

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	nAPP2127734737
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: HollyFrontier Refining & Marketing LLC	OGRID: 33479
Contact Name: Stan Grant	Contact Telephone: 575-513-2395
Contact email: Stanley.Grant@HollyFrontier.com	Incident # (assigned by OCD)
Contact mailing address: 1602 West Main, Artesia, NM 88210	

Location of Release Source

Latitude 32.8223381 _____ Longitude -103.532959 _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: North Vacuum Abo N. Unit	Site Type
Date Release Discovered: 9/1/2021	API# (if applicable) 30-025-23658

Unit Letter	Section	Township	Range	County
	2	17S	34E	LEA

Surface Owner: State Federal Tribal Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 28	Volume Recovered (bbls) 152
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Driver was distracted and drove off the one-way track highway. Driver tried to maneuver truck back onto highway, but because of the lip on the edge of the roadway, was not able to get the truck back on level ground. Truck hit an elevated lease road which caused driver to roll truck. Trailer split open and released approximately 28 barrels of oil on to the ground. A second truck was dispatched to the accident and recovered 152 barrels of oil from the over turned trailer. The 28 barrels that was released was on the ground and a contract company has been hired to start cleanup of the release.

Oil Conservation Division

Incident ID	nAPP2127734737
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? The release is over 25 barrels and classified as a major release.
---	--

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
 Yes; Email from Rebecca Pons at Talon, LPE. To Mike Bratcher OCD, Artesia, District 1 & 2 on 9/3/2021.

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
--

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Matthew Reinhart Title: VP Global Logistics

Signature:  Date: January 20, 2022 | 14:00 CST

email: matthew.reinhart@hollyfrontier.com Telephone: 214.871.3473

OCD Only

Received by: _____ Date: _____

Incident ID	nAPP2127734737
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	75 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

<p>Characterization Report Checklist: <i>Each of the following items must be included in the report.</i></p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. <input checked="" type="checkbox"/> Field data <input checked="" type="checkbox"/> Data table of soil contaminant concentration data <input checked="" type="checkbox"/> Depth to water determination <input checked="" type="checkbox"/> Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release <input type="checkbox"/> Boring or excavation logs <input checked="" type="checkbox"/> Photographs including date and GIS information <input checked="" type="checkbox"/> Topographic/Aerial maps <input checked="" type="checkbox"/> Laboratory data including chain of custody
--

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

Oil Conservation Division

Incident ID	nAPP2127734737
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Matthew Reinhart Title: VP Global Logistics

Signature:  Date: January 20, 2022 | 14:00 CST

email: matthew.reinhart@hollyfrontier.com Telephone: 214.871.3473

OCD Only

Received by: _____ Date: _____

Incident ID	nAPP2127734737
District RP	
Facility ID	
Application ID	

Remediation Plan

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

- Detailed description of proposed remediation technique
- Scaled sitemap with GPS coordinates showing delineation points
- Estimated volume of material to be remediated
- Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.

- Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- Extents of contamination must be fully delineated.
- Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Matthew Reinhart Title: VP Global Logistics

Signature:  Date: January 20, 2022 | 14:00 CST

email: matthew.reinhart@hollyfrontier.com Telephone: 214.871.3473

OCD Only

Received by: _____ Date: _____

- Approved Approved with Attached Conditions of Approval Denied Deferral Approved

Signature: _____ Date: _____

Oil Conservation Division

Incident ID	nAPP2127734737
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 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Matthew Reinhart Title: VP Global Logistics

Signature:  Date: January 20, 2022 | 14:00 CST

email: matthew.reinhart@hollyfrontier.com Telephone: 214.871.3473

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

talonlpe.com • 866.742.0742



Remediation and Closure Report

HollyFrontier Refining & Marketing LLC
Lea County
Incident ID: **nAPP2127734737**

Prepared For:

HollyFrontier Refining & Marketing LLC
2828 N. Harwood, Ste 1300
Dallas, TX 75201

Prepared By:

TALON/LPE
408 W. Texas Avenue
Artesia, NM 88210

January 20, 2022



Mike Bratcher
NMOCD District 1
811 S. 1st Street
Artesia, NM 88210

Subject: HollyFrontier Refining & Marketing LLC
Lea County
Incident ID: **nAPP2127734737**

Dear Mr. Bratcher,

BB&I Trucking has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced location. The results of our soil assessment and remediation activities are contained herein.

Site Information

The location of the roll-over incident from the crude oil hauler is located approximately five (5) miles west of Lovington, New Mexico. The legal location for this release is Section 10, Township 16 South and Range 35 East in Lea County, New Mexico. More specifically the latitude and longitude for the release are 32.943776 North and -103.442882 West. A site plan is presented in [Appendix I](#).

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of Kimbrough Lea Complex, with a 0-3 percent slope. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology in the Ogallala formation in the lower Pliocene to middle Miocene in age and is comprised of eolian deposits derived from sedimentary rock. Drainage courses in this area are well drained [Appendix II](#).

Groundwater and Site Characterization

The New Mexico Office of the State Engineer Database indicates the nearest reported depth to groundwater is 60-feet below ground surface (BGS), as referenced in POD (Point of Diversion) record L 02456 POD4. The reference POD indicated that depth to water is 60' (below ground surface) bgs. Further research of the Bureau of Land Management Karst Data indicated that this site is not located within a potential Karst area.

Pursuant to Table I, New Mexico Oil Conservation Division (NMOCD) Rule 19.15.29 of the New Mexico Administrative Code (NMAC), if a release occurs within the following areas, the responsible party must treat the release as if it occurred less than 50 feet to the groundwater.

Approximate Depth to Groundwater	60 Feet/BGS
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within 300 feet of any continuously flowing watercourse or any other significant watercourse
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within 200 feet of any lakebed, sinkhole or playa lake
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within 300 feet from an occupied permanent residence, school, hospital, institution or church
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within 1000 feet of any fresh water well or spring
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within incorporated municipal boundaries or within a defined Municipal fresh water well field covered under a municipal ordinance adopted pursuant to Section 3-2703 NMSA 1978
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within 300 feet of a wetland
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within the area overlying a subsurface mine
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within an unstable area
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within a 100-year floodplain

This release did not occur within any of these areas. However, the impacted area is situated in pasture area, and the analytical data indicates Total Petroleum Hydrocarbons (TPH) in excess of 100 mg/kg. As such, the upper 4-feet of this area will be restored to levels set forth in Table 1, 19.15.29 NMAC closure criteria. Therefore, the reclamation closure criteria for this site will be as follows:

Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/l TDS	Constituent	Method	Limit
≤ 50'	Chloride	EPA 300.0 or SM4500 Cl B	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

Incident Description

According to the C-141: on September 01, 2021, a crude oil hauler lost control of the transport and trailer. The trailer-tanker split open releasing 28 barrels of oil onto the highway easement. A second truck was dispatched to the accident and recovered 152 barrels of oil from the over turned trailer. (Appendix III).

Site Assessment

On September 03, 2021 Talon mobilized personnel to begin the site assessment and soil sampling activities of the impacted area. Soil samples were collected within and around the impacted area utilizing a hand auger to the extent that refusal was encountered. Impacted area as well as sample positions can be referenced in [Appendix I](#). All soil samples were properly collected, packaged, preserved, and transported to Hall Laboratories for analysis of Total Chloride analyte (Method EPA 300.0), BTEX (Benzene, Toluene, Ethylbenzene, and Xylenes Method 8021), and TPH (Total Petroleum Hydrocarbons Method 8015 M/D). A complete laboratory report can be found in [Appendix V](#).

Table 1
Assessment Data

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg	DRO + GRO + MRO combined = 100 mg/kg			100 mg/kg	600 mg/kg
S-1	9/3/2021	0-1' R	190	20	4400	12000	5000	21400	680
S-2	9/3/2021	0-1'	290	350	8900	14000	6300	29200	61
	9/3/2021	2'	340	430	11000	14000	5200	30200	130
	9/3/2021	2.5' R	360	380	11000	15000	5200	31200	180
S-3	9/3/2021	0-1'	420	470	13000	13000	4400	30400	ND
	9/3/2021	2' R	26	2.9	620	2000	700	3320	ND
S-4	9/3/2021	0-1' R	500	580	15000	23000	7700	45700	ND

ND=Analyte Not Detected

R=Refusal

On September 20, 2021, Talon personnel and equipment mobilized to the site in order to vertically delineate the impacted area at and near the source. A single test trench was advanced with grab samples obtained at each single foot advancement and field titrated for results. The final sample returned results amicable with table I soil remediation guidelines. Therefore, the soil was contained and transported to Hall Laboratories for confirmation of analyte levels. The results are tabled below.

Table II
9/30/2021

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg	DRO + GRO + MRO combined = 100 mg/kg			100 mg/kg	600 mg/kg
TT-1	9/20/2021	10'	ND	ND	ND	27	ND	27	ND

ND=Analyte Not Detected

TT=Test Trench

The full laboratory report can be viewed in [Appendix V](#).

Remedial Actions

The impacted area has been excavated from depths of 4' bgs. to 10' bgs. respectively, or to the extent practicable due to highway shoulder, and utility lines. Fiber optic lines were hydro-excavated to remove contamination around the lines. The bottom as well as the sidewalls were advanced and excavated to the extent that, all impacted soils above closure criteria were removed. The crude leached northward impacting the highway sidewall. All contaminated soil has been transported and disposed of at Lea Landfill an NMOCD approved facility. All fluid from the Hydro-excavation was disposed of at R360 and NMOCD approved facility. Excavation and sample area maps are attached in [Appendix I](#).

Table III
Confirmation Data

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg	DRO + GRO + MRO combined = 100 mg/kg			100 mg/kg	600 mg/kg
S-1	10/21/2021	10'	ND	ND	ND	43	ND	43	ND
S-2	10/21/2021	10'	ND	ND	ND	44	ND	44	ND
S-3	10/21/2021	8'	ND	ND	ND	40	ND	40	ND
S-4	10/21/2021	7-8'	ND	ND	ND	45	ND	45	ND
S-5	10/21/2021	6'	ND	ND	ND	46	ND	46	ND
S-6	10/21/2021	6'	ND	ND	ND	47	ND	47	ND
S-7	10/21/2021	6'	ND	ND	ND	50	ND	50	ND
S-8	10/21/2021	6'	ND	ND	ND	49	ND	49	ND
W.SW	10/21/2021	10'	ND	ND	ND	57	ND	57	ND
N.SW-1	10/21/2021	10'	ND	ND	ND	46	ND	46	ND
N.SW-2	10/21/2021	7-8'	ND	ND	ND	49	ND	49	ND
N.SW-3	10/21/2021	6'	ND	ND	ND	41	ND	41	ND
N.SW-4	10/21/2021	6'	ND	ND	ND	54	ND	54	ND
E.SW	10/21/2021	6'	ND	ND	ND	52	ND	52	ND
S.SW-1	10/21/2021	10'	ND	ND	ND	62	ND	62	ND
S.SW-2	10/21/2021	7-8'	ND	ND	ND	40	ND	40	ND
S.SW-3	10/21/2021	6'	ND	ND	ND	48	ND	48	ND
S.SW-4	10/21/2021	6'	ND	ND	ND	46	ND	46	ND

ND=Analyte Not Detected

*SW=Sidewall Horizontal Advancement

Closure

Pursuant to NMOCD guidelines the excavation was advanced vertically and horizontally to the extent that the sidewalls and excavation floor tested for chlorides <600 mg/kg, and TPH <100 mg/kg. The north sidewall was advanced to the extent practicable, without compromising the integrity of the highway shoulder. The excavation was backfilled with fresh, clean caliche to within 4 feet of surface. Four feet of clean topsoil mixed with native sand was used to backfill to surface restoring the area to shoulder grade as documented with photo's ([Appendix V](#)).

Talon LPE, on behalf of HollyFrontier Refining & Marketing LLC respectfully submits this closure report, requesting that no further action be required and the regulatory file be closed.

Should you have any questions or if further information is required, please do not hesitate to contact our office at 575-746-8768.

Respectfully submitted,

TALON/LPE

Rebecca Pons
Senior Environmental Project Manager

Attachments:

Appendix I Site Maps
Appendix II Groundwater Data, Soil Survey
Appendix III C-141 Forms
Appendix IV Photo Documentation
Appendix V Laboratory Data



APPENDIX I

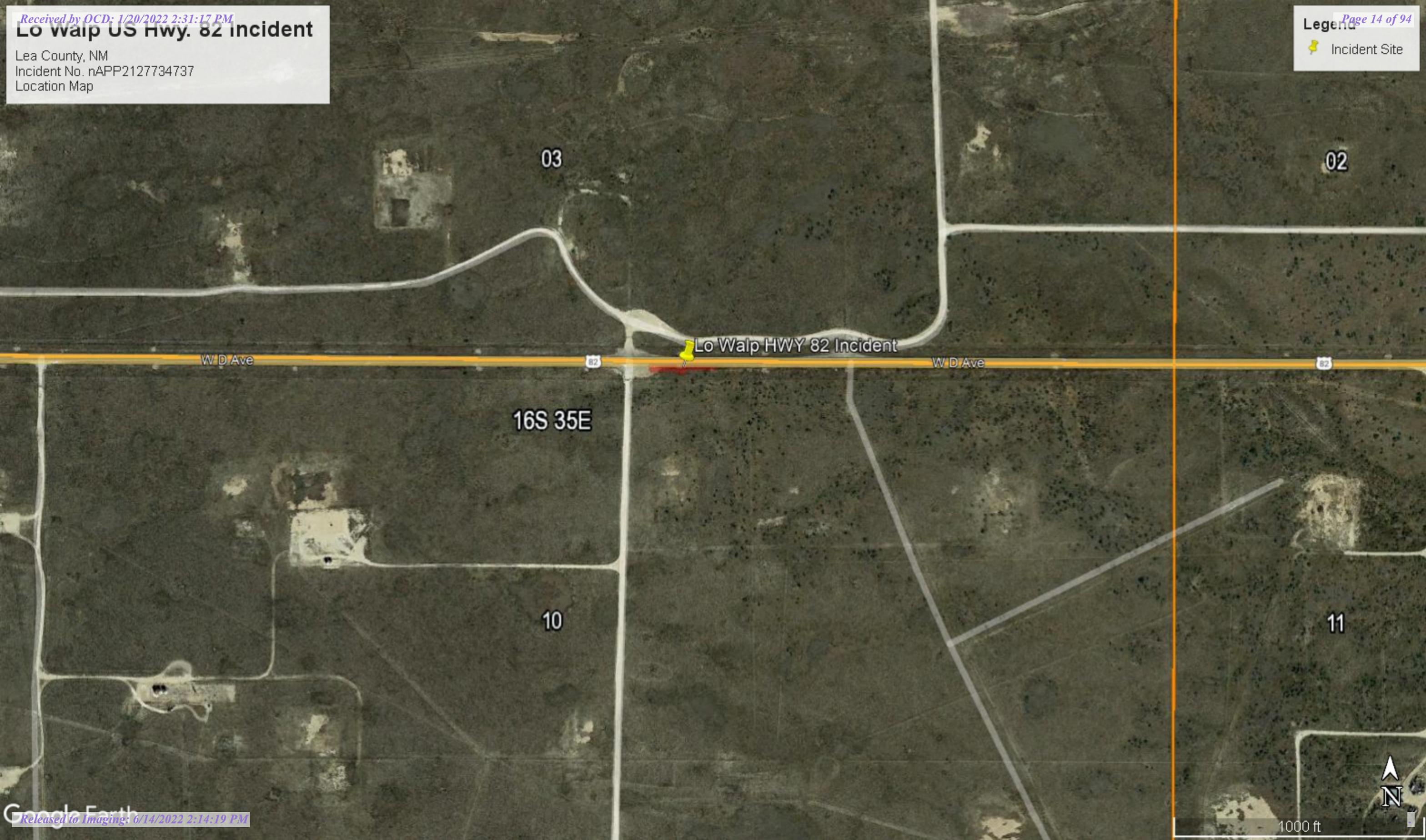
SITE PLANS

Lo Walp US Hwy. 82 incident

Lea County, NM
Incident No. nAPP2127734737
Location Map

Legend

- Incident Site



03

02

Lo Walp HWY 82 Incident

W D Ave

82

W D Ave

82

16S 35E

10

11



1000 ft

Highway Spill

LoWalp MP82
Lea County, NM

Legend

- Sample Point
- Spill

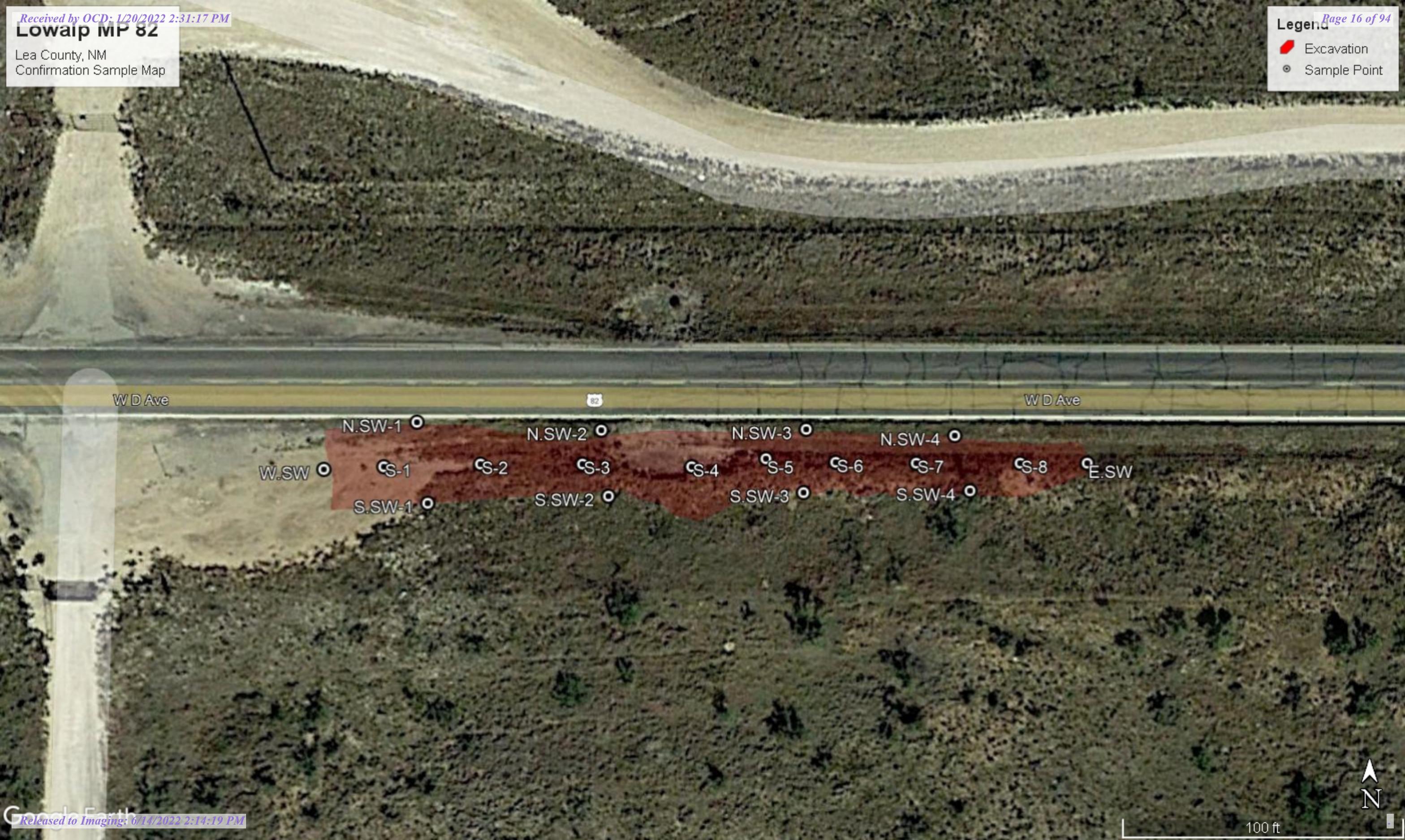


Lowaip MP 82

Lea County, NM
Confirmation Sample Map

Legend

-  Excavation
-  Sample Point

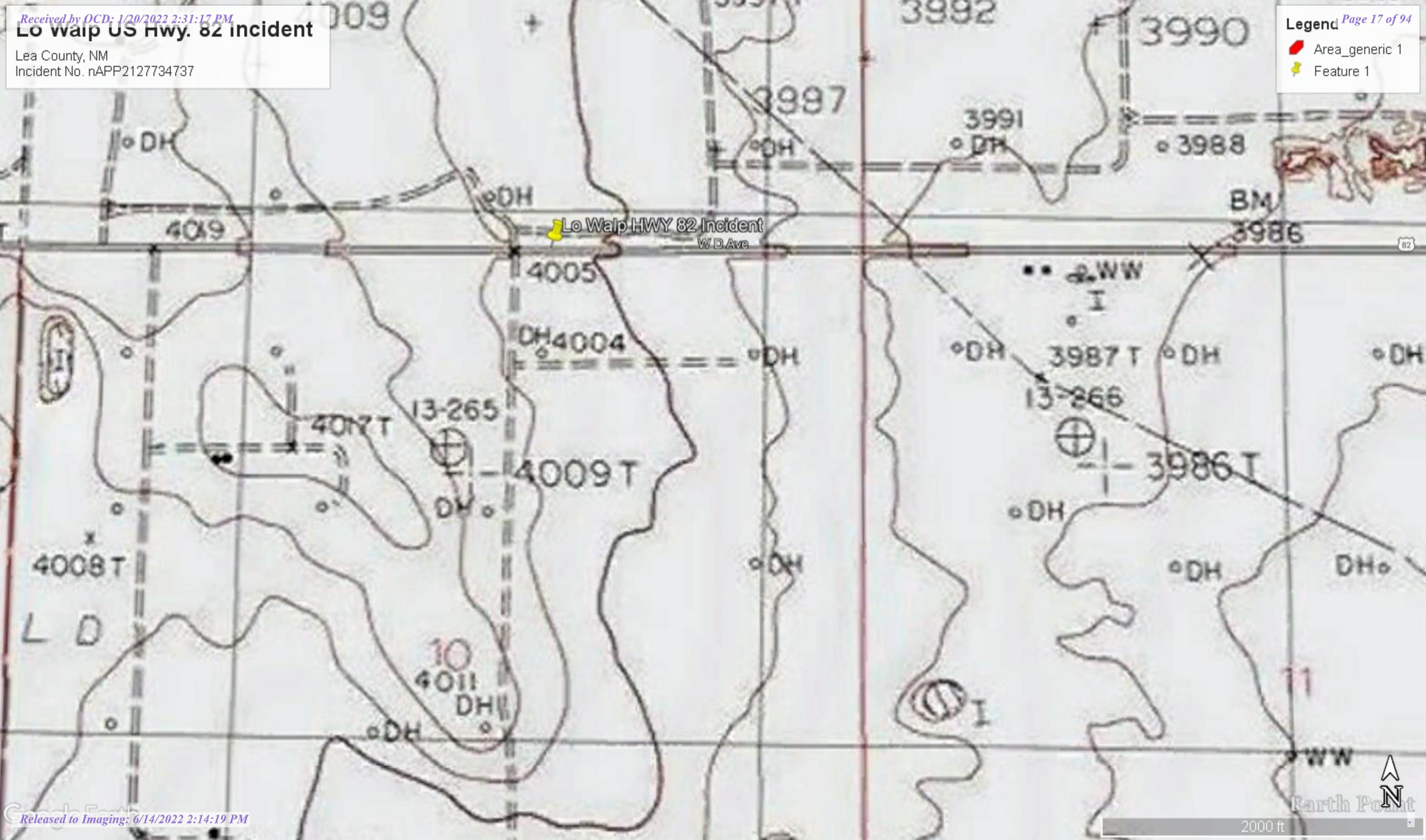


Lo walp US Hwy. 82 incident

Lea County, NM
Incident No. nAPP2127734737

Legend *Page 17 of 94*

-  Area_generic 1
-  Feature 1



Highway 82 Rollover Incident

LoWalp MP 82
Incident Number
Lea county, NM

Legend

- Feature 1
- Low
- Medium
- Roll-over Incident





APPENDIX II

GROUNDWATER DATA

SOIL SURVEY



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

(R=POD has been replaced, O=orphaned, C=the file is closed)

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

(NAD83 UTM in meters)

(In feet)

POD Number	POD Code	Sub-basin	County	Q 64	Q 16	Q 4	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
L_02456	L	LE		2	10	16S	35E				645726	3645731*	441	105	60	45
L_02385	L	LE		4	3	03	16S	35E			645108	3646330*	469	105	64	41
L_11462	L	LE		3	2	4	03	16S	35E		645814	3646636*	582	140	75	65
L_07704	L	LE		4	4	2	12	16S	33E		645601	3645421	708	210	135	75
L_02713	L	LE		2	4	03	16S	35E			645915	3646737*	720	103	50	53
L_10158	L	LE		2	3	03	16S	35E			645102	3646732*	741	128	40	88
L_02578	L	LE		3	1	1	11	16S	35E		646231	3645837*	757	105	60	45
L_10221	L	LE		3	1	1	11	16S	35E		646231	3645837*	757	133	70	63
L_02727	L	LE		3	3	02	16S	35E			646327	3646339*	823	107	60	47
L_02799	L	LE				03	16S	35E			645305	3646931*	835	103	65	38
L_03090	L	LE				03	16S	35E			645305	3646931*	835	110	60	50
L_01510 POD1	L	LE		1	1	10	16S	35E			644708	3645925*	847	115	60	55
L_02548	L	LE		3	3	03	16S	35E			644702	3646328*	853	100	60	40
L_02649	L	LE		1	1	4	10	16S	35E		645430	3645228*	904	122	60	62
L_01878 POD1	L	LE		3	3	3	03	16S	35E		644601	3646227*	935	110	56	54
L_02860	L	LE		1	3	02	16S	35E			646322	3646739*	1000	112	55	57
L_02956	L	LE		3	4	1	03	16S	35E		644995	3647033*	1052	130	58	72
L_05904 S	R	L	LE			3	02	16S	35E		646528	3646540*	1079	150	60	90
L_05904 S2	R	L	LE			3	02	16S	35E		646528	3646540*	1079	120	60	60
L_00272	L	LE		1	2	1	11	16S	35E		646632	3646043*	1104	80	60	20
L_02711	L	LE		2	1	11	16S	35E			646733	3645944*	1215	105	51	54
L_14098 POD1	L	LE		2	2	1	11	16S	35E		646856	3646038	1327	140	53	87
L_02958	L	LE		4	1	11	16S	35E			646738	3645542*	1341	101	45	56
L_02945	L	LE		2	3	02	16S	35E			646722	3646746*	1342	110	65	45
L_02386	L	LE		4	2	09	16S	35E			644310	3645520*	1363	114	60	54
L_05904 S4	R	L	LE			1	03	16S	35E		644891	3647333*	1365	136	60	76
L_02521	L	LE		4	4	10	16S	35E			645942	3644731*	1455	110	50	60
L_02812	L	LE		2	3	11	16S	35E			646744	3645141*	1563	100	50	50
L_03052	L	LE		2	3	11	16S	35E			646744	3645141*	1563	126	60	66
L_01851 POD2	L	LE				1	02	16S	35E		646519	3647340*	1564	100	65	35
L_02755	L	LE		1	2	11	16S	35E			647134	3645949*	1612	105	55	50
L_03000	L	LE				02	16S	35E			646930	3646942*	1619	105		
L_01681 POD1	L	LE		3	3	10	16S	35E			644725	3644719*	1622	120		

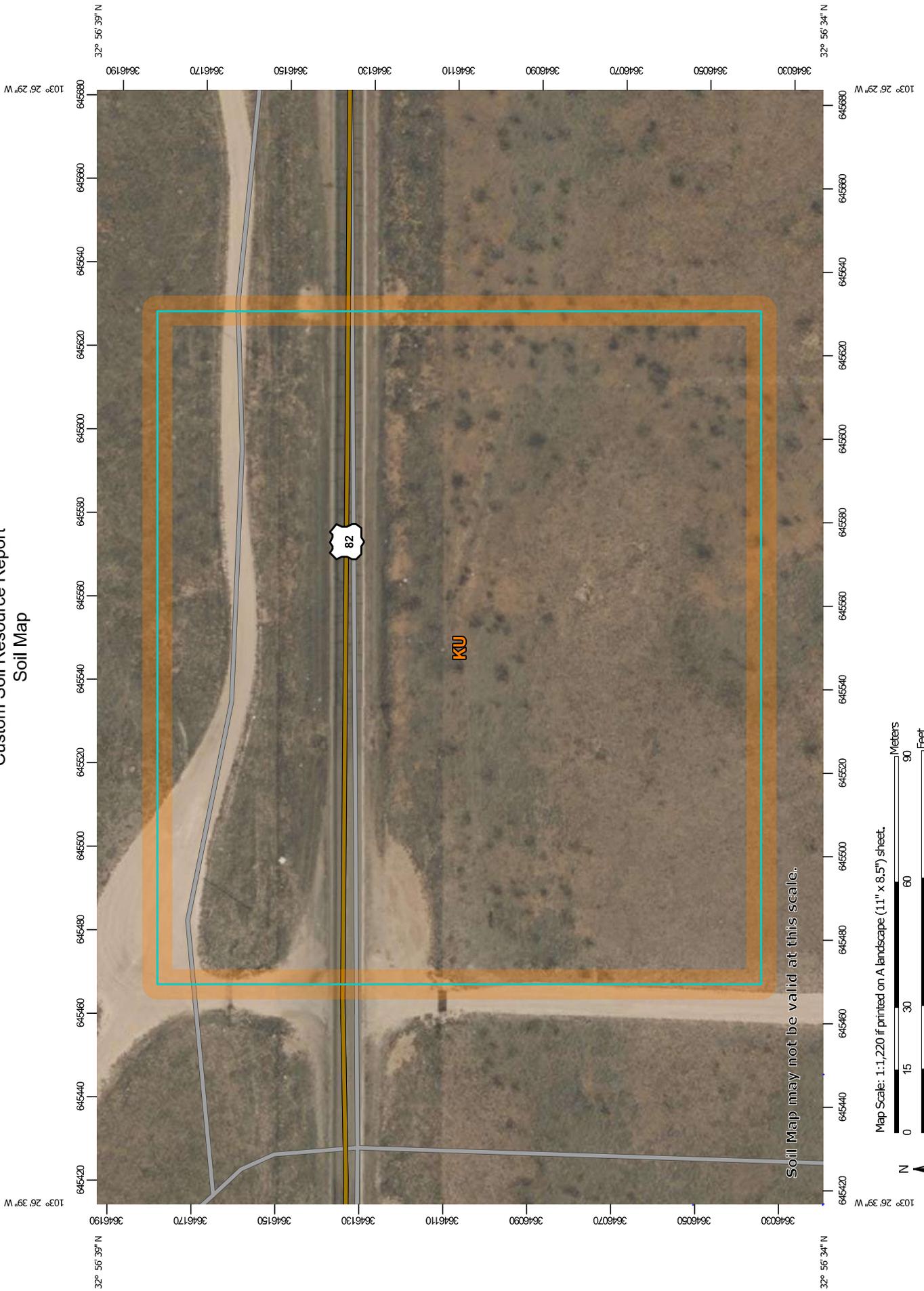
L 00272 S	L	LE	3	2	11	16S	35E	647140	3645548*	1710	96	60	36	
L 02794	L	LE	1	1	2	09	16S	35E	643799	3646019*	1735	122	50	72
L 08454	L	LE	3	3	4	04	16S	35E	643793	3646221*	1740	115	62	53
L 01799 POD1	L	LE		1	4	04	16S	35E	643889	3646725*	1747	110	60	50
L 00272 S3	L	LE	1	1	4	11	16S	35E	647044	3645245*	1751	90	45	45
L 01690 POD1	L	LE	3	1	2	09	16S	35E	643799	3645819*	1759	115	50	65
L 00272 S2	L	LE	1	2	2	11	16S	35E	647434	3646054*	1904	90	46	44
L 02618	L	LE	1	1	4	09	16S	35E	643811	3645214*	1947	108	50	58
L 07438	L	LE	3	3	2	04	16S	35E	643782	3647026*	1966	115	58	57
L 14690 POD1	L	LE	4	2	2	11	16S	35E	647547	3645833	2037	148	51	97
L 02270	L	LE	4	3	04	16S	35E	643490	3646319*	2050	85	58	27	
L 03013	L	LE	2	4	02	16S	35E	647522	3646759*	2088	123	70	53	
L 08616	L	LE	2	3	04	16S	35E	643484	3646722*	2131	120			
L 05904 S3	R	L		2	02	16S	35E	647316	3647355*	2166	132			
L 00272 POD5	L	LE		4	11	16S	35E	647352	3644946*	2170	80	60	20	
L 03344	L	LE	3	2	15	16S	35E	645548	3643922*	2205	120	60	60	
L 00608	L	LE	1	3	1	14	16S	35E	646258	3644029*	2220	80		
L 03170	L	LE	1	1	1	12	16S	35E	647834	3646060*	2303	105	48	57
L 11297	L	LE	1	4	4	11	16S	35E	647452	3644849*	2307	150	48	102
L 03029	L	LE	1	3	3	01	16S	35E	647828	3646462*	2321	120	65	55
L 01624 S2	L	LE	2	4	3	09	16S	35E	643613	3644809*	2327	152	56	96
L 04010	L	LE	4	1	1	09	16S	35E	643191	3645813*	2360	100	72	28
L 01624 S	L	LE	2	3	1	09	16S	35E	643197	3645611*	2390	138	80	58
L 10594	L	LE	3	3	1	01	16S	35E	647814	3647067*	2468	136	40	96
L 03092	L	LE		1	3	01	16S	35E	647922	3646765*	2474	120	65	55
L 05557 S	L	LE	2	2	3	15	16S	35E	645248	3643615*	2527	80	51	29
L 01624	L	LE	1	1	1	09	16S	35E	642991	3646013*	2542	154	55	99
L 03756	L	LE	3	3	3	04	16S	35E	642985	3646216*	2547	98	60	38
L 05557 S2	L	LE	1	2	3	15	16S	35E	645048	3643615*	2558	100	42	58
L 06936	L	LE	2	2	1	16	16S	35E	643620	3644407*	2571	100	65	35
L 03243	L	LE		1	4	15	16S	35E	645554	3643520*	2607	120	50	70
L 15090 POD1	L	LE	4	4	4	31	15S	35E	645913	3648726	2627	200	80	120
L 03164	L	LE		3	01	16S	35E	648130	3646564*	2635	120	65	55	
L 08892	L	LE		2	3	15	16S	35E	645149	3643516*	2638	86	49	37
L 15090 POD2	L	LE	4	4	4	31	15S	35E	645803	3648784	2671	200		
L 00608 S	L	LE	3	1	3	14	16S	35E	646264	3643427*	2797	78		
L 03214	L	LE		4	3	01	16S	35E	648331	3646370*	2810	120	50	70
L 02971	L	LE	2	4	1	16	16S	35E	643627	3644004*	2851	136	60	76
L 05557 S3	L	LE	3	1	3	15	16S	35E	644642	3643411*	2857	80	46	34
L 03263	L	LE		2	3	01	16S	35E	648324	3646772*	2866	120	50	70
L 05904	R	L		1	01	16S	35E	648116	3647369*	2867	150	70	80	

L 00270	L	LE	1	1	1	13	16S	35E	647860	3644451*	2869	82			
L 03058	L	LE		3	3	31	15S	35E	644525	3648820*	2874	85	71	14	
L 03083	L	LE		3	3	31	15S	35E	644525	3648820*	2874	85	73	12	
L 05021	L	LE	2	1	1	16	16S	35E	643216	3644404*	2885	172	65	107	
L 07470	L	LE	4	4	4	36	15S	34E	644222	3648712*	2897	100	54	46	
L 03141	L	LE	2	3	3	31	15S	35E	644624	3648919*	2935	130	65	65	
L 02567	L	LE	3	2	2	08	16S	35E	642590	3645809*	2958	105	55	50	
L 14096 POD1	L	LE	3	2	4	31	15S	35E	645607	3649092	2966	171	50	121	
L 05557	L	LE	2	3	3	15	16S	35E	644848	3643208*	2997	90	42	48	
L 00627	L	LE	4	2	4	31	15S	35E	645838	3649144*	3032	70	55	15	
L 02975	L	LE		4	4	36	15S	34E	644123	3648813*	3032	120	63	57	
L 00270 S	L	LE	2	1	1	13	16S	35E	648060	3644451*	3033	82			
L 03343	L	LE		4	4	15	16S	35E	645965	3643121*	3037	120	60	60	
L 03357	L	LE				01	16S	35E	648532	3646966*	3116	120	60	60	
L 03420	L	LE				01	16S	35E	648532	3646966*	3116	120	60	60	
L 00270 S2	L	LE	1	3	1	13	16S	35E	647866	3644049*	3125	93	34	59	
L 09593	L	LE		4	3	12	16S	35E	648357	3644761*	3138	130			
L 11247	L	LE	3	1	4	01	16S	35E	648624	3646678*	3141	158			
L 10272	L	LE	4	2	1	01	16S	35E	648409	3647475*	3178	120	80	40	
L 03663 POD2	R	L	LE	1	1	4	01	16S	35E	648624	3646878*	3182	164	60	104
L 08312	L	LE		2	2	05	16S	35E	642667	3647519*	3184	132	60	72	
L 00627 S	L	LE	2	1	4	31	15S	35E	645435	3649337*	3211				
L 01385	L	LE		1	2	12	16S	35E	648739	3645975*	3211	100	45	55	
L 02918	L	LE	2	2	2	17	16S	35E	642815	3644399*	3219	105	105	0	
L 03122	L	LE	4	2	3	32	15S	35E	646643	3649159*	3229	138	70	68	
L 02921	L	LE		1	2	08	16S	35E	642291	3645905*	3247	102	60	42	
L 00627 POD3	L	LE	1	1	3	32	15S	35E	646041	3649352*	3265	90	60	30	
L 00960 POD1	L	LE				1	13	16S	35E	648168	3644151*	3295	65	44	21
L 03169	L	LE		1	4	08	16S	35E	642302	3645100*	3388	120	55	65	
L 03309	L	LE				4	01	16S	35E	648933	3646578*	3431	120	60	60
L 02914	L	LE	3	4	3	36	15S	34E	643217	3648696*	3457	125			
L 07020	L	LE	1	4	4	14	16S	35E	647476	3643239*	3481	130	80	50	
L 03178	L	LE		3	4	08	16S	35E	642308	3644698*	3525	120	55	65	
L 08312 S	L	LE				05	16S	35E	642086	3646900*	3530	140	60	80	
L 10629	L	LE				05	16S	35E	642086	3646900*	3530	115			
L 06042	L	LE		3	3	33	15S	35E	647758	3648881*	3541	92	52	40	
L 10668	L	LE		1	3	13	16S	35E	647973	3643548*	3551	150	53	97	
L 03053	L	LE	1	3	4	08	16S	35E	642207	3644797*	3580	120	65	55	
L 07264	L	LE	2	2	3	05	16S	35E	641977	3646804*	3617	150			
L 00387	L	LE	1	1	2	23	16S	35E	647079	3642832*	3640	72			
L 00387	R	L	LE	1	1	2	23	16S	35E	647079	3642832*	3640	72		

L 07270	L	LE	4	4	1	05	16S	35E	641971	3647006*	3666	130	65	65
L 09817	L	LE		4	1	32	15S	35E	646538	3649663*	3676	130	65	65
L 02926	L	LE	1	1	4	36	15S	34E	643614	3649306*	3712	105	70	35
L 13370 POD1	L	LE		1	3	13	16S	35E	647777	3643150	3729	175		
L 00387 S	L	LE	3	1	2	23	16S	35E	647079	3642632*	3822	66		
L 00447	L	LE		2	3	13	16S	35E	648375	3643554*	3835	75		
L 08047	L	LE		4	2	22	16S	35E	645977	3642317*	3836	137	65	72
L 03018	L	LE		1	3	33	15S	35E	647752	3649283*	3859	116	50	66
L 04974	L	LE		3	3	16	16S	35E	643139	3643097*	3860	330	280	50
L 15008 POD1	L	LE	2	2	3	36	15S	34E	643417	3649407	3902	225	120	105
L 00387 S2	L	LE	4	1	2	23	16S	35E	647279	3642632*	3907	65	40	25
L 03305	L	LE	2	2	1	17	16S	35E	642013	3644390*	3923	130	62	68
L 10243	L	LE	3	3	4	33	15S	35E	648462	3648794*	3962	120	69	51
L 00275	L	LE	1	1	4	13	16S	35E	648677	3643659*	3998	126	86	40
L 07187	L	LE		3	3	06	16S	36E	649536	3646391*	4013	112	56	56
L 00387 POD2	L	LE	1	1	1	24	16S	35E	647884	3642842*	4040	100	80	20
L 00387 POD3	L	LE	1	1	1	24	16S	35E	647884	3642842*	4040	127	60	67
L 02694	L	LE	1	1	1	24	16S	35E	647884	3642842*	4040	69	56	13
L 13724 POD1	L	LE	1	1	3	06	16S	36E	649440	3647426	4119	125	50	75
L 11266	L	LE	2	4	2	32	15S	35E	647352	3649825	4122	170		
L 14252 POD1	L	LE	2	3	1	06	16S	36E	649500	3647248	4124	140	53	87
L 00153 POD3	L	LE		1	3	07	16S	36E	649556	3645184*	4133	120	60	60
L 00275 POD3	L	LE		1	4	13	16S	35E	648778	3643560*	4139	132	90	42
L 00275 POD2	R	LE	2	1	4	13	16S	35E	648877	3643659*	4157	128	46	82
L 13987 POD1	L	LE	4	3	1	06	16S	36E	649592	3647028	4159	141	70	71
L 00387 POD5	R	LE	2	1	1	24	16S	35E	648084	3642842*	4160	116	48	68
L 05363	L	LE		1	1	24	16S	35E	647985	3642743*	4180	85	70	15
L 02957	L	LE		3	1	33	15S	35E	647745	3649686*	4191	120	65	55
L 12324 POD1	L	LE	3	4	1	06	16S	36E	649595	3647173	4196	120	52	68
L 00387 POD4	L	LE	3	1	1	24	16S	35E	647884	3642642*	4204	81	48	33
P 03010	P	RO	3	4	4	30	15S	35E	645619	3650352*	4225		82	
L 06206	L	LE		3	06	16S	36E	649737	3646592*	4231	70	50	20	
L 10577	L	LE		3	06	16S	36E	649737	3646592*	4231	140	52	88	
L 10628	L	LE		3	06	16S	36E	649737	3646592*	4231	100	55	45	
L 11149	L	LE		3	06	16S	36E	649737	3646592*	4231	100	55	45	
L 01111 POD1	L	LE	4	4	3	13	16S	35E	648481	3643050*	4262	63	61	2
L 09764	L	LE	4	4	3	13	16S	35E	648481	3643050*	4262	122	50	72
L 02814	L	LE		3	3	08	16S	35E	641506	3644689*	4274	85	50	35
L 05706	L	LE	3	2	1	07	16S	36E	649808	3645894*	4283	74	60	14
L 00387 POD6	L	LE	1	2	1	24	16S	35E	648287	3642848*	4283	116		
L 08466	L	LE	1	4	3	06	16S	36E	649802	3646496*	4286	110	54	56

L 10381		L	LE	3	4	30	15S	35E	645317	3650445*	4323	175	60	115	
L 03104		L	LE		1	06	16S	36E	649718	3647396*	4375	125	65	60	
L 07497		L	LE		1	06	16S	36E	649718	3647396*	4375	100	58	42	
L 07110		L	LE	4	3	06	16S	36E	649903	3646397*	4380	100	57	43	
L 12959 POD1		L	LE	2	3	1	24	16S	35E	648013	3642513	4384	140	47	93
L 00442		L	LE	1	1	4	23	16S	35E	647091	3642028	4385	170	60	110
L 00153		L	LE		3	07	16S	36E	649765	3644983*	4385	104			
L 00631		L	LE	3	3	4	13	16S	35E	648683	3643056*	4400	110	70	40
L 00631	R	L	LE	3	3	4	13	16S	35E	648683	3643056*	4400	110	70	40
L 00983 POD1		L	LE	3	3	4	13	16S	35E	648683	3643056*	4400	64		
L 00275 POD5		L	LE		4	13	16S	35E	648985	3643358*	4426	144	65	79	
L 11937 POD1	R	L	LE	4	4	2	06	16S	35E	641142	3646940	4464	160	58	102
L 12942 POD1		L	LE	4	4	3	06	16S	36E	650018	3646347	4492	116	50	66
L 01727		L	LE	1	1	33	15S	35E	647739	3650088*	4534	130	60	70	
L 01727	R	L	LE	1	1	33	15S	35E	647739	3650088*	4534	130	60	70	
L 00631 S		L	LE	4	3	4	13	16S	35E	648883	3643056*	4546	144	85	59
L 05554		L	LE	1	4	2	07	16S	35E	640992	3645588*	4570	170	60	110
L 11684		L	LE	2	2	2	06	16S	35E	641162	3647598*	4609	156		
L 11937 POD2		L	LE	2	2	2	06	16S	35E	641117	3647568	4643	168	57	111
L 14728 POD1		L	LE	3	3	4	06	16S	36E	650185	3646230	4655	103	50	53
L 11221		L	LE	2	1	1	33	15S	35E	647838	3650187*	4669	176		
L 03697		L	LE		06	16S	36E	650139	3646994*	4688	118	60	60	58	
L 03773		L	LE		06	16S	36E	650139	3646994*	4688	120	50	50	70	
L 03862		L	LE		06	16S	36E	650139	3646994*	4688	95	40	40	55	
L 09962		L	LE		06	16S	36E	650139	3646994*	4688	138	60	60	78	
L 10024		L	LE		06	16S	36E	650139	3646994*	4688	138	60	60	78	
L 01856		L	LE	2	1	2	24	16S	35E	648889	3642854*	4689	100	65	35
L 00275 POD4		L	LE		1	2	24	16S	35E	648790	3642755*	4689	135	60	75
L 08491		L	LE	3	3	23	16S	35E	646393	3641517*	4689	100			
L 14756 POD1		L	LE	3	1	4	06	16S	36E	650184	3646735	4693	160	60	100
L 14170 POD1		L	LE	1	3	4	06	16S	36E	650228	3646448	4708	145	70	75
L 02160		L	LE	1	4	4	07	16S	35E	641004	3644783*	4722	132	68	64
L 08230		L	LE	4	2	20	16S	35E	642749	3642287*	4741	157	60	60	97
L 13801 POD1		L	LE	1	1	4	06	16S	36E	650216	3646888	4746	168	60	108
L 14764 POD1		L	LE	3	3	4	06	16S	36E	650283	3646265	4754	103	61	42
L 00442 POD2		L	LE	1	3	4	23	16S	35E	647098	3641625*	4766	70	50	20
L 01602 POD1		L	LE	2	2	18	16S	35E	641111	3644282*	4789	145			
L 01033 POD1		L	LE	4	4	4	13	16S	35E	649286	3643062*	4847	70	50	20
L 07975		L	LE	1	3	24	16S	35E	647997	3641939*	4860	88	43	43	45
L 07974		L	LE	3	1	3	24	16S	35E	647896	3641838*	4897	90	45	45
L 13218 POD4		L	LE	3	1	3	34	15S	35E	649314	3649240	4898	68		

Custom Soil Resource Report
Soil Map



Map Scale: 1:1,220 if printed on A landscape (11" x 8.5") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 13N WGS84



Custom Soil Resource Report

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL:
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Lea County, New Mexico
 Survey Area Data: Version 18, Sep 10, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 7, 2020—May 12, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

MAP LEGEND

 Area of Interest (AOI)	 Spoil Area
 Soil Map Unit Polygons	 Stony Spot
 Soil Map Unit Lines	 Very Stony Spot
 Soil Map Unit Points	 Wet Spot
 Special Point Features	 Other
 Blowout	 Special Line Features
 Borrow Pit	 Streams and Canals
 Clay Spot	 Rails
 Closed Depression	 Interstate Highways
 Gravel Pit	 US Routes
 Gravelly Spot	 Major Roads
 Landfill	 Local Roads
 Lava Flow	 Aerial Photography
 Marsh or swamp	
 Mine or Quarry	
 Miscellaneous Water	
 Perennial Water	
 Rock Outcrop	
 Saline Spot	
 Sandy Spot	
 Severely Eroded Spot	
 Sinkhole	
 Slide or Slip	
 Sodic Spot	

Custom Soil Resource Report

Lea County, New Mexico**KU—Kimbrough-Lea complex, dry, 0 to 3 percent slopes****Map Unit Setting**

National map unit symbol: 2tw46
Elevation: 2,500 to 4,800 feet
Mean annual precipitation: 14 to 16 inches
Mean annual air temperature: 57 to 63 degrees F
Frost-free period: 180 to 220 days
Farmland classification: Not prime farmland

Map Unit Composition

Kimbrough and similar soils: 45 percent
Lea and similar soils: 25 percent
Minor components: 30 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Kimbrough**Setting**

Landform: Playa rims, plains
Down-slope shape: Convex, linear
Across-slope shape: Concave, linear
Parent material: Loamy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 3 inches: gravelly loam
Bw - 3 to 10 inches: loam
Bkkm1 - 10 to 16 inches: cemented material
Bkkm2 - 16 to 80 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 4 to 18 inches to petrocalcic
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.01 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 95 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Very low (about 1.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Ecological site: R077DY049TX - Very Shallow 12-17" PZ
Hydric soil rating: No

Custom Soil Resource Report

Description of Lea**Setting***Landform:* Plains*Down-slope shape:* Convex*Across-slope shape:* Linear*Parent material:* Calcareous, loamy eolian deposits from the blackwater draw formation of pleistocene age over indurated caliche of pliocene age**Typical profile***A - 0 to 10 inches:* loam*Bk - 10 to 18 inches:* loam*Bkk - 18 to 26 inches:* gravelly fine sandy loam*Bkkm - 26 to 80 inches:* cemented material**Properties and qualities***Slope:* 0 to 3 percent*Depth to restrictive feature:* 22 to 30 inches to petrocalcic*Drainage class:* Well drained*Runoff class:* High*Capacity of the most limiting layer to transmit water (Ksat):* Very low to moderately low (0.00 to 0.06 in/hr)*Depth to water table:* More than 80 inches*Frequency of flooding:* None*Frequency of ponding:* None*Calcium carbonate, maximum content:* 90 percent*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)*Sodium adsorption ratio, maximum:* 3.0*Available water supply, 0 to 60 inches:* Very low (about 2.9 inches)**Interpretive groups***Land capability classification (irrigated):* None specified*Land capability classification (nonirrigated):* 7s*Hydrologic Soil Group:* D*Ecological site:* R077DY047TX - Sandy Loam 12-17" PZ*Hydric soil rating:* No**Minor Components****Douro***Percent of map unit:* 12 percent*Landform:* Plains*Down-slope shape:* Linear*Across-slope shape:* Linear*Ecological site:* R077DY047TX - Sandy Loam 12-17" PZ*Other vegetative classification:* Unnamed (G077DH000TX)*Hydric soil rating:* No**Kenhill***Percent of map unit:* 12 percent*Landform:* Plains*Down-slope shape:* Linear*Across-slope shape:* Linear*Ecological site:* R077DY038TX - Clay Loam 12-17" PZ*Hydric soil rating:* No



APPENDIX III

C-141 FORMS

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

District IV
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

QUESTIONS

Action 53669

QUESTIONS

Operator: NAVAJO REFINING COMPANY, L.L.C. P.O. Box 159 Artesia, NM 88211	OGRID: 15694
	Action Number: 53669
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source	
<i>Please answer all of the questions in this group.</i>	
Site Name	North Vacuum Abo N. Unit
Date Release Discovered	09/01/2021
Surface Owner	State

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

Nature and Volume of Release	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Cause: Vehicular Accident Tank (Any) Crude Oil Released: 28 BBL Recovered: 152 BBL Lost: -124 BBL]
Produced Water Released (bbls) Details	Not answered.
Is the concentration of dissolved chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by 19.15.29.7(A) NMAC	Yes, major release.
Reasons why this would be considered a submission for a notification of a major release	<ul style="list-style-type: none"> Unauthorized release of a volume, excluding gases, of 25 barrels or more Reported amounts resulted in a negative lost value
If YES, was immediate notice given to the OCD, by whom	Yes. Rebecca Pons @ Talon
If YES, was immediate notice given to the OCD, to whom	OCD Artesia District; Mike Bratcher
If YES, was immediate notice given to the OCD, when	09/03/2021
If YES, was immediate notice given to the OCD, by what means (phone, email, etc.)	Not answered.
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

Initial Response	
<i>The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.</i>	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	Not answered.
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True

If all the actions described above have not been undertaken, explain why

Not answered.

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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
District IV
 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

ACKNOWLEDGMENTS

Action 53669

ACKNOWLEDGMENTS

Operator: NAVAJO REFINING COMPANY, L.L.C. P.O. Box 159 Artesia, NM 88211	OGRID: 15694
	Action Number: 53669
	Action Type: [NOTIFY] Notification Of Release (NOR)

ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	I acknowledge that I am authorized to submit notification of a releases on behalf of my operator.
<input checked="" type="checkbox"/>	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to NMAC 19.15.29.
<input checked="" type="checkbox"/>	I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and corrective action", pursuant to NMAC 19.15.29.
<input checked="" type="checkbox"/>	I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment.
<input checked="" type="checkbox"/>	I acknowledge the fact that the acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment.
<input checked="" type="checkbox"/>	I acknowledge the fact that, in addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

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

District IV
 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 53669

CONDITIONS

Operator: NAVAJO REFINING COMPANY, L.L.C. P.O. Box 159 Artesia, NM 88211	OGRID: 15694
	Action Number: 53669
	Action Type: [NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
Irdade	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	10/4/2021

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Incident ID	nAPP2127734737
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: HollyFrontier Refining & Marketing LLC	OGRID: 33479
Contact Name: Stan Grant	Contact Telephone: 575-513-2395
Contact email: Stanley.Grant@HollyFrontier.com	Incident # (assigned by OCD)
Contact mailing address: 1602 West Main, Artesia, NM 88210	

Location of Release Source

Latitude 32.8223381 _____ Longitude -103.532959 _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: North Vacuum Abo N. Unit	Site Type
Date Release Discovered: 9/1/2021	API# (if applicable) 30-025-23658

Unit Letter	Section	Township	Range	County
	2	17S	34E	LEA

Surface Owner: State Federal Tribal Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 28	Volume Recovered (bbls) 152
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Driver was distracted and drove off the one-way track highway. Driver tried to maneuver truck back onto highway, but because of the lip on the edge of the roadway, was not able to get the truck back on level ground. Truck hit an elevated lease road which caused driver to roll truck. Trailer split open and released approximately 28 barrels of oil on to the ground. A second truck was dispatched to the accident and recovered 152 barrels of oil from the over turned trailer. The 28 barrels that was released was on the ground and a contract company has been hired to start cleanup of the release.

Oil Conservation Division

Incident ID	nAPP2127734737
District RP	
Facility ID	
Application ID	

<p>Was this a major release as defined by 19.15.29.7(A) NMAC?</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>If YES, for what reason(s) does the responsible party consider this a major release? The release is over 25 barrels and classified as a major release.</p>
--	---

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
 Yes; Email from Rebecca Pons at Talon, LPE. To Mike Bratcher OCD, Artesia, District 1 & 2 on 9/3/2021.

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

<p><input checked="" type="checkbox"/> The source of the release has been stopped.</p> <p><input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.</p> <p><input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.</p> <p><input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.</p>

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Matthew Reinhart Title: VP Global Logistics

Signature:  Date: January 20, 2022 | 14:00 CST

email: matthew.reinhart@hollyfrontier.com Telephone: 214.871.3473

OCD Only

Received by: _____ Date: _____

Incident ID	nAPP2127734737
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	75 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

Characterization Report Checklist: *Each of the following items must be included in the report.*

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

Oil Conservation Division

Incident ID	nAPP2127734737
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Matthew Reinhart Title: VP Global Logistics

Signature:  Date: January 20, 2022 | 14:00 CST

email: matthew.reinhart@hollyfrontier.com Telephone: 214.871.3473

OCD Only

Received by: _____ Date: _____

Incident ID	nAPP2127734737
District RP	
Facility ID	
Application ID	

Remediation Plan

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

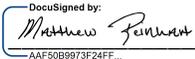
- Detailed description of proposed remediation technique
- Scaled sitemap with GPS coordinates showing delineation points
- Estimated volume of material to be remediated
- Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- Extents of contamination must be fully delineated.
- Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Matthew Reinhart Title: VP Global Logistics

Signature:  Date: January 20, 2022 | 14:00 CST

email: matthew.reinhart@hollyfrontier.com Telephone: 214.871.3473

OCD Only

Received by: _____ Date: _____

- Approved Approved with Attached Conditions of Approval Denied Deferral Approved

Signature: _____ Date: _____

Oil Conservation Division

Incident ID	nAPP2127734737
District RP	
Facility ID	
Application ID	

Closure

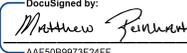
The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled 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 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Matthew Reinhart Title: VP Global Logistics

Signature:  Date: January 20, 2022 | 14:00 CST

email: matthew.reinhart@hollyfrontier.com Telephone: 214.871.3473

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____



APPENDIX IV

PHOTOGRAPHIC DOCUMENTATION



Closure Report
Holly Energy, North Vacuum Abo N. Unit
Transport Incident



Photograph No.1 Description:

Spill Area at accident (source)



Photograph No.2 Description:

Pasture Impact-Standing fluid



Photograph No.3 Description:

Excavation looking East



Photograph No.4 Description:

Excavation of spill path on right-of-way-exposed utility lines



Closure Report
Holly Energy, North Vacuum Abo N. Unit
Transport Incident



Photograph No.5 Description:

Aerial of backfilled area at source (riser)



Photograph No.6 Description:

Backfilled to grade on right-of-way



APPENDIX V

LABORATORY DATA



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

September 09, 2021

Rebecca Pons
Talon Artesia
408 West Texas Ave
Artesia, NM 88210
TEL:
FAX:

RE: Lowalp MP 82 Lo Walp

OrderNo.: 2109219

Dear Rebecca Pons:

Hall Environmental Analysis Laboratory received 7 sample(s) on 9/4/2021 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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a white background.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order **2109219**

Date Reported: **9/9/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-1 0-1'R

Project: Lowalp MP 82 Lo Walp

Collection Date: 9/3/2021 12:10:00 PM

Lab ID: 2109219-001

Matrix: SOIL

Received Date: 9/4/2021 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	680	60		mg/Kg	20	9/7/2021 10:00:48 AM	62404
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	12000	460		mg/Kg	50	9/7/2021 10:31:38 AM	62401
Motor Oil Range Organics (MRO)	5000	2300		mg/Kg	50	9/7/2021 10:31:38 AM	62401
Surr: DNOP	0	70-130	S	%Rec	50	9/7/2021 10:31:38 AM	62401
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	4400	240		mg/Kg	50	9/7/2021 3:09:49 PM	62400
Surr: BFB	453	70-130	S	%Rec	50	9/7/2021 3:09:49 PM	62400
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	20	1.2		mg/Kg	50	9/7/2021 3:09:49 PM	62400
Toluene	230	2.4		mg/Kg	50	9/7/2021 3:09:49 PM	62400
Ethylbenzene	230	2.4		mg/Kg	50	9/7/2021 3:09:49 PM	62400
Xylenes, Total	190	4.8		mg/Kg	50	9/7/2021 3:09:49 PM	62400
Surr: 4-Bromofluorobenzene	165	70-130	S	%Rec	50	9/7/2021 3:09:49 PM	62400

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2109219**

Date Reported: **9/9/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-2 0-1'

Project: Lowalp MP 82 Lo Walp

Collection Date: 9/3/2021 12:20:00 PM

Lab ID: 2109219-002

Matrix: SOIL

Received Date: 9/4/2021 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	61	59		mg/Kg	20	9/7/2021 10:13:12 AM	62404
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	14000	940		mg/Kg	100	9/4/2021 7:52:24 PM	62401
Motor Oil Range Organics (MRO)	6300	4700		mg/Kg	100	9/4/2021 7:52:24 PM	62401
Surr: DNOP	0	70-130	S	%Rec	100	9/4/2021 7:52:24 PM	62401
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	8900	240		mg/Kg	50	9/7/2021 3:33:40 PM	62400
Surr: BFB	476	70-130	S	%Rec	50	9/7/2021 3:33:40 PM	62400
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	350	12		mg/Kg	500	9/8/2021 10:01:27 AM	62400
Toluene	980	24		mg/Kg	500	9/8/2021 10:01:27 AM	62400
Ethylbenzene	530	24		mg/Kg	500	9/8/2021 10:01:27 AM	62400
Xylenes, Total	290	4.8		mg/Kg	50	9/7/2021 3:33:40 PM	62400
Surr: 4-Bromofluorobenzene	181	70-130	S	%Rec	50	9/7/2021 3:33:40 PM	62400

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2109219**

Date Reported: **9/9/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-2 2'

Project: Lowalp MP 82 Lo Walp

Collection Date: 9/3/2021 12:25:00 PM

Lab ID: 2109219-003

Matrix: SOIL

Received Date: 9/4/2021 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	130	60		mg/Kg	20	9/7/2021 10:25:37 AM	62404
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	14000	470		mg/Kg	50	9/7/2021 11:45:33 AM	62401
Motor Oil Range Organics (MRO)	5200	2300		mg/Kg	50	9/7/2021 11:45:33 AM	62401
Surr: DNOP	0	70-130	S	%Rec	50	9/7/2021 11:45:33 AM	62401
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	11000	240		mg/Kg	50	9/7/2021 3:57:28 PM	62400
Surr: BFB	533	70-130	S	%Rec	50	9/7/2021 3:57:28 PM	62400
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	430	12		mg/Kg	500	9/8/2021 10:24:51 AM	62400
Toluene	1200	24		mg/Kg	500	9/8/2021 10:24:51 AM	62400
Ethylbenzene	590	24		mg/Kg	500	9/8/2021 10:24:51 AM	62400
Xylenes, Total	340	4.8		mg/Kg	50	9/7/2021 3:57:28 PM	62400
Surr: 4-Bromofluorobenzene	196	70-130	S	%Rec	50	9/7/2021 3:57:28 PM	62400

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2109219**

Date Reported: **9/9/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-2 2.5'R

Project: Lowalp MP 82 Lo Walp

Collection Date: 9/3/2021 12:30:00 PM

Lab ID: 2109219-004

Matrix: SOIL

Received Date: 9/4/2021 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	180	60		mg/Kg	20	9/7/2021 10:38:02 AM	62404
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	15000	480		mg/Kg	50	9/7/2021 10:56:06 AM	62401
Motor Oil Range Organics (MRO)	5200	2400		mg/Kg	50	9/7/2021 10:56:06 AM	62401
Surr: DNOP	0	70-130	S	%Rec	50	9/7/2021 10:56:06 AM	62401
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	11000	240		mg/Kg	50	9/7/2021 4:21:25 PM	62400
Surr: BFB	552	70-130	S	%Rec	50	9/7/2021 4:21:25 PM	62400
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	380	12		mg/Kg	500	9/8/2021 10:48:17 AM	62400
Toluene	1100	24		mg/Kg	500	9/8/2021 10:48:17 AM	62400
Ethylbenzene	580	24		mg/Kg	500	9/8/2021 10:48:17 AM	62400
Xylenes, Total	360	4.9		mg/Kg	50	9/7/2021 4:21:25 PM	62400
Surr: 4-Bromofluorobenzene	198	70-130	S	%Rec	50	9/7/2021 4:21:25 PM	62400

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2109219**

Date Reported: **9/9/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-3 0-1'

Project: Lowalp MP 82 Lo Walp

Collection Date: 9/3/2021 12:35:00 PM

Lab ID: 2109219-005

Matrix: SOIL

Received Date: 9/4/2021 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	9/7/2021 11:15:14 AM	62404
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	13000	470		mg/Kg	50	9/7/2021 11:20:45 AM	62401
Motor Oil Range Organics (MRO)	4400	2300		mg/Kg	50	9/7/2021 11:20:45 AM	62401
Surr: DNOP	0	70-130	S	%Rec	50	9/7/2021 11:20:45 AM	62401
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	13000	250		mg/Kg	50	9/7/2021 4:45:14 PM	62400
Surr: BFB	613	70-130	S	%Rec	50	9/7/2021 4:45:14 PM	62400
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	470	12		mg/Kg	500	9/8/2021 11:11:50 AM	62400
Toluene	1300	25		mg/Kg	500	9/8/2021 11:11:50 AM	62400
Ethylbenzene	660	25		mg/Kg	500	9/8/2021 11:11:50 AM	62400
Xylenes, Total	420	5.0		mg/Kg	50	9/7/2021 4:45:14 PM	62400
Surr: 4-Bromofluorobenzene	213	70-130	S	%Rec	50	9/7/2021 4:45:14 PM	62400

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2109219**

Date Reported: **9/9/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-3 2'R

Project: Lowalp MP 82 Lo Walp

Collection Date: 9/3/2021 12:40:00 PM

Lab ID: 2109219-006

Matrix: SOIL

Received Date: 9/4/2021 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	9/7/2021 11:27:38 AM	62404
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	2000	97		mg/Kg	10	9/4/2021 9:34:35 PM	62401
Motor Oil Range Organics (MRO)	700	480		mg/Kg	10	9/4/2021 9:34:35 PM	62401
Surr: DNOP	0	70-130	S	%Rec	10	9/4/2021 9:34:35 PM	62401
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	620	24		mg/Kg	5	9/7/2021 5:09:08 PM	62400
Surr: BFB	636	70-130	S	%Rec	5	9/7/2021 5:09:08 PM	62400
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	2.9	0.12		mg/Kg	5	9/7/2021 5:09:08 PM	62400
Toluene	24	2.4		mg/Kg	50	9/8/2021 11:35:18 AM	62400
Ethylbenzene	27	2.4		mg/Kg	50	9/8/2021 11:35:18 AM	62400
Xylenes, Total	26	0.48		mg/Kg	5	9/7/2021 5:09:08 PM	62400
Surr: 4-Bromofluorobenzene	198	70-130	S	%Rec	5	9/7/2021 5:09:08 PM	62400

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2109219**

Date Reported: **9/9/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-4 0-1'R

Project: Lowalp MP 82 Lo Walp

Collection Date: 9/3/2021 12:45:00 PM

Lab ID: 2109219-007

Matrix: SOIL

Received Date: 9/4/2021 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	9/7/2021 12:04:52 PM	62404
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	23000	950		mg/Kg	100	9/4/2021 10:00:04 PM	62401
Motor Oil Range Organics (MRO)	7700	4700		mg/Kg	100	9/4/2021 10:00:04 PM	62401
Surr: DNOP	0	70-130	S	%Rec	100	9/4/2021 10:00:04 PM	62401
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	15000	250		mg/Kg	50	9/7/2021 5:33:05 PM	62400
Surr: BFB	700	70-130	S	%Rec	50	9/7/2021 5:33:05 PM	62400
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	580	12		mg/Kg	500	9/8/2021 11:58:42 AM	62400
Toluene	1500	25		mg/Kg	500	9/8/2021 11:58:42 AM	62400
Ethylbenzene	780	25		mg/Kg	500	9/8/2021 11:58:42 AM	62400
Xylenes, Total	500	5.0		mg/Kg	50	9/7/2021 5:33:05 PM	62400
Surr: 4-Bromofluorobenzene	234	70-130	S	%Rec	50	9/7/2021 5:33:05 PM	62400

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2109219

09-Sep-21

Client: Talon Artesia
Project: Lowalp MP 82 Lo Walp

Sample ID: MB-62404	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 62404	RunNo: 81061								
Prep Date: 9/7/2021	Analysis Date: 9/7/2021	SeqNo: 2862328	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-62404	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 62404	RunNo: 81061								
Prep Date: 9/7/2021	Analysis Date: 9/7/2021	SeqNo: 2862330	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.0	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2109219

09-Sep-21

Client: Talon Artesia
Project: Lowalp MP 82 Lo Walp

Sample ID: MB-62401	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 62401	RunNo: 81065								
Prep Date: 9/4/2021	Analysis Date: 9/4/2021	SeqNo: 2861505	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.0		10.00		90.0	70	130			

Sample ID: LCS-62401	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 62401	RunNo: 81065								
Prep Date: 9/4/2021	Analysis Date: 9/4/2021	SeqNo: 2861506	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	88.6	68.9	135			
Surr: DNOP	4.5		5.000		90.8	70	130			

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 Quantitative 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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2109219

09-Sep-21

Client: Talon Artesia
Project: Lowalp MP 82 Lo Walp

Sample ID: mb-62400	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 62400	RunNo: 81085								
Prep Date: 9/4/2021	Analysis Date: 9/7/2021	SeqNo: 2862286	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		104	70	130			

Sample ID: ics-62400	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 62400	RunNo: 81085								
Prep Date: 9/4/2021	Analysis Date: 9/7/2021	SeqNo: 2862287	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	106	78.6	131			
Surr: BFB	1200		1000		119	70	130			

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 Quantitative 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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2109219

09-Sep-21

Client: Talon Artesia
Project: Lowalp MP 82 Lo Walp

Sample ID: mb-62400	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 62400	RunNo: 81085								
Prep Date: 9/4/2021	Analysis Date: 9/7/2021	SeqNo: 2862418	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.96		1.000		96.0	70	130			

Sample ID: LCS-62400	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 62400	RunNo: 81085								
Prep Date: 9/4/2021	Analysis Date: 9/7/2021	SeqNo: 2862419	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	92.7	80	120			
Toluene	0.93	0.050	1.000	0	93.1	80	120			
Ethylbenzene	0.92	0.050	1.000	0	92.3	80	120			
Xylenes, Total	2.8	0.10	3.000	0	91.9	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	70	130			

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 Quantitative 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



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

Sample Log-In Check List

Client Name: Talon Artesia Work Order Number: 2109219 RcptNo: 1

Received By: Juan Rojas 9/4/2021 8:30:00 AM
Completed By: Juan Rojas 9/4/2021 9:26:07 AM
Reviewed By: Cme 9/4/21

Chain of Custody

- 1. Is Chain of Custody complete? Yes [checked] No [] Not Present []
2. How was the sample delivered? Courier

Log In

- 3. Was an attempt made to cool the samples? Yes [checked] No [] NA []
4. Were all samples received at a temperature of >0° C to 6.0°C Yes [checked] No [] NA []
5. Sample(s) in proper container(s)? Yes [checked] No []
6. Sufficient sample volume for indicated test(s)? Yes [checked] No []
7. Are samples (except VOA and ONG) properly preserved? Yes [checked] No []
8. Was preservative added to bottles? Yes [] No [checked] NA []
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes [] No [] NA [checked]
10. Were any sample containers received broken? Yes [] No [checked]
11. Does paperwork match bottle labels? Yes [checked] No []
12. Are matrices correctly identified on Chain of Custody? Yes [checked] No []
13. Is it clear what analyses were requested? Yes [checked] No []
14. Were all holding times able to be met? Yes [checked] No []

of preserved bottles checked for pH: (<2 or >12 unless noted) Adjusted? Checked by: JN 9/4/21

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [] No [] NA [checked]

Person Notified: Date: By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions:

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Rows 1-3 show data for coolers 1, 2, and 3.

Chain-of-Custody Record

Client: Talon LPE
 Project Name: On File
 Mailing Address: ---
 Phone #: ---
 Email or Fax#: ---

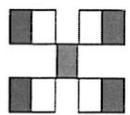
QA/QC Package:
 Standard Level 4 (Full Validation)
 Accreditation: AZ Compliance
 NELAC Other
 EDD (Type) _____

Turn-Around Time:
 Standard Rush 48 hr
 Project Name:
LOWalp MP 82 (Lo Walp)
 Project #:
700056.001.01

Project Manager:
R. Pons
 Sampler: J. Carner
 On Ice: Yes No
 # of Coolers: 3
 Cooler Temp (including CF): see Remarks (°C)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
9-3-21	12:10	Soil	S-1 0-1'R	Glass Jar	Ice/cool	2109219
	12:20		S-2 0-1'			-007
	12:25		S-2 2'			-003
	12:30		S-2 2.5'R			-004
	12:35		S-3 0-1'			-005
	12:40		S-3 1'R			-006
	12:45		S-4 0-1'R			-007

Relinquished by: [Signature] Date: 9/3/21 Time: 1510
 Relinquished by: [Signature] Date: 9/4/21 Time: 8:30



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com
 4901 Hawkins NE - Albuquerque, NM 87109
 Tel. 505-345-3975 Fax 505-345-4107

Analysis Request	
BTEX / MTBE / TMBs (8021)	X
TPH18015D (GRO / DRO / MRO)	X
8081 Pesticides/8082 PCBs	
EDB (Method 504.1)	
PAHs by 8310 or 8270SIMS	
RCRA 8 Metals	
Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	X
8260 (VOA)	
8270 (Semi-VOA)	
Total Coliform (Present/Absent)	

Remarks:
 0.1-0.2 = 0
 0.6-0.7 = 0.4
 0.3-0.2 = 0.1



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

September 29, 2021

Rebecca Pons
Talon Artesia
408 West Texas Ave
Artesia, NM 88210
TEL:
FAX:

RE: LOWalp MP82

OrderNo.: 2109B78

Dear Rebecca Pons:

Hall Environmental Analysis Laboratory received 1 sample(s) on 9/22/2021 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,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written in a cursive style.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order **2109B78**

Date Reported: **9/29/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: TT-1 10'

Project: LOWalp MP82

Collection Date: 9/20/2021 3:00:00 PM

Lab ID: 2109B78-001

Matrix: SOIL

Received Date: 9/22/2021 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	9/27/2021 9:09:21 AM	62839
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	27	9.7		mg/Kg	1	9/27/2021 7:30:32 PM	62781
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/27/2021 7:30:32 PM	62781
Surr: DNOP	84.0	70-130		%Rec	1	9/27/2021 7:30:32 PM	62781
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/23/2021 8:58:23 PM	62766
Surr: BFB	103	70-130		%Rec	1	9/23/2021 8:58:23 PM	62766
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	9/23/2021 8:58:23 PM	62766
Toluene	ND	0.049		mg/Kg	1	9/23/2021 8:58:23 PM	62766
Ethylbenzene	ND	0.049		mg/Kg	1	9/23/2021 8:58:23 PM	62766
Xylenes, Total	ND	0.097		mg/Kg	1	9/23/2021 8:58:23 PM	62766
Surr: 4-Bromofluorobenzene	90.7	70-130		%Rec	1	9/23/2021 8:58:23 PM	62766

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

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2109B78

29-Sep-21

Client: Talon Artesia
Project: LOWalp MP82

Sample ID: MB-62839	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 62839	RunNo: 81597								
Prep Date: 9/27/2021	Analysis Date: 9/27/2021	SeqNo: 2883462	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-62839	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 62839	RunNo: 81597								
Prep Date: 9/27/2021	Analysis Date: 9/27/2021	SeqNo: 2883463	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.5	90	110			

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| PQL Practical Quantitative Limit | RL Reporting Limit |
| S % Recovery outside of range due to dilution or matrix | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2109B78

29-Sep-21

Client: Talon Artesia
Project: LOWalp MP82

Sample ID: LCS-62781	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 62781	RunNo: 81579								
Prep Date: 9/23/2021	Analysis Date: 9/25/2021	SeqNo: 2883289	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	97.5	68.9	135			
Surr: DNOP	4.9		5.000		98.3	70	130			

Sample ID: LCS-62799	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 62799	RunNo: 81579								
Prep Date: 9/23/2021	Analysis Date: 9/24/2021	SeqNo: 2883290	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.6		5.000		91.3	70	130			

Sample ID: MB-62781	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 62781	RunNo: 81579								
Prep Date: 9/23/2021	Analysis Date: 9/25/2021	SeqNo: 2883292	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		103	70	130			

Sample ID: MB-62799	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 62799	RunNo: 81579								
Prep Date: 9/23/2021	Analysis Date: 9/24/2021	SeqNo: 2883293	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		100	70	130			

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 Quantitative 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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2109B78

29-Sep-21

Client: Talon Artesia
Project: LOWalp MP82

Sample ID: mb-62766	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 62766	RunNo: 81527								
Prep Date: 9/22/2021	Analysis Date: 9/23/2021	SeqNo: 2880290	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		102	70	130			

Sample ID: lcs-62766	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 62766	RunNo: 81527								
Prep Date: 9/22/2021	Analysis Date: 9/23/2021	SeqNo: 2880291	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	5.0	25.00	0	118	78.6	131			
Surr: BFB	1100		1000		115	70	130			

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 Quantitative 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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2109B78

29-Sep-21

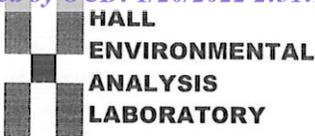
Client: Talon Artesia
Project: LOWalp MP82

Sample ID: mb-62766	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 62766	RunNo: 81527								
Prep Date: 9/22/2021	Analysis Date: 9/23/2021	SeqNo: 2880326	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.90		1.000		89.5	70	130			

Sample ID: LCS-62766	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 62766	RunNo: 81527								
Prep Date: 9/22/2021	Analysis Date: 9/23/2021	SeqNo: 2880327	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	94.6	80	120			
Toluene	0.96	0.050	1.000	0	96.2	80	120			
Ethylbenzene	0.97	0.050	1.000	0	96.7	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.4	80	120			
Surr: 4-Bromofluorobenzene	0.94		1.000		94.3	70	130			

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 Quantitative 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



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

Sample Log-In Check List

Client Name: Talon Artesia Work Order Number: 2109B78 RcptNo: 1

Received By: Cheyenne Cason 9/22/2021 7:10:00 AM

Completed By: Sean Livingston 9/22/2021 8:58:04 AM

Reviewed By: [Signature] 9/22/21

[Signatures]

Chain of Custody

- 1. Is Chain of Custody complete? Yes [checked] No [] Not Present []
2. How was the sample delivered? Courier

Log In

- 3. Was an attempt made to cool the samples? Yes [checked] No [] NA []
4. Were all samples received at a temperature of >0° C to 6.0° C Yes [checked] No [] NA []
5. Sample(s) in proper container(s)? Yes [checked] No []
6. Sufficient sample volume for indicated test(s)? Yes [checked] No []
7. Are samples (except VOA and ONG) properly preserved? Yes [checked] No []
8. Was preservative added to bottles? Yes [] No [checked] NA []
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes [] No [] NA [checked]
10. Were any sample containers received broken? Yes [] No [checked]
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes [checked] No []
12. Are matrices correctly identified on Chain of Custody? Yes [checked] No []
13. Is it clear what analyses were requested? Yes [checked] No []
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes [checked] No []

of preserved bottles checked for pH: (<2 or >12 unless noted) Adjusted? Checked by: JR 9/22/21

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [] No [] NA [checked]

Person Notified: [] Date: []
By Whom: [] Via: [] eMail [] Phone [] Fax [] In Person []
Regarding: []
Client Instructions: []

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 1, 1.1, Good, [], [], []



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

October 28, 2021

Rebecca Pons
Talon Artesia
408 West Texas Ave
Artesia, NM 88210
TEL: (575) 441-0980
FAX:

RE: LOWalpMP82 LOWalp

OrderNo.: 2110A63

Dear Rebecca Pons:

Hall Environmental Analysis Laboratory received 18 sample(s) on 10/22/2021 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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a white background.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order **2110A63**

Date Reported: **10/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-1 10'

Project: LOWalpMP82 LOWalp

Collection Date: 10/21/2021 11:40:00 AM

Lab ID: 2110A63-001

Matrix: SOIL

Received Date: 10/22/2021 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	10/26/2021 4:17:00 AM	63553
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	43	9.5		mg/Kg	1	10/25/2021 7:05:40 PM	63516
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/25/2021 7:05:40 PM	63516
Surr: DNOP	96.9	70-130		%Rec	1	10/25/2021 7:05:40 PM	63516
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	10/26/2021 3:43:38 AM	63508
Surr: BFB	101	70-130		%Rec	5	10/26/2021 3:43:38 AM	63508
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	10/26/2021 3:43:38 AM	63508
Toluene	ND	0.24		mg/Kg	5	10/26/2021 3:43:38 AM	63508
Ethylbenzene	ND	0.24		mg/Kg	5	10/26/2021 3:43:38 AM	63508
Xylenes, Total	ND	0.47		mg/Kg	5	10/26/2021 3:43:38 AM	63508
Surr: 4-Bromofluorobenzene	83.2	70-130		%Rec	5	10/26/2021 3:43:38 AM	63508

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2110A63**

Date Reported: **10/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-2 10'

Project: LOWalpMP82 LOWalp

Collection Date: 10/21/2021 11:43:00 AM

Lab ID: 2110A63-002

Matrix: SOIL

Received Date: 10/22/2021 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	10/26/2021 4:29:24 AM	63553
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	44	9.9		mg/Kg	1	10/25/2021 7:16:35 PM	63516
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/25/2021 7:16:35 PM	63516
Surr: DNOP	96.2	70-130		%Rec	1	10/25/2021 7:16:35 PM	63516
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	10/26/2021 8:55:22 AM	63508
Surr: BFB	103	70-130		%Rec	5	10/26/2021 8:55:22 AM	63508
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	10/26/2021 8:55:22 AM	63508
Toluene	ND	0.24		mg/Kg	5	10/26/2021 8:55:22 AM	63508
Ethylbenzene	ND	0.24		mg/Kg	5	10/26/2021 8:55:22 AM	63508
Xylenes, Total	ND	0.49		mg/Kg	5	10/26/2021 8:55:22 AM	63508
Surr: 4-Bromofluorobenzene	85.0	70-130		%Rec	5	10/26/2021 8:55:22 AM	63508

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2110A63**

Date Reported: **10/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-3 8'

Project: LOWalpMP82 LOWalp

Collection Date: 10/21/2021 11:46:00 AM

Lab ID: 2110A63-003

Matrix: SOIL

Received Date: 10/22/2021 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	10/26/2021 1:48:01 PM	63562
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	40	9.8		mg/Kg	1	10/25/2021 7:27:30 PM	63516
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/25/2021 7:27:30 PM	63516
Surr: DNOP	100	70-130		%Rec	1	10/25/2021 7:27:30 PM	63516
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	10/26/2021 9:18:57 AM	63508
Surr: BFB	102	70-130		%Rec	5	10/26/2021 9:18:57 AM	63508
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	10/26/2021 9:18:57 AM	63508
Toluene	ND	0.24		mg/Kg	5	10/26/2021 9:18:57 AM	63508
Ethylbenzene	ND	0.24		mg/Kg	5	10/26/2021 9:18:57 AM	63508
Xylenes, Total	ND	0.49		mg/Kg	5	10/26/2021 9:18:57 AM	63508
Surr: 4-Bromofluorobenzene	83.7	70-130		%Rec	5	10/26/2021 9:18:57 AM	63508

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2110A63**

Date Reported: **10/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-4 7-8'

Project: LOWalpMP82 LOWalp

Collection Date: 10/21/2021 11:49:00 AM

Lab ID: 2110A63-004

Matrix: SOIL

Received Date: 10/22/2021 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	10/26/2021 2:25:14 PM	63562
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	45	9.8		mg/Kg	1	10/25/2021 7:38:25 PM	63516
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/25/2021 7:38:25 PM	63516
Surr: DNOP	93.0	70-130		%Rec	1	10/25/2021 7:38:25 PM	63516
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	10/26/2021 8:39:14 PM	63508
Surr: BFB	106	70-130		%Rec	5	10/26/2021 8:39:14 PM	63508
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	10/26/2021 8:39:14 PM	63508
Toluene	ND	0.24		mg/Kg	5	10/26/2021 8:39:14 PM	63508
Ethylbenzene	ND	0.24		mg/Kg	5	10/26/2021 8:39:14 PM	63508
Xylenes, Total	ND	0.47		mg/Kg	5	10/26/2021 8:39:14 PM	63508
Surr: 4-Bromofluorobenzene	87.0	70-130		%Rec	5	10/26/2021 8:39:14 PM	63508

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2110A63**

Date Reported: **10/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-5 6'

Project: LOWalpMP82 LOWalp

Collection Date: 10/21/2021 11:52:00 AM

Lab ID: 2110A63-005

Matrix: SOIL

Received Date: 10/22/2021 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	10/26/2021 2:37:39 PM	63562
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	46	10		mg/Kg	1	10/25/2021 7:49:21 PM	63516
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/25/2021 7:49:21 PM	63516
Surr: DNOP	90.8	70-130		%Rec	1	10/25/2021 7:49:21 PM	63516
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	10/26/2021 9:02:39 PM	63508
Surr: BFB	107	70-130		%Rec	5	10/26/2021 9:02:39 PM	63508
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	10/26/2021 9:02:39 PM	63508
Toluene	ND	0.24		mg/Kg	5	10/26/2021 9:02:39 PM	63508
Ethylbenzene	ND	0.24		mg/Kg	5	10/26/2021 9:02:39 PM	63508
Xylenes, Total	ND	0.49		mg/Kg	5	10/26/2021 9:02:39 PM	63508
Surr: 4-Bromofluorobenzene	89.1	70-130		%Rec	5	10/26/2021 9:02:39 PM	63508

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2110A63**

Date Reported: **10/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-6 6'

Project: LOWalpMP82 LOWalp

Collection Date: 10/21/2021 11:55:00 AM

Lab ID: 2110A63-006

Matrix: SOIL

Received Date: 10/22/2021 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	59		mg/Kg	20	10/26/2021 2:50:04 PM	63562
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	47	9.6		mg/Kg	1	10/25/2021 8:00:15 PM	63516
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/25/2021 8:00:15 PM	63516
Surr: DNOP	90.9	70-130		%Rec	1	10/25/2021 8:00:15 PM	63516
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	23		mg/Kg	5	10/26/2021 9:26:03 PM	63508
Surr: BFB	99.6	70-130		%Rec	5	10/26/2021 9:26:03 PM	63508
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	10/26/2021 9:26:03 PM	63508
Toluene	ND	0.23		mg/Kg	5	10/26/2021 9:26:03 PM	63508
Ethylbenzene	ND	0.23		mg/Kg	5	10/26/2021 9:26:03 PM	63508
Xylenes, Total	ND	0.47		mg/Kg	5	10/26/2021 9:26:03 PM	63508
Surr: 4-Bromofluorobenzene	82.1	70-130		%Rec	5	10/26/2021 9:26:03 PM	63508

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2110A63**

Date Reported: **10/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-7 6'

Project: LOWalpMP82 LOWalp

Collection Date: 10/21/2021 11:58:00 AM

Lab ID: 2110A63-007

Matrix: SOIL

Received Date: 10/22/2021 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	10/26/2021 3:52:07 PM	63562
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	50	9.9		mg/Kg	1	10/25/2021 8:11:07 PM	63516
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/25/2021 8:11:07 PM	63516
Surr: DNOP	95.0	70-130		%Rec	1	10/25/2021 8:11:07 PM	63516
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	10/26/2021 9:49:32 PM	63508
Surr: BFB	107	70-130		%Rec	5	10/26/2021 9:49:32 PM	63508
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	10/26/2021 9:49:32 PM	63508
Toluene	ND	0.25		mg/Kg	5	10/26/2021 9:49:32 PM	63508
Ethylbenzene	ND	0.25		mg/Kg	5	10/26/2021 9:49:32 PM	63508
Xylenes, Total	ND	0.50		mg/Kg	5	10/26/2021 9:49:32 PM	63508
Surr: 4-Bromofluorobenzene	89.2	70-130		%Rec	5	10/26/2021 9:49:32 PM	63508

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2110A63**

Date Reported: **10/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-8 6'

Project: LOWalpMP82 LOWalp

Collection Date: 10/21/2021 12:01:00 PM

Lab ID: 2110A63-008

Matrix: SOIL

Received Date: 10/22/2021 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	10/26/2021 4:04:32 PM	63562
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	49	9.3		mg/Kg	1	10/25/2021 8:22:01 PM	63516
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	10/25/2021 8:22:01 PM	63516
Surr: DNOP	91.4	70-130		%Rec	1	10/25/2021 8:22:01 PM	63516
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	10/26/2021 10:12:56 PM	63508
Surr: BFB	105	70-130		%Rec	5	10/26/2021 10:12:56 PM	63508
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	10/26/2021 10:12:56 PM	63508
Toluene	ND	0.25		mg/Kg	5	10/26/2021 10:12:56 PM	63508
Ethylbenzene	ND	0.25		mg/Kg	5	10/26/2021 10:12:56 PM	63508
Xylenes, Total	ND	0.49		mg/Kg	5	10/26/2021 10:12:56 PM	63508
Surr: 4-Bromofluorobenzene	87.9	70-130		%Rec	5	10/26/2021 10:12:56 PM	63508

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2110A63**

Date Reported: **10/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: W.SW 10'

Project: LOWalpMP82 LOWalp

Collection Date: 10/21/2021 12:10:00 PM

Lab ID: 2110A63-009

Matrix: SOIL

Received Date: 10/22/2021 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	10/26/2021 4:16:56 PM	63562
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	57	9.8		mg/Kg	1	10/25/2021 8:32:49 PM	63516
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/25/2021 8:32:49 PM	63516
Surr: DNOP	97.7	70-130		%Rec	1	10/25/2021 8:32:49 PM	63516
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	10/26/2021 10:36:19 PM	63508
Surr: BFB	106	70-130		%Rec	5	10/26/2021 10:36:19 PM	63508
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	10/26/2021 10:36:19 PM	63508
Toluene	ND	0.24		mg/Kg	5	10/26/2021 10:36:19 PM	63508
Ethylbenzene	ND	0.24		mg/Kg	5	10/26/2021 10:36:19 PM	63508
Xylenes, Total	ND	0.48		mg/Kg	5	10/26/2021 10:36:19 PM	63508
Surr: 4-Bromofluorobenzene	89.1	70-130		%Rec	5	10/26/2021 10:36:19 PM	63508

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2110A63**

Date Reported: **10/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: N.SW-1 10'

Project: LOWalpMP82 LOWalp

Collection Date: 10/21/2021 12:13:00 PM

Lab ID: 2110A63-010

Matrix: SOIL

Received Date: 10/22/2021 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	10/26/2021 4:29:20 PM	63562
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	46	9.2		mg/Kg	1	10/25/2021 8:43:40 PM	63516
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	10/25/2021 8:43:40 PM	63516
Surr: DNOP	98.0	70-130		%Rec	1	10/25/2021 8:43:40 PM	63516
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	10/26/2021 11:46:26 PM	63508
Surr: BFB	104	70-130		%Rec	5	10/26/2021 11:46:26 PM	63508
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	10/26/2021 11:46:26 PM	63508
Toluene	ND	0.24		mg/Kg	5	10/26/2021 11:46:26 PM	63508
Ethylbenzene	ND	0.24		mg/Kg	5	10/26/2021 11:46:26 PM	63508
Xylenes, Total	ND	0.48		mg/Kg	5	10/26/2021 11:46:26 PM	63508
Surr: 4-Bromofluorobenzene	86.3	70-130		%Rec	5	10/26/2021 11:46:26 PM	63508

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2110A63**

Date Reported: **10/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: N.SW-2 7-8'

Project: LOWalpMP82 LOWalp

Collection Date: 10/21/2021 12:16:00 PM

Lab ID: 2110A63-011

Matrix: SOIL

Received Date: 10/22/2021 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	10/26/2021 4:41:44 PM	63562
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	49	10		mg/Kg	1	10/25/2021 8:54:28 PM	63516
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/25/2021 8:54:28 PM	63516
Surr: DNOP	100	70-130		%Rec	1	10/25/2021 8:54:28 PM	63516
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	10/27/2021 12:09:44 AM	63508
Surr: BFB	103	70-130		%Rec	5	10/27/2021 12:09:44 AM	63508
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	10/27/2021 12:09:44 AM	63508
Toluene	ND	0.25		mg/Kg	5	10/27/2021 12:09:44 AM	63508
Ethylbenzene	ND	0.25		mg/Kg	5	10/27/2021 12:09:44 AM	63508
Xylenes, Total	ND	0.49		mg/Kg	5	10/27/2021 12:09:44 AM	63508
Surr: 4-Bromofluorobenzene	86.0	70-130		%Rec	5	10/27/2021 12:09:44 AM	63508

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2110A63**

Date Reported: **10/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: N.SW-3 6'

Project: LOWalpMP82 LOWalp

Collection Date: 10/21/2021 12:19:00 PM

Lab ID: 2110A63-012

Matrix: SOIL

Received Date: 10/22/2021 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	59		mg/Kg	20	10/26/2021 2:20:28 PM	63563
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	41	9.7		mg/Kg	1	10/25/2021 9:05:23 PM	63516
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/25/2021 9:05:23 PM	63516
Surr: DNOP	98.2	70-130		%Rec	1	10/25/2021 9:05:23 PM	63516
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	23		mg/Kg	5	10/27/2021 12:33:00 AM	63508
Surr: BFB	105	70-130		%Rec	5	10/27/2021 12:33:00 AM	63508
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	10/27/2021 12:33:00 AM	63508
Toluene	ND	0.23		mg/Kg	5	10/27/2021 12:33:00 AM	63508
Ethylbenzene	ND	0.23		mg/Kg	5	10/27/2021 12:33:00 AM	63508
Xylenes, Total	ND	0.47		mg/Kg	5	10/27/2021 12:33:00 AM	63508
Surr: 4-Bromofluorobenzene	87.6	70-130		%Rec	5	10/27/2021 12:33:00 AM	63508

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2110A63**

Date Reported: **10/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: N.SW-4 6'

Project: LOWalpMP82 LOWalp

Collection Date: 10/21/2021 12:22:00 PM

Lab ID: 2110A63-013

Matrix: SOIL

Received Date: 10/22/2021 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	60		mg/Kg	20	10/26/2021 2:57:32 PM	63563
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	54	9.8		mg/Kg	1	10/25/2021 9:16:15 PM	63516
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/25/2021 9:16:15 PM	63516
Surr: DNOP	84.8	70-130		%Rec	1	10/25/2021 9:16:15 PM	63516
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	10/27/2021 12:56:17 AM	63508
Surr: BFB	104	70-130		%Rec	5	10/27/2021 12:56:17 AM	63508
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	10/27/2021 12:56:17 AM	63508
Toluene	ND	0.24		mg/Kg	5	10/27/2021 12:56:17 AM	63508
Ethylbenzene	ND	0.24		mg/Kg	5	10/27/2021 12:56:17 AM	63508
Xylenes, Total	ND	0.49		mg/Kg	5	10/27/2021 12:56:17 AM	63508
Surr: 4-Bromofluorobenzene	87.0	70-130		%Rec	5	10/27/2021 12:56:17 AM	63508

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2110A63**

Date Reported: **10/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: E.SW 6'

Project: LOWalpMP82 LOWalp

Collection Date: 10/21/2021 12:25:00 PM

Lab ID: 2110A63-014

Matrix: SOIL

Received Date: 10/22/2021 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	60		mg/Kg	20	10/26/2021 3:09:54 PM	63563
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	52	9.7		mg/Kg	1	10/25/2021 9:27:06 PM	63516
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/25/2021 9:27:06 PM	63516
Surr: DNOP	79.8	70-130		%Rec	1	10/25/2021 9:27:06 PM	63516
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	10/27/2021 1:19:31 AM	63508
Surr: BFB	107	70-130		%Rec	5	10/27/2021 1:19:31 AM	63508
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	10/27/2021 1:19:31 AM	63508
Toluene	ND	0.24		mg/Kg	5	10/27/2021 1:19:31 AM	63508
Ethylbenzene	ND	0.24		mg/Kg	5	10/27/2021 1:19:31 AM	63508
Xylenes, Total	ND	0.49		mg/Kg	5	10/27/2021 1:19:31 AM	63508
Surr: 4-Bromofluorobenzene	89.6	70-130		%Rec	5	10/27/2021 1:19:31 AM	63508

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2110A63**

Date Reported: **10/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S.SW-1 10'

Project: LOWalpMP82 LOWalp

Collection Date: 10/21/2021 12:28:00 PM

Lab ID: 2110A63-015

Matrix: SOIL

Received Date: 10/22/2021 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	60		mg/Kg	20	10/26/2021 3:22:15 PM	63563
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	62	9.9		mg/Kg	1	10/25/2021 9:37:56 PM	63516
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/25/2021 9:37:56 PM	63516
Surr: DNOP	92.3	70-130		%Rec	1	10/25/2021 9:37:56 PM	63516
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	23		mg/Kg	5	10/27/2021 7:58:54 AM	63508
Surr: BFB	98.9	70-130		%Rec	5	10/27/2021 7:58:54 AM	63508
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	10/27/2021 7:58:54 AM	63508
Toluene	ND	0.23		mg/Kg	5	10/27/2021 7:58:54 AM	63508
Ethylbenzene	ND	0.23		mg/Kg	5	10/27/2021 7:58:54 AM	63508
Xylenes, Total	ND	0.46		mg/Kg	5	10/27/2021 7:58:54 AM	63508
Surr: 4-Bromofluorobenzene	83.9	70-130		%Rec	5	10/27/2021 7:58:54 AM	63508

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2110A63**

Date Reported: **10/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S.SW-2 7-8'

Project: LOWalpMP82 LOWalp

Collection Date: 10/21/2021 12:31:00 PM

Lab ID: 2110A63-016

Matrix: SOIL

Received Date: 10/22/2021 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	60		mg/Kg	20	10/26/2021 3:34:36 PM	63563
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	40	9.6		mg/Kg	1	10/25/2021 9:48:46 PM	63516
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/25/2021 9:48:46 PM	63516
Surr: DNOP	79.9	70-130		%Rec	1	10/25/2021 9:48:46 PM	63516
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	10/27/2021 8:21:59 AM	63508
Surr: BFB	95.1	70-130		%Rec	5	10/27/2021 8:21:59 AM	63508
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	10/27/2021 8:21:59 AM	63508
Toluene	ND	0.24		mg/Kg	5	10/27/2021 8:21:59 AM	63508
Ethylbenzene	ND	0.24		mg/Kg	5	10/27/2021 8:21:59 AM	63508
Xylenes, Total	ND	0.48		mg/Kg	5	10/27/2021 8:21:59 AM	63508
Surr: 4-Bromofluorobenzene	80.5	70-130		%Rec	5	10/27/2021 8:21:59 AM	63508

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2110A63**

Date Reported: **10/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S.SW-3 6'

Project: LOWalpMP82 LOWalp

Collection Date: 10/21/2021 12:34:00 PM

Lab ID: 2110A63-017

Matrix: SOIL

Received Date: 10/22/2021 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	61		mg/Kg	20	10/26/2021 3:46:58 PM	63563
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	48	9.7		mg/Kg	1	10/25/2021 9:59:34 PM	63516
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/25/2021 9:59:34 PM	63516
Surr: DNOP	77.2	70-130		%Rec	1	10/25/2021 9:59:34 PM	63516
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	10/27/2021 11:06:35 AM	63508
Surr: BFB	106	70-130		%Rec	5	10/27/2021 11:06:35 AM	63508
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	10/27/2021 11:06:35 AM	63508
Toluene	ND	0.25		mg/Kg	5	10/27/2021 11:06:35 AM	63508
Ethylbenzene	ND	0.25		mg/Kg	5	10/27/2021 11:06:35 AM	63508
Xylenes, Total	ND	0.50		mg/Kg	5	10/27/2021 11:06:35 AM	63508
Surr: 4-Bromofluorobenzene	89.5	70-130		%Rec	5	10/27/2021 11:06:35 AM	63508

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2110A63**

Date Reported: **10/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S.SW-4 6'

Project: LOWalpMP82 LOWalp

Collection Date: 10/21/2021 12:37:00 PM

Lab ID: 2110A63-018

Matrix: SOIL

Received Date: 10/22/2021 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	60		mg/Kg	20	10/26/2021 4:24:01 PM	63563
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	46	9.8		mg/Kg	1	10/25/2021 10:10:23 PM	63516
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/25/2021 10:10:23 PM	63516
Surr: DNOP	80.6	70-130		%Rec	1	10/25/2021 10:10:23 PM	63516
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	10/27/2021 11:29:53 AM	63508
Surr: BFB	106	70-130		%Rec	5	10/27/2021 11:29:53 AM	63508
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	10/27/2021 11:29:53 AM	63508
Toluene	ND	0.25		mg/Kg	5	10/27/2021 11:29:53 AM	63508
Ethylbenzene	ND	0.25		mg/Kg	5	10/27/2021 11:29:53 AM	63508
Xylenes, Total	ND	0.49		mg/Kg	5	10/27/2021 11:29:53 AM	63508
Surr: 4-Bromofluorobenzene	90.1	70-130		%Rec	5	10/27/2021 11:29:53 AM	63508

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2110A63

28-Oct-21

Client: Talon Artesia
Project: LOWalpMP82 LOWalp

Sample ID: MB-63553	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 63553	RunNo: 82340								
Prep Date: 10/25/2021	Analysis Date: 10/25/2021	SeqNo: 2919930	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-63553	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 63553	RunNo: 82340								
Prep Date: 10/25/2021	Analysis Date: 10/25/2021	SeqNo: 2919932	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.4	90	110			

Sample ID: MB-63563	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 63563	RunNo: 82360								
Prep Date: 10/26/2021	Analysis Date: 10/26/2021	SeqNo: 2921856	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-63563	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 63563	RunNo: 82360								
Prep Date: 10/26/2021	Analysis Date: 10/26/2021	SeqNo: 2921857	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.1	90	110			

Sample ID: MB-63562	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 63562	RunNo: 82359								
Prep Date: 10/26/2021	Analysis Date: 10/26/2021	SeqNo: 2922227	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-63562	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 63562	RunNo: 82359								
Prep Date: 10/26/2021	Analysis Date: 10/26/2021	SeqNo: 2922228	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.1	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 Quantitative 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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2110A63

28-Oct-21

Client: Talon Artesia
Project: LOWalpMP82 LOWalp

Sample ID: LCS-63516	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 63516	RunNo: 82295								
Prep Date: 10/25/2021	Analysis Date: 10/25/2021	SeqNo: 2919925	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	87.1	68.9	135			
Surr: DNOP	4.6		5.000		92.8	70	130			

Sample ID: MB-63516	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 63516	RunNo: 82295								
Prep Date: 10/25/2021	Analysis Date: 10/25/2021	SeqNo: 2919933	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		100	70	130			

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 Quantitative 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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2110A63

28-Oct-21

Client: Talon Artesia
Project: LOWalpMP82 LOWalp

Sample ID: mb-63508	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 63508	RunNo: 82332								
Prep Date: 10/22/2021	Analysis Date: 10/26/2021	SeqNo: 2919454	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		103	70	130			

Sample ID: lcs-63508	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 63508	RunNo: 82332								
Prep Date: 10/22/2021	Analysis Date: 10/26/2021	SeqNo: 2919455	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	109	78.6	131			
Surr: BFB	1100		1000		112	70	130			

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 Quantitative 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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2110A63

28-Oct-21

Client: Talon Artesia
Project: LOWalpMP82 LOWalp

Sample ID: mb-63508	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 63508	RunNo: 82332								
Prep Date: 10/22/2021	Analysis Date: 10/26/2021	SeqNo: 2919499	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.86		1.000		85.7	70	130			

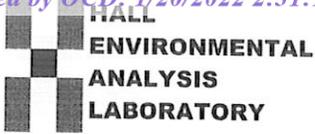
Sample ID: LCS-63508	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 63508	RunNo: 82332								
Prep Date: 10/22/2021	Analysis Date: 10/26/2021	SeqNo: 2919500	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	1.000	0	97.2	80	120			
Toluene	0.98	0.050	1.000	0	98.0	80	120			
Ethylbenzene	0.97	0.050	1.000	0	97.3	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.3	80	120			
Surr: 4-Bromofluorobenzene	0.85		1.000		85.5	70	130			

Sample ID: 2110a63-001ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: S-1 10'	Batch ID: 63508	RunNo: 82332								
Prep Date: 10/22/2021	Analysis Date: 10/26/2021	SeqNo: 2919503	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.12	0.9950	0	112	80	120			
Toluene	1.1	0.25	0.9950	0	114	80	120			
Ethylbenzene	1.1	0.25	0.9950	0	111	80	120			
Xylenes, Total	3.2	0.50	2.985	0	109	80	120			
Surr: 4-Bromofluorobenzene	4.2		4.975		84.3	70	130			

Sample ID: 2110a63-001amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: S-1 10'	Batch ID: 63508	RunNo: 82332								
Prep Date: 10/22/2021	Analysis Date: 10/26/2021	SeqNo: 2919504	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.12	0.9615	0	116	80	120	0.0457	20	
Toluene	1.1	0.24	0.9615	0	119	80	120	0.139	20	
Ethylbenzene	1.1	0.24	0.9615	0	115	80	120	0.291	20	
Xylenes, Total	3.3	0.48	2.885	0	113	80	120	0.574	20	
Surr: 4-Bromofluorobenzene	4.0		4.808		83.5	70	130	0	0	

Qualifiers:

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



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

Sample Log-In Check List

Client Name: Talon Artesia Work Order Number: 2110A63 RcptNo: 1

Received By: Cheyenne Cason 10/22/2021 7:15:00 AM

Completed By: Isaiah Ortiz 10/22/2021 8:11:59 AM

Reviewed By: JR 10/22/21

Handwritten initials: Cason, I-Ortiz

Chain of Custody

- 1. Is Chain of Custody complete? Yes [checked] No [] Not Present []
2. How was the sample delivered? Courier

Log In

- 3. Was an attempt made to cool the samples? Yes [checked] No [] NA []
4. Were all samples received at a temperature of >0° C to 6.0°C Yes [checked] No [] NA []
5. Sample(s) in proper container(s)? Yes [checked] No []
6. Sufficient sample volume for indicated test(s)? Yes [checked] No []
7. Are samples (except VOA and ONG) properly preserved? Yes [checked] No []
8. Was preservative added to bottles? Yes [] No [checked] NA []
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes [] No [] NA [checked]
10. Were any sample containers received broken? Yes [] No [checked]
11. Does paperwork match bottle labels? Yes [checked] No []
12. Are matrices correctly identified on Chain of Custody? Yes [checked] No []
13. Is it clear what analyses were requested? Yes [checked] No []
14. Were all holding times able to be met? Yes [checked] No []

of preserved bottles checked for pH:
(<2 or >12 unless noted)
Adjusted?
Checked by: TMC 10/22/21

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [] No [] NA [checked]

Person Notified:
By Whom:
Regarding:
Client Instructions:
Date:
Via: [] eMail [] Phone [] Fax [] In Person

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Contains 3 rows of data.

Oil Conservation Division

Incident ID	nAPP2127734737
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 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Matthew Reinhart Title: VP Global Logistics

Signature:  Date: January 20, 2022 | 14:00 CST

email: matthew.reinhart@hollyfrontier.com Telephone: 214.871.3473

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Jennifer Nobui Date: 06/14/2022

Printed Name: Jennifer Nobui Title: Environmental Specialist A

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

District IV
 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 74000

CONDITIONS

Operator: Talon LPE 408 W Texas Artesia, NM 88210	OGRID: 329944
	Action Number: 74000
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	6/14/2022