4/23/2020 10:50:16 AM	B68362
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	4/23/2020 10:50:16 AM	B68362

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 4/27/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum Client Sample ID: S-5

Project: Lateral 3B 7 **Collection Date:** 4/22/2020 12:20:00 PM

Lab ID: 2004990-005 **Matrix:** MEOH (SOIL) **Received Date:** 4/23/2020 8:08:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	60	mg/Kg	20	4/23/2020 11:01:38 AM	52040
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	4/23/2020 11:26:18 AM	52038
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	4/23/2020 11:26:18 AM	52038
Surr: DNOP	95.9	55.1-146	%Rec	1	4/23/2020 11:26:18 AM	52038
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.3	mg/Kg	1	4/23/2020 11:13:51 AM	R68362
Surr: BFB	102	66.6-105	%Rec	1	4/23/2020 11:13:51 AM	R68362
EPA METHOD 8021B: VOLATILES					Analyst	RAA
Benzene	ND	0.022	mg/Kg	1	4/23/2020 11:13:51 AM	B68362
Toluene	ND	0.043	mg/Kg	1	4/23/2020 11:13:51 AM	B68362
Ethylbenzene	ND	0.043	mg/Kg	1	4/23/2020 11:13:51 AM	B68362
Xylenes, Total	ND	0.086	mg/Kg	1	4/23/2020 11:13:51 AM	B68362
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	4/23/2020 11:13:51 AM	B68362

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2004990**

27-Apr-20

Client: Ensolum
Project: Lateral 3B 7

Sample ID: MB-52040 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 52040 RunNo: 68356

Prep Date: 4/23/2020 Analysis Date: 4/23/2020 SeqNo: 2365671 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-52040 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 52040 RunNo: 68356

Prep Date: 4/23/2020 Analysis Date: 4/23/2020 SeqNo: 2365672 Units: mg/Kg

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

Chloride 15 1.5 15.00 0 97.6 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2004990**

27-Apr-20

Client: Ensolum
Project: Lateral 3B 7

Sample ID: LCS-52038	SampType	e: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID	: 52038	R	tunNo: 683	357				
Prep Date: 4/23/2020	Analysis Date	e: 4/23/2020	S	SeqNo: 236	55184	Units: mg/K	g		
Analyte	Result F	QL SPK value	SPK Ref Val	%REC I	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10 50.00	0	102	70	130			
Surr: DNOP	5.0	5.000		99.4	55.1	146			
Sample ID: MB-52038	SampType	e: MBLK	Tes	tCode: EP	A Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS	Batch ID	52038	R	tunNo: 683	357				
Prep Date: 4/23/2020	Analysis Date	e: 4/23/2020	S	SeqNo: 236	55185	Units: mg/K	g		
Analyte	Result F	PQL SPK value	SPK Ref Val	%REC I	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10							
Motor Oil Range Organics (MRO)	ND	50		400	55.4	4.40			
Surr: DNOP	11	10.00		106	55.1	146			
Sample ID: 2004990-001AM	SampType	e: MS	Test	tCode: EP	A Method	8015M/D: Die	sel Range	Organics	
Client ID: S-1	Batch ID	52038	R	tunNo: 683	358				
Prep Date: 4/23/2020	Analysis Date	: 4/23/2020	S	SeqNo: 236	55972	Units: mg/K	g		
Prep Date: 4/23/2020 Analyte	•		SPK Ref Val	·	LowLimit	Units: mg/K HighLimit	g %RPD	RPDLimit	Qual
Analyte Diesel Range Organics (DRO)	Result F		SPK Ref Val	%REC	LowLimit 47.4	HighLimit	-	RPDLimit	Qual
Analyte	Result F	PQL SPK value	SPK Ref Val 4.679	%REC	LowLimit	HighLimit	-	RPDLimit	Qual
Analyte Diesel Range Organics (DRO)	Result F 49 4.5	PQL SPK value 9.8 49.02 4.902	SPK Ref Val 4.679	%REC 90.2 91.4	47.4 55.1	HighLimit	%RPD		Qual
Analyte Diesel Range Organics (DRO) Surr: DNOP	Result F 49 4.5 ISD SampType	PQL SPK value 9.8 49.02 4.902	SPK Ref Val 4.679	%REC 90.2 91.4	LowLimit 47.4 55.1	HighLimit 136 146	%RPD		Qual
Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID: 2004990-001AM	Result F 49 4.5 ISD SampType	PQL SPK value 9.8 49.02 4.902 9: MSD 9: 52038	SPK Ref Val 4.679	%REC 90.2 91.4 tCode: EP	47.4 55.1 A Method	HighLimit 136 146	%RPD		Qual
Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID: 2004990-001AM Client ID: S-1	Result F 49 4.5 SD SampType Batch ID Analysis Date	PQL SPK value 9.8 49.02 4.902 9: MSD 9: 52038 9: 4/23/2020	SPK Ref Val 4.679	%REC 90.2 91.4 Code: EPA	47.4 55.1 A Method	HighLimit 136 146 8015M/D: Die	%RPD		Qual
Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID: 2004990-001AM Client ID: S-1 Prep Date: 4/23/2020 Analyte Diesel Range Organics (DRO)	Result F 49 4.5 SD SampType Batch ID Analysis Date	PQL SPK value 9.8 49.02 4.902 9: MSD 9: 52038 9: 4/23/2020	SPK Ref Val 4.679 Test R S SPK Ref Val	%REC 90.2 91.4 Code: EPA	47.4 55.1 A Method 358 65973	HighLimit 136 146 8015M/D: Die Units: mg/K	%RPD weel Range	organics	
Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID: 2004990-001AM Client ID: S-1 Prep Date: 4/23/2020 Analyte	Result F 49 4.5 ISD SampType Batch ID Analysis Date Result F	PQL SPK value 9.8 49.02 4.902 9: MSD 9: 52038 9: 4/23/2020 PQL SPK value	SPK Ref Val 4.679 Test R S SPK Ref Val	%REC 90.2 91.4 tCode: EPA tunNo: 683 SeqNo: 236 %REC	47.4 55.1 A Method 858 65973 LowLimit	HighLimit 136 146 8015M/D: Die Units: mg/K HighLimit	%RPD **sel Range g %RPD	e Organics RPDLimit	

Sample ID: MB-52025	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 52025	RunNo: 68357
Prep Date: 4/22/2020	Analysis Date: 4/23/2020	SeqNo: 2366143 Units: %Rec
Analyte	Result PQL SPK value SPk	Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

SPK value SPK Ref Val %REC

5.000

Batch ID: 52025

Analysis Date: 4/23/2020

Result

6.3

PQL

Qualifiers:

Analyte

Surr: DNOP

Client ID: LCSS

Prep Date: 4/22/2020

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

RunNo: 68357

125

SeqNo: 2366142

LowLimit

55.1

Units: %Rec

146

HighLimit

%RPD

RPDLimit

Qual

- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2004990 27-Apr-20**

Client: Ensolum
Project: Lateral 3B 7

Sample ID: MB-52025 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 52025 RunNo: 68357

Prep Date: 4/22/2020 Analysis Date: 4/23/2020 SeqNo: 2366143 Units: %Rec

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

Surr: DNOP 13 10.00 129 55.1 146

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2004990 27-Apr-20**

Client: Ensolum
Project: Lateral 3B 7

Sample ID: 2004990-001ams	SampT	ype: MS	3	TestCode: EPA Method 8015D: Gasoline Range						
Client ID: S-1	Batch	n ID: R6	8362	F	RunNo: 6					
Prep Date:	Analysis D	ate: 4/	23/2020	5	SeqNo: 2	365824	Units: mg/k	ίg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	4.1	20.48	0	98.9	80	120			
Surr: BFB	930		819.0		114	66.6	105			S
Sample ID: 2004990-001amsd	SampT	SampType: MSD TestCode: EPA Method 8015D: Gasoline Range						·		
Client ID: S-1	Ratch	ID. PE	9262		PunNo: 6	9262				

Sample 1D. 2004990-00 Tallis	u Sampi	Samprype. WSD			icode. Ei	t					
Client ID: S-1	Batcl	Batch ID: R68362			RunNo: 6						
Prep Date:	Analysis D	oate: 4/	23/2020	\$	SeqNo: 2	365825	Units: mg/k	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	20	4.1	20.48	0	98.0	80	120	0.894	20		
Surr: BFB	930		819.0		114	66.6	105	0	0	S	

Sample ID: 2.5ug gro lcs	SampType: LCS			Tes	TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch	Batch ID: R68362			RunNo: 6	8362					
Prep Date:	Analysis D	ate: 4/	23/2020	SeqNo: 2365828			Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	20	5.0	25.00	0	81.3	80	120				
Surr: BFB	1100		1000		111	66.6	105			S	

Sample ID: mb1	SampT	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch	1D: R6	8362	F	RunNo: 6	8362						
Prep Date:	Analysis D	ate: 4/	23/2020	8	SeqNo: 2	365829	Units: mg/K	(g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Range Organics (GRO)	ND	5.0										
Surr: BFB	1000		1000		103	66.6	105					

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2004990**

27-Apr-20

Client: Ensolum
Project: Lateral 3B 7

Sample ID: 2004990-002ams	SampT	SampType: MS			TestCode: EPA Method 8021B: Volatiles						
Client ID: S-2	Batcl	Batch ID: B68362			RunNo: 6	8362					
Prep Date:	Analysis D	Date: 4/	23/2020	\$	SeqNo: 2	365916	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.79	0.022	0.8643	0	91.2	78.5	119				
Toluene	0.81	0.043	0.8643	0.01132	92.9	75.7	123				
Ethylbenzene	0.83	0.043	0.8643	0	95.8	74.3	126				
Xylenes, Total	2.5	0.086	2.593	0.01694	95.5	72.9	130				
Surr: 4-Bromofluorobenzene	0.92		0.8643		107	80	120				

Sample ID: 2004990-002ams	d SampT	SampType: MSD			tCode: El					
Client ID: S-2	Batch	ID: B6	8362	F	RunNo: 6					
Prep Date:	Analysis D	nalysis Date: 4/23/2020			SeqNo: 2365918 Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.79	0.022	0.8643	0	91.2	78.5	119	0.0877	20	
Toluene	0.81	0.043	0.8643	0.01132	92.4	75.7	123	0.543	20	
Ethylbenzene	0.82	0.043	0.8643	0	95.4	74.3	126	0.439	20	
Xylenes, Total	2.5	0.086	2.593	0.01694	94.9	72.9	130	0.581	20	
Surr: 4-Bromofluorobenzene	0.95		0.8643		109	80	120	0	0	

Sample ID: 100NG BTEX LCS	SampT	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batcl	n ID: B6	8362	F	RunNo: 6						
Prep Date:	Analysis D	Analysis Date: 4/23/2020			SeqNo: 2	365928	Units: mg/K	ı/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.87	0.025	1.000	0	86.7	80	120				
Toluene	0.91	0.050	1.000	0	90.7	80	120				
Ethylbenzene	0.93	0.050	1.000	0	92.6	80	120				
Xylenes, Total	2.8	0.10	3.000	0	94.1	80	120				
Surr: 4-Bromofluorobenzene	1.0		1.000		100	80	120				

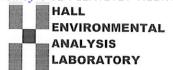
Sample ID: mb1	SampT	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch	Batch ID: B68362			RunNo: 6	8362					
Prep Date:	Analysis D	Analysis Date: 4/23/2020			SeqNo: 2	365929	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND	0.025									
Toluene	ND	0.050									
Ethylbenzene	ND	0.050									
Xylenes, Total	ND	0.10									
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120				

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name:	ENSOLUM A	ZTEC	Work O	rder Numbe	: 200	4990			RcptNo:	1
Received By:	Desiree Don	ninguez	4/23/2020	8:08:00 AM	1		T	3		
Completed By:	Desiree Don	ninguez	4/23/2020	8:09:03 AM	1		TD	~		
Reviewed By:	DAD 4/	23/20					-			
Chain of Cust	<u>tody</u>									
1. Is Chain of Cu	ustody sufficien	tly complete?			Yes	V	No		Not Present	
2. How was the s	sample delivere	ed?			Cou	rier				
Log In										
3. Was an attem	pt made to coo	I the samples	?		Yes	✓	No		NA 🗌	
4. Were all samp	les received at	a temperatur	e of >0° C to	6.0°C	Yes	V	No		NA 🗌	
5. Sample(s) in p	proper containe	r(s)?			Yes	✓	No			
6. Sufficient samp	ple volume for i	indicated test	(s)?		Yes	V	No			
7. Are samples (e	except VOA and	d ONG) prope	erly preserved	?	Yes	V	No			
8. Was preservat	ive added to bo	ottles?			Yes		No	V	NA 🗌	
9. Received at lea	ast 1 vial with h	eadspace <1	/4" for AQ VO	A?	Yes		No		NA 🗸	
10. Were any sam	ple containers	received brok	ken?		Yes		No	V	W - f	
									# of preserved bottles checked	
11. Does paperwork (Note discrepa					Yes	V	No	Ш	for pH:	12 unless noted)
12. Are matrices co			of Custody?		Yes	V	No		Adjusted?	12 dilless floted)
13. Is it clear what					Yes	V	No			
14. Were all holdin	-				Yes	✓	No		Checked by:	24/23/20
(If no, notify cu										
Special Handli										
15. Was client not	tified of all disci	repancies wit	n this order?		Yes	Ш	No		NA 🗹	
Person I	Notified:	AA CANBURO EN AND OLIVE PLAN	ner occordencement and east.	Date:	NORTH CONTRACTOR	***************************************		MALACONICOS."		
By Who	m:		CONTRACTOR SECTION	Via: [_ eM	ail [Phone	Fax	In Person	
Regardir	P									
	structions:									
16. Additional ren	narks:									
17. Cooler Inform	1	0	0			20	1		ī	
Cooler No			Seal Intact Sea y	Seal No	Seal D	ate	Signed I	Зу		
1.	1	1	у							

Turn-Around Time: Chain-of-Custody Record HALL ENVIRONMENTAL Client: ☐ Standard ANALYSIS LABORATORY Project Name: www.hallenvironmental.com Mailing Address: José Shio Goarle Lateral 313-7
Project #: 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 05A1226101 Phone #: **Analysis Request** Project Manager: email or Fax#: SQ4 TPH:8015D(GRO / DRO / MRO) Total Coliform (Present/Absent) TMB's (8021) 8081 Pesticides/8082 PCB's QA/QC Package: or 8270SIMS K. Summers □ Standard ☐ Level 4 (Full Validation) EDB (Method 504.1) Accreditation: □ Az Compliance Sampler: 8270 (Semi-VOA) □ NELAC □ Other On Ice: ☑ Yes CI, Th. Br. NO3, RCRA 8 Metals **PAHs by 8310** ☐ EDD (Type) # of Coolers: \ 8260 (VOA) Cooler Temp(including CF): 3.1 -0.0 = 3.1 BTEX / * Container Preservative HEAL No. 2004990 Sample Name Date Time Matrix Type and # Type 402 -001 Tar -002 - 003 - 004 -005

Date: Relinguished by: Time: Received by: Via: Date Time Date: Relinguished by: Received by: 4/23/20 8:08

Remarks: Pm. Tom Long

Lay - Kry - RB 21200

APE# N47820

courier



APPENDIX G

Regulatory Correspondence

From: Long, Thomas

To: "Smith, Cory, EMNRD (Cory.Smith@state.nm.us)"

Cc: Stone, Brian

Subject: FW: Lateral 3B-7 Hydro Test Release - UL G Section 3 T29N R11W; 36.75538, -107.97539

Date: Thursday, April 23, 2020 2:48:00 PM

Attachments: Site Drawing 3.jpg

Lateral 3B 7.pdf

Cory,

Please find the attached site sketch and lab report for the Lateral 3B-7 excavation sampling. All samples results are below the NMOCD Tier I remediation standards. Entperise will backfill the excavation with clean imported fill material. If you have any questions, please call or email.

Thomas J. Long
Senior Environmental Scientist
Enterprise Products Company
614 Reilly Ave.
Farmington, New Mexico 87401
505-599-2286 (office)
505-215-4727 (Cell)
tilong@eprod.com



From: Long, Thomas

Sent: Tuesday, April 21, 2020 12:19 PM

To: 'Smith, Cory, EMNRD (Cory.Smith@state.nm.us)' <Cory.Smith@state.nm.us>

Cc: Stone, Brian

 bmstone@eprod.com>

Subject: FW: Lateral 3B-7 Hydro Test Release - UL G Section 3 T29N R11W; 36.75538, -107.97539

Cory,

This email is a notification that Entperise will be collecting soil samples for laboratory analysis at the Lateral 3B-7 excavation tomorrow, April 22, 2020 at 12:00 p.m. If you have any questions, please call or email.

Thomas J. Long
Senior Environmental Scientist
Enterprise Products Company
614 Reilly Ave.
Farmington, New Mexico 87401
505-599-2286 (office)
505-215-4727 (Cell)
tilong@eprod.com



From: Long, Thomas

Sent: Thursday, April 16, 2020 10:04 AM

To: 'Smith, Cory, EMNRD' < Cory. Smith@state.nm.us >

Cc: Stone, Brian < bmstone@eprod.com>

Subject: RE: Lateral 3B-7 Hydro Test Release - UL G Section 3 T29N R11W; 36.75538, -107.97539

Cory,

Please find the attached site sketch and lab report for the Lateral 3B-7 flow path sampling. All sample results are below the NMOCD Tier I soil remediation standard. I will keep you informed as to when we excavate the pipeline for the repairs and the subsequent sampling for the excavation. If you have any questions, please call or email.

Thomas J. Long Senior Environmental Scientist Enterprise Products Company 614 Reilly Ave. Farmington, New Mexico 87401 505-599-2286 (office) 505-215-4727 (Cell)

tjlong@eprod.com



From: Smith, Cory, EMNRD < Cory.Smith@state.nm.us>

Sent: Tuesday, April 14, 2020 8:26 AM **To:** Long, Thomas < tilong@eprod.com> **Cc:** Stone, Brian < bmstone@eprod.com>

Subject: RE: Lateral 3B-7 Hydro Test Release - UL G Section 3 T29N R11W; 36.75538, -107.97539

Tom.

Thank you for the notice, due to the proximity of the public.. OCD denies Enterprise request to increase sampling size.

Cory Smith

Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 115
cory.smith@state.nm.us

From: Long, Thomas <tilong@eprod.com>
Sent: Monday, April 13, 2020 2:16 PM

To: Smith, Cory, EMNRD < Cory.Smith@state.nm.us>

Cc: Stone, Brian < bmstone@eprod.com>

Subject: [EXT] FW: Lateral 3B-7 Hydro Test Release - UL G Section 3 T29N R11W; 36.75538,

-107.97539

Cory,

This email is a notification that Enterprise will be collecting soil samples for laboratory analysis at the Lateral 3B-7 release site tomorrow Tuesday, April 14, 2020 at 10:00 a.m. In addition, Enterprise is requesting a variance from the 200 square foot sample interval to an approximately 350 square foot sample interval for the surface flow path area. I have attached a site sketch for reference. Please acknowledge acceptance of this variance request. If you have any questions, please call or email.

Thomas J. Long
Senior Environmental Scientist
Enterprise Products Company
614 Reilly Ave.
Farmington, New Mexico 87401
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com



From: Long, Thomas

Sent: Tuesday, April 7, 2020 5:24 PM

To: 'Smith, Cory, EMNRD (Cory.Smith@state.nm.us; Griswold, Jim,

EMNRD < <u>Jim.Griswold@state.nm.us</u>>

Cc: Stone, Brian < bmstone@eprod.com >; Waszut, Michael < MGWASZUT@eprod.com >

Subject: Lateral 3B-7 Hydro Test Release - UL G Section 3 T29N R11W; 36.75538, -107.97539

Cory,

This is a follow up to our phone conversation earlier today. Enterprise had a release of hydro-test water (potable water) during pressure testing of the Lateral 3B-7 pipeline this afternoon. The release

water flowed approximately 600 feet south from the source. The release is located at UL G Section 3 T29N R11W; 36.75538, -107.97539. I have attached a map and photos for reference. The red/pink color is red dye at the proper concentration added to the potable water. I don't have an accurate volume yet, but it is greater than 25 barrels. Hydro testing activities were terminated and the source mitigated. I will keep you inform as to when sampling or remediation activities will be scheduled. If you have any questions, please call or email.

Thomas J. Long
Senior Environmental Scientist
Enterprise Products Company
614 Reilly Ave.
Farmington, New Mexico 87401
505-599-2286 (office)
505-215-4727 (Cell)
tilong@eprod.com



This message (including any attachments) is confidential and intended for a specific individual and purpose. If you are not the intended recipient, please notify the sender immediately and delete this message.

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 11403

CONDITIONS

Operator:	OGRID:
Enterprise Field Services, LLC	241602
PO Box 4324	Action Number:
Houston, TX 77210	11403
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
nvelez	None	5/20/2022