Frontier Field Services Madurai Pipeline Leak

Closure Report U/L K, Section 29, T19S, R33E Lea County, New Mexico NRM2006237844

December 1, 2020



Prepared for:

Frontier Field Services 4200 E. Skelly Drive Tulsa, OK 74135

By:

Safety & Environmental Solutions, Inc. 703 East Clinton Street Hobbs, New Mexico 88240

Company Contacts

Representative	Company	Telephone	E-mail
Harley Everhart	Frontier Field Srvcs.	575-513-4922	heverhart@durangomidstream.com
Bob Allen	SESI	575-397-0510	ballen@sesi-nm.com

Background

Safety and Environmental Solutions, Inc., hereinafter referred to as (SESI) was engaged by Frontier Field Services to perform a site assessment on the Smith Ranch at the Madurai pipeline leak concerning a 13 bbls release of oil and produced water. According to the C-141, a compromised fitting caused a 4" poly line to rupture. Eleven barrels of fluids were recovered. This site is situated in Lea County, Section 29, Township 19S, and Range 33E.

SESI personnel performed an assessment of the site in January of 2020 based on generator knowledge of the leak location. SESI personnel mapped the leak and performed a test trench in the middle of the spill. The largest part of the spill area is a light overspray.

Surface and Ground Water

Based on the NMOCD Oil and Gas map included in this report, surface water is not present within 3,000 feet of this release. The New Mexico Office of the State Engineer records indicates the average depth to groundwater for the area to be between 200' and 250' bgs; however, since no wells less than 25 years old and less than a half mile away are known to be present, SESI will delineate this release to the most stringent criteria established by NMOCD.

Characterization

On January 3, 2020, SESI personnel performed a test trench to determine the vertical extent of the most saturated area of the leak. Frontier Field Services requested this test trench because they intended to begin digging up the contaminated soil. SESI advanced 1 test trench to a depth of 13'. The samples were properly packaged and preserved and sent to Cardinal Laboratories for analyzation. The results of the testing are captured in the summary below:

Frontier Field Services Madurai Pipeline Leak Soil Sample Results: Cardinal Environmental Laboratories 1/3/20									
SAMPLE ID	Chloride	GRO	DRO	EXT	Benzene	Toluene	Ethyl	Total	Total
				DRO			benzene	Xylenes	BIEX
TT-1 @ 1'	208	1560	57200	9320	9.46	6.57	3.51	32.3	51.8
TT-1 @ 3'	<16.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300
TT-1 @ 5'	448	2860	17500	2190	8.61	47.3	48.2	121	225
TT-1 @ 13'	80	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300

During this time, SESI also discovered that the release occurred on BLM land.

Therefore, SESI personnel requested an ARCH survey to be completed by Lone Mountain Archaeological Services. The findings of the report can be found in the supplemental documentation of the of this report. No known arch areas were disturbed during the course of the delineation or remediation.

Remediation

Once Frontier received the test trench results, they decided at that time to go ahead and dig up via backhoe the heavily saturated portion of the leak. Photos are included in this report, as well as a map of the excavated area. The estimated amount of contaminated soil removed is 360 yards based on disposal tickets. The soil was hauled off to a NMOCD-approved facility.

SESI personnel was then contacted to take surface samples of the overspray area and bottom samples of the excavation area. SESI took twenty samples to establish horizontal and vertical extent had been achieved. The samples were properly preserved and packaged then sent to Hall Laboratories for analyzation. The results of the sampling are captured in the table below.

Frontier Field Services									
Madurai Pipeline Leak									
Soil Sample Results: Hall Environmental Laboratories 7/8/20-7/9/20 AND 7/30/20									
SAMPLE ID	Chloride	GRO	DRO	EXT	Benzene	Toluene	Ethyl	Total	Total
				DRO			benzene	Xylenes	BTEX
AH1 @ SURFACE	ND	ND	ND	ND	ND	ND	ND	ND	ND
AH2 @ 6"	ND	ND	ND	ND	ND	ND	ND	ND	ND
AH3 @ SURFACE	ND	ND	ND	ND	ND	ND	ND	ND	ND
AH4 @ SURFACE	ND	ND	12	ND	ND	ND	ND	ND	ND
AH5 @ SURFACE	ND	ND	22	ND	ND	ND	ND	ND	ND
AH6 @ SURFACE	ND	ND	ND	ND	ND	ND	ND	ND	ND
AH7 @ SURFACE	ND	ND	ND	ND	ND	ND	ND	ND	ND
AH8 @ SURFACE	ND	ND	ND	ND	ND	ND	ND	ND	ND
AH9 @ SURFACE	280	ND	ND	ND	ND	ND	ND	ND	ND
AH10 @ SURFACE	ND	ND	9300	9100	ND	ND	ND	ND	ND
AH10 @ 1'	ND	ND	13	ND	ND	ND	ND	ND	ND
AH11 @ SURFACE	ND	ND	25	ND	ND	ND	ND	ND	ND
AH12 @ SURFACE	ND	ND	ND	ND	ND	ND	ND	ND	ND
AH13 @ SURFACE	ND	ND	ND	ND	ND	ND	ND	ND	ND
AH14 @ SURFACE	ND	ND	ND	ND	ND	ND	ND	ND	ND
AH15 @ SURFACE	ND	ND	14	ND	ND	ND	ND	ND	ND
AH16 @ 5'	ND	ND	ND	ND	ND	ND	ND	ND	ND
AH17 @ 5'	940	ND	ND	ND	ND	ND	ND	ND	ND
AH17 @ 12'	ND	ND	ND	ND	ND	ND	ND	ND	ND
AH18 @ SURFACE	ND	ND	ND	ND	ND	ND	ND	ND	ND
AH19 @ 1'	1900	170	24000	15000	ND	1.5	3.4	12	ND
AH19 @ 10'	69	ND	ND	ND	ND	ND	ND	ND	ND
AH20 @ SURFACE	ND	ND	ND	ND	ND	ND	ND	ND	ND

During the process of remediation, it was observed through field testing that several areas would need to be further excavated. Excavation was performed and bottom

samples were used to verify successful removal of the contaminated soil. These areas included at and near the samples of AH2, AH10, AH16, AH17, and AH19. Once confirmation sample results showed vertical extent had been achieved through remediation, further excavation ceased in that area. Pictures of the remediation are included in this report.

For good measure, SESI conducted final confirmation sampling of the excavation in October to ensure closure criteria had been met in the excavation area. A map is included in this report. The samples were properly packaged and sent to Hall Labs. The results are captured in the table below.

Frontier Field Services Madurai Pipeline Leak Soil Sample Results: Hall Environmental Laboratories 10/26/20									
SAMPLE ID	Chloride	GRO	DRO	EXT	Benzene	Toluene	Ethyl	Total	Total
				DRO			benzene	Xylenes	BTEX
SP20 N WALL	150	ND	11	ND	ND	ND	ND	ND	ND
SP21 S WALL	140	ND	11	ND	ND	ND	ND	ND	ND
SP22 N WALL	ND	ND	ND	ND	ND	ND	ND	ND	ND
SP23 S WAL	ND	ND	ND	ND	ND	ND	ND	ND	ND
SP24 W WALL	ND	ND	ND	ND	ND	ND	ND	ND	ND
SP25 E WALL	ND	ND	ND	ND	ND	ND	ND	ND	ND

Closure Request

Based on the confirmation and horizontal sample results, SESI believes the release area to be properly remediated according to the closure criteria set forth in Table I of the Spill Rule 19.15.29 NMAC. Therefore, SESI, on behalf of Frontier Field Services respectfully requests closure of this release. Supplemental information has been included in this report to support our closure request.

Supplemental Documentation for Closure

Map of Release with sample locations Photos of remediation Excavation Map Confirmation samples map NMOCD Oil and Gas Map BLM Cave Karst Map FEMA Floodplain Map Laboratory Analysis Arch Survey C-141, pages 3-6



Local:Sep 29, 2020 at 1:12:45 PM MDT +32.630413,-103.685835 247° SE Altitude:1092.8meter Speed:12.0km/h



Local:Sep 29, 2020 at 1:15:13 PM MDT +32.630168,-103.686102 42° NE

Altitude:1096.7meter Speed:1.5km/h

Page 6 of 103



Local:Sep 29, 2020 at 1:20:48 PM MDT +32.630395,-103.685988 181° S



Local:Sep 29, 2020 at 1:20:58 PM MDT +32.630395,-103.685988 206° SE Altitude:1095.5meter Speed:1.8km/h







Madurai Pipeline Leak, Smith Ranch



Wells - Larg	rge Scale	¥	CO2, Temporarily Abandoned	¢م	Injection, Active	٠	Oil, Cancelled	۵	Salt Water Injection, New
? unde	efined	☆	Gas, Active	,ď	Injection, Cancelled	•	Oil, New	۵	Salt Water Injection, Plugged
Misc	cellaneous	÷	Gas, Cancelled	ø	Injection, New	•	Oil, Plugged	۵	Salt Water Injection, Temporarily Abandoned
¥ CO2	2, Active	☆	Gas, New	ø	Injection, Plugged	•	Oil, Temporarily Abandoned	٠	Water, Active
* CO2	2, Cancelled	⇔	Gas, Plugged	ø	Injection, Temporarily Abandoned	۵	Salt Water Injection, Active	6	Water, Cancelled
* CO2	2, New	*	Gas, Temporarily Abandoned	•	Oil, Active	۵	Salt Water Injection, Cancelled	٠	Water, New
* CO2	2, Plugged								

```
Released to Imaging: 2/5/2021 9:49:31 AM
```

Bureau of Land Management, Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, Intermap, USGS, METI/NASA, EPA, USDA, Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department., OCD, BLM

Received by OCD: 12/1/2020 3:13:28 PM

Madurai Pipeline Leak, Smith Ranch

DUR-19-002 NRM2006237844

	Page 12 of 10.	3						
Legend								
	Low potential							
0	Samples							
0	Spill Area 1							

AH1AH2 AH3 OOAH8 AH6 AH9 AH14

Google Earth

4000 ft

N

22229 Sea 28 Imaging: 2/5/2021 9:49:31 AM

Received by OCD: 12/1/2020 3:13:28 PM National Flood Hazard Layer FIRMette



Legend

Page 13 of 103





January 09, 2020

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: 6" POLY SMITH RANCH

Enclosed are the results of analyses for samples received by the laboratory on 01/03/20 13:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

Received:	01/03/2020	Sampling Date:	01/03/2020
Reported:	01/09/2020	Sampling Type:	Soil
Project Name:	6" POLY SMITH RANCH	Sampling Condition:	** (See Notes)
Project Number:	DUR - 20-001	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: TT - 1 1' (H000018-01)

BTEX 8021B	mg/	'kg	Analyze	d By: ms					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	9.46	1.00	01/08/2020	ND	1.92	96.0	2.00	1.86	
Toluene*	6.57	1.00	01/08/2020	ND	1.95	97.3	2.00	2.49	
Ethylbenzene*	3.51	1.00	01/08/2020	ND	2.03	101	2.00	2.90	
Total Xylenes*	32.3	3.00	01/08/2020	ND	6.09	102	6.00	2.76	
Total BTEX	51.8	6.00	01/08/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	130 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	01/06/2020	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1560	100	01/08/2020	ND	212	106	200	4.06	
DRO >C10-C28*	57200	100	01/08/2020	ND	231	115	200	1.74	
EXT DRO >C28-C36	9320	100	01/08/2020	ND					
Surrogate: 1-Chlorooctane	246 9	% 41-142	2						
Surrogate: 1-Chlorooctadecane	1990	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the sample identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

Received:	01/03/2020	Sampling Date:	01/03/2020
Reported:	01/09/2020	Sampling Type:	Soil
Project Name:	6" POLY SMITH RANCH	Sampling Condition:	** (See Notes)
Project Number:	DUR - 20-001	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: TT - 1 3' (H000018-02)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2020	ND	1.92	96.0	2.00	1.86	
Toluene*	<0.050	0.050	01/08/2020	ND	1.95	97.3	2.00	2.49	
Ethylbenzene*	<0.050	0.050	01/08/2020	ND	2.03	101	2.00	2.90	
Total Xylenes*	<0.150	0.150	01/08/2020	ND	6.09	102	6.00	2.76	
Total BTEX	<0.300	0.300	01/08/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID 114 % 73.3-12.		9							
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/06/2020	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2020	ND	191	95.4	200	6.89	
DRO >C10-C28*	<10.0	10.0	01/08/2020	ND	220	110	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	01/08/2020	ND					
Surrogate: 1-Chlorooctane	77.8	% 41-142							
Surrogate: 1-Chlorooctadecane	79.4	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the sample identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

Received:	01/03/2020	Sampling Date:	01/03/2020
Reported:	01/09/2020	Sampling Type:	Soil
Project Name:	6" POLY SMITH RANCH	Sampling Condition:	** (See Notes)
Project Number:	DUR - 20-001	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: TT - 1 5' (H000018-03)

BTEX 8021B	mg/	kg	Analyze	d By: ms					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	8.61	0.500	01/08/2020	ND	1.92	96.0	2.00	1.86	
Toluene*	47.3	0.500	01/08/2020	ND	1.95	97.3	2.00	2.49	
Ethylbenzene*	48.2	0.500	01/08/2020	ND	2.03	101	2.00	2.90	
Total Xylenes*	121	1.50	01/08/2020	ND	6.09	102	6.00	2.76	
Total BTEX	225	3.00	01/08/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	164 %	6 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	01/06/2020	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2860	50.0	01/08/2020	ND	212	106	200	4.06	
DRO >C10-C28*	17500	50.0	01/08/2020	ND	231	115	200	1.74	
EXT DRO >C28-C36	2190	50.0	01/08/2020	ND					
Surrogate: 1-Chlorooctane	286 %	6 41-142	?						
Surrogate: 1-Chlorooctadecane	453 %	6 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims based upon any of the above stated reasons or otherwise. Results relate only to the sample identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

Received:	01/03/2020	Sampling Date:	01/03/2020
Reported:	01/09/2020	Sampling Type:	Soil
Project Name:	6" POLY SMITH RANCH	Sampling Condition:	** (See Notes)
Project Number:	DUR - 20-001	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: TT - 1 13' (H000018-04)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2020	ND	1.92	96.0	2.00	1.86	
Toluene*	<0.050	0.050	01/08/2020	ND	1.95	97.3	2.00	2.49	
Ethylbenzene*	<0.050	0.050	01/08/2020	ND	2.03	101	2.00	2.90	
Total Xylenes*	<0.150	0.150	01/08/2020	ND	6.09	102	6.00	2.76	
Total BTEX	<0.300	0.300	01/08/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/06/2020	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2020	ND	191	95.4	200	6.89	
DRO >C10-C28*	<10.0	10.0	01/08/2020	ND	220	110	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	01/08/2020	ND					
Surrogate: 1-Chlorooctane	71.7 9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	73.8 9	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims based upon any of the above stated reasons or otherwise. Results relate only to the sample identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatscever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including whother this subsidiaries, afflicate or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Received by OCD: 12/1/2020 3:13:28 PM

ject Manager: Bob Allen		P.O. #:		VALYSIS REQUEST
tress: 703 East Clinton, Po	O Box 1613	Company: Same		
: Hobbs	State: NM Zip: 88240	Attn:		
ine #: 575 397-0510	Fax #: 575 393-4388	Address:		
ject #: 10K-20-001	Project Owner:	City:		
ect Name: 6" WSLY	Smith Karaca	State: Zip:		
ect Location: LEVA Cour	544	Phone #:		
Ipler Name: DOSA	Jory	Fax #:	53	
LAB USE ONLY	MATRIX	PRESERV. SAMPLING	le	
ab I.D. Sample I.	B OR (C)OMP MAINERS MOWATER EWATER	R: BASE: COOL R:	Plt Plt	
81000	(G)R # CC GRO WAS SOIL OIL		е 7 С	
1 111 1	1 × ×	× 0103 1000	D X X X	
- C 1-11 - C	X I X	X alos iers	DXX X	
		X alles voss	でかか	
4/1-1 1545		X erles 1120 X	ででの	
			*	
NOTE: Liablify and Damages, Cardinal's liablify and clien .All claims including those for negligence and any other ca In no event shall Cardinal he liable for incidental account	nt's exclusive remedy for any claim arising whether based in contrac ause whatsoever shall be deemed waived unless made in writing an	ct or tort, shall be irrited to the amount paid by the client for the nd received by Cardinal within 30 days after completion of the appl	icable	
or successors enising out of or related to the performance of QUISDED BV:	I services hereunder by Cardinal, regardless of whether such claim	viss of use, or loss of profits incurred by client, its subsidiaries, to based upon any of the above stated reasons or otherwise.		
	Times	Phone Result: Fax Result: REMARKS:	□ Yes □ No Add	l Phone #: l Fax #:
quished By:	Date: Received By:	Allaby REMARKS:		1 F 0A 9.

L





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

July 20, 2020

Bob Allen Safety & Environmental Solutions PO Box 1613 Hobbs, NM 88241 TEL: (575) 397-0510 FAX: (575) 393-4388

RE: Durango Maduro 6 inch Polylane

OrderNo.: 2007553

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 21 sample(s) on 7/11/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Lab ID:

Analytical Report Lab Order 2007553

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

2007553-001

Durango Maduro 6 inch Polylane

Date Reported: 7/20/2020

Client Sample ID: AH-1 Surface Collection Date: 7/8/2020 8:50:00 AM Received Date: 7/11/2020 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	CJS
Chloride	ND	60		mg/Kg	20	7/16/2020 3:38:22 PM	53754
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst:	JME
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/14/2020 5:48:51 PM	53669
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/14/2020 5:48:51 PM	53669
Surr: DNOP	55.0	55.1-146	S	%Rec	1	7/14/2020 5:48:51 PM	53669
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/14/2020 10:45:52 PM	53657
Surr: BFB	92.0	66.6-105		%Rec	1	7/14/2020 10:45:52 PM	53657
EPA METHOD 8021B: VOLATILES						Analyst:	NSB
Benzene	ND	0.025		mg/Kg	1	7/14/2020 10:45:52 PM	53657
Toluene	ND	0.049		mg/Kg	1	7/14/2020 10:45:52 PM	53657
Ethylbenzene	ND	0.049		mg/Kg	1	7/14/2020 10:45:52 PM	53657
Xylenes, Total	ND	0.098		mg/Kg	1	7/14/2020 10:45:52 PM	53657
Surr: 4-Bromofluorobenzene	106	80-120		%Rec	1	7/14/2020 10:45:52 PM	53657

Matrix: SOIL

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

Qualifiers:

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

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

Page 1 of 29

2007553-002

Project:

Lab ID:

Analytical Report Lab Order 2007553

Date Reported: 7/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: AH-2 6" Durango Maduro 6 inch Polylane Collection Date: 7/8/2020 9:15:00 AM Matrix: SOIL Received Date: 7/11/2020 7:10:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: CJS
Chloride	ND	60	mg/Kg	20	7/16/2020 4:15:37 PM	53754
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	7/14/2020 6:13:12 PM	53669
Motor Oil Range Organics (MRO)	ND	51	mg/Kg	1	7/14/2020 6:13:12 PM	53669
Surr: DNOP	64.4	55.1-146	%Rec	1	7/14/2020 6:13:12 PM	53669
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/14/2020 11:09:27 PM	53657
Surr: BFB	89.4	66.6-105	%Rec	1	7/14/2020 11:09:27 PM	53657
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	7/14/2020 11:09:27 PM	53657
Toluene	ND	0.049	mg/Kg	1	7/14/2020 11:09:27 PM	53657
Ethylbenzene	ND	0.049	mg/Kg	1	7/14/2020 11:09:27 PM	53657
Xylenes, Total	ND	0.098	mg/Kg	1	7/14/2020 11:09:27 PM	53657
Surr: 4-Bromofluorobenzene	103	80-120	%Rec	1	7/14/2020 11:09:27 PM	53657

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

Qualifiers:

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

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

Page 2 of 29

Lab ID:

Analytical Report Lab Order 2007553

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

2007553-003

Durango Maduro 6 inch Polylane

Date Reported: 7/20/2020 Client Sample ID: AH-3 Surface Collection Date: 7/8/2020 9:35:00 AM

Received Date: 7/11/2020 7:10:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CJS
Chloride	ND	60	mg/Kg	20	7/16/2020 4:28:02 PM	53754
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	7/14/2020 6:37:37 PM	53669
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	7/14/2020 6:37:37 PM	53669
Surr: DNOP	72.8	55.1-146	%Rec	1	7/14/2020 6:37:37 PM	53669
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/14/2020 11:32:54 PM	53657
Surr: BFB	90.6	66.6-105	%Rec	1	7/14/2020 11:32:54 PM	53657
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.025	mg/Kg	1	7/14/2020 11:32:54 PM	53657
Toluene	ND	0.049	mg/Kg	1	7/14/2020 11:32:54 PM	53657
Ethylbenzene	ND	0.049	mg/Kg	1	7/14/2020 11:32:54 PM	53657
Xylenes, Total	ND	0.098	mg/Kg	1	7/14/2020 11:32:54 PM	53657
Surr: 4-Bromofluorobenzene	105	80-120	%Rec	1	7/14/2020 11:32:54 PM	53657

Matrix: SOIL

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range RL Reporting Limit
- Page 3 of 29

Analytical Report Lab Order 2007553

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Durango Maduro 6 inch Polylane

Date Reported: 7/20/2020 Client Sample ID: AH-4 Surface Collection Date: 7/8/2020 9:50:00 AM

Lab ID: 2007553-004	Matrix: SOIL		Received Dat	e:7/	11/2020 7:10:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CJS
Chloride	ND	60	mg/Kg	20	7/16/2020 4:40:26 PM	53754
EPA METHOD 8015M/D: DIESEL RANG	BE ORGANICS				Analyst	JME
Diesel Range Organics (DRO)	12	9.2	mg/Kg	1	7/14/2020 7:01:51 PM	53669
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	7/14/2020 7:01:51 PM	53669
Surr: DNOP	77.0	55.1-146	%Rec	1	7/14/2020 7:01:51 PM	53669
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	7/14/2020 11:56:17 PM	53657
Surr: BFB	91.6	66.6-105	%Rec	1	7/14/2020 11:56:17 PM	53657
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.023	mg/Kg	1	7/14/2020 11:56:17 PM	53657
Toluene	ND	0.046	mg/Kg	1	7/14/2020 11:56:17 PM	53657
Ethylbenzene	ND	0.046	mg/Kg	1	7/14/2020 11:56:17 PM	53657
Xylenes, Total	ND	0.092	mg/Kg	1	7/14/2020 11:56:17 PM	53657
Surr: 4-Bromofluorobenzene	105	80-120	%Rec	1	7/14/2020 11:56:17 PM	53657

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

Oualifiers:

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

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

Page 4 of 29

Analytical Report Lab Order 2007553

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Project: Durango Maduro 6 inch Polylane

Date Reported: 7/20/2020 Client Sample ID: AH-5 Surface Collection Date: 7/8/2020 10:15:00 AM

Lab ID: 2007553-005	Matrix: SOIL Received Date: 7/11/2020 7:10:00 AM					
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CJS
Chloride	ND	60	mg/Kg	20	7/16/2020 4:52:50 PM	53754
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	JME
Diesel Range Organics (DRO)	22	9.7	mg/Kg	1	7/14/2020 7:26:12 PM	53669
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/14/2020 7:26:12 PM	53669
Surr: DNOP	90.6	55.1-146	%Rec	1	7/14/2020 7:26:12 PM	53669
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/15/2020 12:19:46 AM	53657
Surr: BFB	91.5	66.6-105	%Rec	1	7/15/2020 12:19:46 AM	53657
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	7/15/2020 12:19:46 AM	53657
Toluene	ND	0.049	mg/Kg	1	7/15/2020 12:19:46 AM	53657
Ethylbenzene	ND	0.049	mg/Kg	1	7/15/2020 12:19:46 AM	53657
Xylenes, Total	ND	0.099	mg/Kg	1	7/15/2020 12:19:46 AM	53657
Surr: 4-Bromofluorobenzene	108	80-120	%Rec	1	7/15/2020 12:19:46 AM	53657

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

Qualifiers:

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

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

Page 5 of 29

Lab ID:

Analytical Report Lab Order 2007553

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

2007553-006

Durango Maduro 6 inch Polylane

Date Reported: 7/20/2020
Client Sample ID: AH-6 Surface

Collection Date: 7/8/2020 10:35:00 AM Received Date: 7/11/2020 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: CJS
Chloride	ND	60		mg/Kg	20	7/16/2020 5:54:52 PM	53761
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS					Analyst	JME
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/14/2020 8:40:39 AM	53683
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/14/2020 8:40:39 AM	53683
Surr: DNOP	155	55.1-146	S	%Rec	1	7/14/2020 8:40:39 AM	53683
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/15/2020 12:43:29 AM	53657
Surr: BFB	89.8	66.6-105		%Rec	1	7/15/2020 12:43:29 AM	53657
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.024		mg/Kg	1	7/15/2020 12:43:29 AM	53657
Toluene	ND	0.049		mg/Kg	1	7/15/2020 12:43:29 AM	53657
Ethylbenzene	ND	0.049		mg/Kg	1	7/15/2020 12:43:29 AM	53657
Xylenes, Total	ND	0.098		mg/Kg	1	7/15/2020 12:43:29 AM	53657
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	7/15/2020 12:43:29 AM	53657

Matrix: SOIL

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

Qualifiers:

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

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

Page 6 of 29

Lab ID:

Analytical Report Lab Order 2007553

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

2007553-007

Surr: 4-Bromofluorobenzene

Durango Maduro 6 inch Polylane

Date Reported: 7/20/2020 Client Sample ID: AH-7 Surface Collection Date: 7/8/2020 10:55:00 AM Received Date: 7/11/2020 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	CJS
Chloride	ND	60		mg/Kg	20	7/16/2020 6:32:05 PM	53761
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst	JME
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/14/2020 9:12:11 AM	53683
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/14/2020 9:12:11 AM	53683
Surr: DNOP	146	55.1-146	S	%Rec	1	7/14/2020 9:12:11 AM	53683
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/15/2020 1:07:04 AM	53657
Surr: BFB	90.6	66.6-105		%Rec	1	7/15/2020 1:07:04 AM	53657
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.025		mg/Kg	1	7/15/2020 1:07:04 AM	53657
Toluene	ND	0.050		mg/Kg	1	7/15/2020 1:07:04 AM	53657
Ethylbenzene	ND	0.050		mg/Kg	1	7/15/2020 1:07:04 AM	53657
Xylenes, Total	ND	0.099		mg/Kg	1	7/15/2020 1:07:04 AM	53657

104

80-120

%Rec

1

7/15/2020 1:07:04 AM

53657

Matrix: SOIL

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

Qualifiers:

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

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

Page 7 of 29

Analytical Report Lab Order 2007553

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Surr: 4-Bromofluorobenzene

Date Reported: 7/20/2020
Client Sample ID: AH-8 Surface

Project: Durango Maduro 6 inch Polylane Collection Date: 7/8/2020 11:15:00 AM Lab ID: 2007553-008 Matrix: SOIL Received Date: 7/11/2020 7:10:00 AM Result **RL** Qual Units **DF** Date Analyzed Analyses Batch **EPA METHOD 300.0: ANIONS** Analyst: CJS Chloride ND 60 mg/Kg 20 7/16/2020 6:44:29 PM 53761 EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: JME **Diesel Range Organics (DRO)** ND 9.6 mg/Kg 1 7/14/2020 9:22:00 AM 53683 ND Motor Oil Range Organics (MRO) 48 mg/Kg 1 7/14/2020 9:22:00 AM 53683 Surr: DNOP 151 55.1-146 S %Rec 1 7/14/2020 9:22:00 AM 53683 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 7/15/2020 1:30:24 AM mg/Kg 53657 4.9 1 Surr: BFB 90.3 %Rec 7/15/2020 1:30:24 AM 66.6-105 1 53657 **EPA METHOD 8021B: VOLATILES** Analyst: NSB ND 7/15/2020 1:30:24 AM Benzene 0.025 mg/Kg 53657 1 Toluene ND 0.049 mg/Kg 7/15/2020 1:30:24 AM 53657 1 Ethylbenzene ND 0.049 mg/Kg 7/15/2020 1:30:24 AM 53657 1 Xylenes, Total ND 0.099 mg/Kg 7/15/2020 1:30:24 AM 53657 1

102

80-120

%Rec

1

7/15/2020 1:30:24 AM

53657

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

Qualifiers:

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

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

Page 8 of 29

Lab ID:

Analytical Report Lab Order 2007553

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

2007553-009

Durango Maduro 6 inch Polylane

Date Reported: 7/20/2020 Client Sample ID: AH-9 Surface Collection Date: 7/8/2020 11:40:00 AM

Received Date: 7/11/2020 7:10:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: CJS
Chloride	280	60	mg/Kg	20	7/16/2020 6:56:54 PM	53761
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	JME
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	7/14/2020 9:31:53 AM	53683
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/14/2020 9:31:53 AM	53683
Surr: DNOP	134	55.1-146	%Rec	1	7/14/2020 9:31:53 AM	53683
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/15/2020 1:53:50 AM	53657
Surr: BFB	90.0	66.6-105	%Rec	1	7/15/2020 1:53:50 AM	53657
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	7/15/2020 1:53:50 AM	53657
Toluene	ND	0.050	mg/Kg	1	7/15/2020 1:53:50 AM	53657
Ethylbenzene	ND	0.050	mg/Kg	1	7/15/2020 1:53:50 AM	53657
Xylenes, Total	ND	0.099	mg/Kg	1	7/15/2020 1:53:50 AM	53657
Surr: 4-Bromofluorobenzene	106	80-120	%Rec	1	7/15/2020 1:53:50 AM	53657

Matrix: SOIL

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

Qualifiers:

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

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

Page 9 of 29

Lab ID:

Analytical Report Lab Order 2007553

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

2007553-010

Durango Maduro 6 inch Polylane

Date Reported: 7/20/2020
Client Sample ID: AH-10 Surface

Collection Date: 7/8/2020 11:45:00 AM Received Date: 7/11/2020 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	CJS
Chloride	ND	59		mg/Kg	20	7/16/2020 7:09:19 PM	53761
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	JME
Diesel Range Organics (DRO)	9300	480		mg/Kg	50	7/14/2020 10:06:29 AM	53683
Motor Oil Range Organics (MRO)	9100	2400		mg/Kg	50	7/14/2020 10:06:29 AM	53683
Surr: DNOP	0	55.1-146	S	%Rec	50	7/14/2020 10:06:29 AM	53683
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	25	D	mg/Kg	5	7/15/2020 2:40:44 AM	53657
Surr: BFB	92.8	66.6-105	D	%Rec	5	7/15/2020 2:40:44 AM	53657
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.12	D	mg/Kg	5	7/15/2020 2:40:44 AM	53657
Toluene	ND	0.25	D	mg/Kg	5	7/15/2020 2:40:44 AM	53657
Ethylbenzene	ND	0.25	D	mg/Kg	5	7/15/2020 2:40:44 AM	53657
Xylenes, Total	ND	0.49	D	mg/Kg	5	7/15/2020 2:40:44 AM	53657
Surr: 4-Bromofluorobenzene	102	80-120	D	%Rec	5	7/15/2020 2:40:44 AM	53657

Matrix: SOIL

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

Qualifiers:

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

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

Page 10 of 29

Lab ID:

Analytical Report Lab Order 2007553

Date Reported: 7/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: AH-10 1ft Durango Maduro 6 inch Polylane Collection Date: 7/8/2020 12:20:00 PM 2007553-011 Matrix: SOIL Received Date: 7/11/2020 7:10:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CJS
Chloride	ND	60	mg/Kg	20	7/16/2020 7:21:44 PM	53761
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: JME
Diesel Range Organics (DRO)	13	9.7	mg/Kg	1	7/14/2020 10:16:23 AM	53683
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/14/2020 10:16:23 AM	53683
Surr: DNOP	121	55.1-146	%Rec	1	7/14/2020 10:16:23 AM	53683
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/15/2020 3:04:13 AM	53657
Surr: BFB	91.1	66.6-105	%Rec	1	7/15/2020 3:04:13 AM	53657
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.025	mg/Kg	1	7/15/2020 3:04:13 AM	53657
Toluene	ND	0.050	mg/Kg	1	7/15/2020 3:04:13 AM	53657
Ethylbenzene	ND	0.050	mg/Kg	1	7/15/2020 3:04:13 AM	53657
Xylenes, Total	ND	0.099	mg/Kg	1	7/15/2020 3:04:13 AM	53657
Surr: 4-Bromofluorobenzene	106	80-120	%Rec	1	7/15/2020 3:04:13 AM	53657

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

Qualifiers:

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

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

Page 11 of 29

Lab ID:

Analytical Report Lab Order 2007553

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

2007553-012

Durango Maduro 6 inch Polylane

Date Reported: 7/20/2020
Client Sample ID: AH-11 Surface

Collection Date: 7/8/2020 12:45:00 PM Received Date: 7/11/2020 7:10:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: CJS
Chloride	ND	60	mg/Kg	20	7/16/2020 7:58:57 PM	53761
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	: JME
Diesel Range Organics (DRO)	25	10	mg/Kg	1	7/14/2020 10:26:18 AM	53683
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	7/14/2020 10:26:18 AM	53683
Surr: DNOP	126	55.1-146	%Rec	1	7/14/2020 10:26:18 AM	53683
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/15/2020 3:27:50 AM	53657
Surr: BFB	89.1	66.6-105	%Rec	1	7/15/2020 3:27:50 AM	53657
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	7/15/2020 3:27:50 AM	53657
Toluene	ND	0.049	mg/Kg	1	7/15/2020 3:27:50 AM	53657
Ethylbenzene	ND	0.049	mg/Kg	1	7/15/2020 3:27:50 AM	53657
Xylenes, Total	ND	0.098	mg/Kg	1	7/15/2020 3:27:50 AM	53657
Surr: 4-Bromofluorobenzene	104	80-120	%Rec	1	7/15/2020 3:27:50 AM	53657

Matrix: SOIL

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

Qualifiers:

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

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

Page 12 of 29

Lab ID:

Analytical Report Lab Order 2007553

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

2007553-013

Durango Maduro 6 inch Polylane

Date Reported: 7/20/2020

Client Sample ID: AH-12 Surface Collection Date: 7/8/2020 1:10:00 PM Received Date: 7/11/2020 7:10:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: CJS
Chloride	ND	60	mg/Kg	20	7/16/2020 8:11:22 PM	53761
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	JME
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	7/14/2020 10:36:15 AM	53683
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	7/14/2020 10:36:15 AM	53683
Surr: DNOP	145	55.1-146	%Rec	1	7/14/2020 10:36:15 AM	53683
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/15/2020 3:51:29 AM	53657
Surr: BFB	90.5	66.6-105	%Rec	1	7/15/2020 3:51:29 AM	53657
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	7/15/2020 3:51:29 AM	53657
Toluene	ND	0.050	mg/Kg	1	7/15/2020 3:51:29 AM	53657
Ethylbenzene	ND	0.050	mg/Kg	1	7/15/2020 3:51:29 AM	53657
Xylenes, Total	ND	0.099	mg/Kg	1	7/15/2020 3:51:29 AM	53657
Surr: 4-Bromofluorobenzene	103	80-120	%Rec	1	7/15/2020 3:51:29 AM	53657

Matrix: SOIL

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

Qualifiers:

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

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

Page 13 of 29

Analytical Report Lab Order 2007553

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Surr: 4-Bromofluorobenzene

Durango Maduro 6 inch Polylane

Date Reported: 7/20/2020 Client Sample ID: AH-13 Surface Collection Date: 7/8/2020 1:30:00 PM

Lab ID: 2007553-014	Matrix: SOIL	Received Date: 7/11/2020 7:10:00 AM				
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	CJS
Chloride	ND	60	mg/Kg	20	7/16/2020 8:23:46 PM	53761
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst:	JME
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	7/14/2020 10:46:15 AM	53683
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/14/2020 10:46:15 AM	53683
Surr: DNOP	113	55.1-146	%Rec	1	7/14/2020 10:46:15 AM	53683
EPA METHOD 8015D: GASOLINE RANGE	i .				Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/15/2020 4:15:10 AM	53657
Surr: BFB	90.9	66.6-105	%Rec	1	7/15/2020 4:15:10 AM	53657
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.025	mg/Kg	1	7/15/2020 4:15:10 AM	53657
Toluene	ND	0.049	mg/Kg	1	7/15/2020 4:15:10 AM	53657
Ethylbenzene	ND	0.049	mg/Kg	1	7/15/2020 4:15:10 AM	53657
Xylenes, Total	ND	0.098	mg/Kg	1	7/15/2020 4:15:10 AM	53657

105

80-120

%Rec

1

7/15/2020 4:15:10 AM

53657

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

Qualifiers:

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

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

Page 14 of 29

. Released to Imaging: 2/5/2021 9:49:31 AM

Analytical Report Lab Order 2007553

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Durango Maduro 6 inch Polylane

Date Reported: 7/20/2020 Client Sample ID: AH-14 Surface Collection Date: 7/8/2020 1:50:00 PM

Lab ID: 2007553-015 Matrix: SOIL Received Date: 7/11/2020 7:10:00 AM Result **RL** Qual Units **DF** Date Analyzed Analyses Batch **EPA METHOD 300.0: ANIONS** Analyst: CJS Chloride ND 60 mg/Kg 20 7/16/2020 8:36:10 PM 53761 EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: JME **Diesel Range Organics (DRO)** ND 9.9 mg/Kg 1 7/14/2020 10:56:16 AM 53683 ND mg/Kg Motor Oil Range Organics (MRO) 50 1 7/14/2020 10:56:16 AM 53683 Surr: DNOP 126 55.1-146 %Rec 1 7/14/2020 10:56:16 AM 53683 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 7/15/2020 4:38:49 AM 5.0 mg/Kg 53657 1 Surr: BFB 91.8 7/15/2020 4:38:49 AM 66.6-105 %Rec 1 53657 **EPA METHOD 8021B: VOLATILES** Analyst: NSB ND 7/15/2020 4:38:49 AM Benzene 0.025 mg/Kg 53657 1 Toluene ND 0.050 mg/Kg 7/15/2020 4:38:49 AM 53657 1 Ethylbenzene ND 0.050 mg/Kg 7/15/2020 4:38:49 AM 53657 1 Xylenes, Total ND 0.10 mg/Kg 7/15/2020 4:38:49 AM 53657 1 Surr: 4-Bromofluorobenzene 108 80-120 %Rec 1 7/15/2020 4:38:49 AM 53657

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

Oualifiers:

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

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits J
- Р Sample pH Not In Range RL Reporting Limit
- Page 15 of 29
Lab ID:

Analytical Report Lab Order 2007553

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

2007553-016

Durango Maduro 6 inch Polylane

Date Reported: 7/20/2020
Client Sample ID: AH-15 Surface

Collection Date: 7/8/2020 2:20:00 PM Received Date: 7/11/2020 7:10:00 AM

Analyses	Result	RL (Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CJS
Chloride	ND	59	mg/Kg	20	7/16/2020 8:48:34 PM	53761
EPA METHOD 8015M/D: DIESEL RANGE ORG/	ANICS				Analyst	JME
Diesel Range Organics (DRO)	14	9.9	mg/Kg	1	7/14/2020 11:06:19 AM	53683
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	7/14/2020 11:06:19 AM	53683
Surr: DNOP	132	55.1-146	%Rec	1	7/14/2020 11:06:19 AM	53683
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/15/2020 5:02:28 AM	53657
Surr: BFB	88.0	66.6-105	%Rec	1	7/15/2020 5:02:28 AM	53657
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.025	mg/Kg	1	7/15/2020 5:02:28 AM	53657
Toluene	ND	0.049	mg/Kg	1	7/15/2020 5:02:28 AM	53657
Ethylbenzene	ND	0.049	mg/Kg	1	7/15/2020 5:02:28 AM	53657
Xylenes, Total	ND	0.099	mg/Kg	1	7/15/2020 5:02:28 AM	53657
Surr: 4-Bromofluorobenzene	105	80-120	%Rec	1	7/15/2020 5:02:28 AM	53657

Matrix: SOIL

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

Qualifiers:

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

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

Page 16 of 29

Analytical Report Lab Order 2007553

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Durango Maduro 6 inch Polylane

Date Reported: 7/20/2020

Client Sample ID: AH-16 5ft Collection Date: 7/9/2020 9:30:00 AM Received Date: 7/11/2020 7:10:00 AM

Lab ID: 2007553-017	Matrix: SOIL		Received Date: 7/11/2020 7:10:00 AM								
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch					
EPA METHOD 300.0: ANIONS					Analyst:	CJS					
Chloride	ND	60	mg/Kg	20	7/16/2020 9:00:58 PM	53761					
EPA METHOD 8015D MOD: GASOLINE RA	NGE				Analyst:	JMR					
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/14/2020 8:58:04 PM	53676					
Surr: BFB	97.2	70-130	%Rec	1	7/14/2020 8:58:04 PM	53676					
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst:	JME					
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	7/14/2020 11:16:24 AM	53683					
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/14/2020 11:16:24 AM	53683					
Surr: DNOP	145	55.1-146	%Rec	1	7/14/2020 11:16:24 AM	53683					
EPA METHOD 8260B: VOLATILES SHORT	LIST				Analyst:	JMR					
Benzene	ND	0.025	mg/Kg	1	7/14/2020 8:58:04 PM	53676					
Toluene	ND	0.049	mg/Kg	1	7/14/2020 8:58:04 PM	53676					
Ethylbenzene	ND	0.049	mg/Kg	1	7/14/2020 8:58:04 PM	53676					
Xylenes, Total	ND	0.098	mg/Kg	1	7/14/2020 8:58:04 PM	53676					
Surr: 1,2-Dichloroethane-d4	105	70-130	%Rec	1	7/14/2020 8:58:04 PM	53676					
Surr: 4-Bromofluorobenzene	94.8	70-130	%Rec	1	7/14/2020 8:58:04 PM	53676					
Surr: Dibromofluoromethane	103	70-130	%Rec	1	7/14/2020 8:58:04 PM	53676					
Surr: Toluene-d8	102	70-130	%Rec	1	7/14/2020 8:58:04 PM	53676					

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

Qualifiers:

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

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

Page 17 of 29

Lab ID:

Analytical Report
Lab Order 2007553

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

2007553-018

Durango Maduro 6 inch Polylane

Date Reported: 7/20/2020
Client Sample ID: AH-17 5ft

Collection Date: 7/9/2020 10:15:00 AM Received Date: 7/11/2020 7:10:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CJS
Chloride	940	60	mg/Kg	20	7/16/2020 9:13:23 PM	53761
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	JMR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/14/2020 10:23:36 PM	53676
Surr: BFB	94.3	70-130	%Rec	1	7/14/2020 10:23:36 PM	53676
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	JME
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	7/14/2020 11:26:31 AM	53683
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/14/2020 11:26:31 AM	53683
Surr: DNOP	119	55.1-146	%Rec	1	7/14/2020 11:26:31 AM	53683
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	JMR
Benzene	ND	0.025	mg/Kg	1	7/14/2020 10:23:36 PM	53676
Toluene	ND	0.050	mg/Kg	1	7/14/2020 10:23:36 PM	53676
Ethylbenzene	ND	0.050	mg/Kg	1	7/14/2020 10:23:36 PM	53676
Xylenes, Total	ND	0.10	mg/Kg	1	7/14/2020 10:23:36 PM	53676
Surr: 1,2-Dichloroethane-d4	102	70-130	%Rec	1	7/14/2020 10:23:36 PM	53676
Surr: 4-Bromofluorobenzene	91.8	70-130	%Rec	1	7/14/2020 10:23:36 PM	53676
Surr: Dibromofluoromethane	103	70-130	%Rec	1	7/14/2020 10:23:36 PM	53676
Surr: Toluene-d8	101	70-130	%Rec	1	7/14/2020 10:23:36 PM	53676

Matrix: SOIL

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

Qualifiers:

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

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

Page 18 of 29

Lab ID:

Analytical Report Lab Order 2007553

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

2007553-019

Durango Maduro 6 inch Polylane

Date Reported: 7/20/2020 Client Sample ID: AH-18 Surface Collection Date: 7/9/2020 11:25:00 AM

Received Date: 7/11/2020 7:10:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: CJS
Chloride	ND	60	mg/Kg	20	7/16/2020 9:25:48 PM	53761
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: JMR
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/15/2020 2:11:51 AM	53676
Surr: BFB	95.0	70-130	%Rec	1	7/15/2020 2:11:51 AM	53676
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	: JME
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	7/14/2020 11:36:38 AM	53683
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/14/2020 11:36:38 AM	53683
Surr: DNOP	97.1	55.1-146	%Rec	1	7/14/2020 11:36:38 AM	53683
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	: JMR
Benzene	ND	0.024	mg/Kg	1	7/15/2020 2:11:51 AM	53676
Toluene	ND	0.048	mg/Kg	1	7/15/2020 2:11:51 AM	53676
Ethylbenzene	ND	0.048	mg/Kg	1	7/15/2020 2:11:51 AM	53676
Xylenes, Total	ND	0.097	mg/Kg	1	7/15/2020 2:11:51 AM	53676
Surr: 1,2-Dichloroethane-d4	103	70-130	%Rec	1	7/15/2020 2:11:51 AM	53676
Surr: 4-Bromofluorobenzene	93.1	70-130	%Rec	1	7/15/2020 2:11:51 AM	53676
Surr: Dibromofluoromethane	103	70-130	%Rec	1	7/15/2020 2:11:51 AM	53676
Surr: Toluene-d8	102	70-130	%Rec	1	7/15/2020 2:11:51 AM	53676

Matrix: SOIL

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

Qualifiers:

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

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

Page 19 of 29

Lab ID:

Analytical Report Lab Order 2007553

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

2007553-020

Durango Maduro 6 inch Polylane

Date Reported: 7/20/2020 Client Sample ID: AH-19 1ft

Collection Date: 7/9/2020 12:50:00 PM Received Date: 7/11/2020 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	CJS
Chloride	1600	60		mg/Kg	20	7/16/2020 9:38:13 PM	53761
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst	JMR
Gasoline Range Organics (GRO)	170	25		mg/Kg	5	7/15/2020 2:40:27 AM	53676
Surr: BFB	97.7	70-130		%Rec	5	7/15/2020 2:40:27 AM	53676
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS					Analyst	JME
Diesel Range Organics (DRO)	24000	500		mg/Kg	50	7/14/2020 11:46:59 AM	53683
Motor Oil Range Organics (MRO)	15000	2500		mg/Kg	50	7/14/2020 11:46:59 AM	53683
Surr: DNOP	0	55.1-146	S	%Rec	50	7/14/2020 11:46:59 AM	53683
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst	JMR
Benzene	ND	0.12		mg/Kg	5	7/15/2020 2:40:27 AM	53676
Toluene	1.5	0.25		mg/Kg	5	7/15/2020 2:40:27 AM	53676
Ethylbenzene	3.4	0.25		mg/Kg	5	7/15/2020 2:40:27 AM	53676
Xylenes, Total	12	0.50		mg/Kg	5	7/15/2020 2:40:27 AM	53676
Surr: 1,2-Dichloroethane-d4	107	70-130		%Rec	5	7/15/2020 2:40:27 AM	53676
Surr: 4-Bromofluorobenzene	53.8	70-130	S	%Rec	5	7/15/2020 2:40:27 AM	53676
Surr: Dibromofluoromethane	101	70-130		%Rec	5	7/15/2020 2:40:27 AM	53676
Surr: Toluene-d8	104	70-130		%Rec	5	7/15/2020 2:40:27 AM	53676

Matrix: SOIL

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

Qualifiers:

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

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

Page 20 of 29

Analytical Report
Lab Order 2007553

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Durango Maduro 6 inch Polylane

Date Reported: 7/20/2020 Client Sample ID: AH-20 Surface Collection Date: 7/9/2020 1:40:00 PM

Lab ID: 2007553-021 Matrix: SOIL Received Date: 7/11/2020 7:10:00 AM Result **RL** Qual Units **DF** Date Analyzed Analyses Batch **EPA METHOD 300.0: ANIONS** Analyst: CJS Chloride ND 60 mg/Kg 20 7/16/2020 9:50:38 PM 53761 **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JMR Gasoline Range Organics (GRO) ND 4.7 mg/Kg 1 7/15/2020 7:53:43 PM 53676 Surr: BFB 96.4 70-130 %Rec 1 7/15/2020 7:53:43 PM 53676 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: JME **Diesel Range Organics (DRO)** ND 9.1 mg/Kg 7/14/2020 11:57:19 AM 53683 1 Motor Oil Range Organics (MRO) ND 46 mg/Kg 7/14/2020 11:57:19 AM 53683 1 Surr: DNOP 116 55.1-146 %Rec 1 7/14/2020 11:57:19 AM 53683 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JMR ND 7/15/2020 3:08:56 AM Benzene 53676 0.024 mg/Kg 1 Toluene ND 0.047 mg/Kg 7/15/2020 3:08:56 AM 53676 1 Ethylbenzene ND 0.047 mg/Kg 7/15/2020 3:08:56 AM 53676 1 Xylenes, Total ND 0.095 mg/Kg 7/15/2020 3:08:56 AM 53676 1 Surr: 1,2-Dichloroethane-d4 104 70-130 %Rec 1 7/15/2020 3:08:56 AM 53676 Surr: 4-Bromofluorobenzene 86.9 70-130 %Rec 7/15/2020 3:08:56 AM 53676 1 Surr: Dibromofluoromethane 103 70-130 %Rec 1 7/15/2020 3:08:56 AM 53676 Surr: Toluene-d8 107 70-130 %Rec 1 7/15/2020 3:08:56 AM 53676

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

Qualifiers:

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

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

Page 21 of 29

OC SUMMARY REPORT

	vironmo	ntal Analy	veie T	oborot	ory Inc					WO#:	2007553
	IVII UIIIIIE	illai Allai	y 515 I		ory, mc.						20-Jul-20
Client: Project:	Safet	y & Environmo	ental Sc inch Pc	olutions							
	Dura	ingo Madulo o		nyiane							
Sample ID:	MB-53754	SampT	ype: mb	olk	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID:	PBS	Batch	h ID: 53	754	F	RunNo: 7	0388				
Prep Date:	7/16/2020	Analysis D	Date: 7/	16/2020	S	SeqNo: 2	447699	Units: mg/#	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID:	LCS-53754	SampT	ype: Ics	5	Tes	tCode: El	PA Method	300.0: Anion	S		
Client ID:	LCSS	Batch	n ID: 53	754	F	RunNo: 7	0388				
Prep Date:	7/16/2020	Analysis D	Date: 7/	16/2020	S	SeqNo: 2	447700	Units: mg/k	٢g		
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-53761	SampType: mblk	TestCode: EPA Method	300.0: Anions	
Client ID: PBS	Batch ID: 53761	RunNo: 70388		
Prep Date: 7/16/2020	Analysis Date: 7/16/2020	SeqNo: 2447734	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride	ND 1.5			
Sample ID: LCS-53761	SampType: Ics	TestCode: EPA Method	300.0: Anions	
Sample ID: LCS-53761 Client ID: LCSS	SampType: Ics Batch ID: 53761	TestCode: EPA Method RunNo: 70388	300.0: Anions	
Sample ID: LCS-53761 Client ID: LCSS Prep Date: 7/16/2020	SampType: Ics Batch ID: 53761 Analysis Date: 7/16/2020	TestCode: EPA Method RunNo: 70388 SeqNo: 2447735	300.0: Anions Units: mg/Kg	
Sample ID: LCS-53761 Client ID: LCSS Prep Date: 7/16/2020 Analyte	SampType: Ics Batch ID: 53761 Analysis Date: 7/16/2020 Result PQL SPK value	TestCode: EPA Method RunNo: 70388 SeqNo: 2447735 SPK Ref Val %REC LowLimit	300.0: Anions Units: mg/Kg HighLimit %RPD	RPDLimit Qual

Qualifiers:

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

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

Page 22 of 29

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:	Safety & I	Environme Maduro 6	ental So	olutions							
Toject.	Durango i	viauui0 0		Jylane							
Sample ID:	MB-53669	SampT	ype: MI	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID:	PBS	Batch	n ID: 53	669	R	RunNo: 7	0308				
Prep Date:	7/13/2020	Analysis D	ate: 7/	14/2020	S	SeqNo: 24	443932	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
iesel Range C	Organics (DRO)	ND	10								
Iotor Oil Rang	ge Organics (MRO)	ND 12	50	10.00		104	EE 1	146			
Sull. DNOP		12		10.00		124	55.1	140			
Sample ID:	MB-53683	SampT	ype: MI	BLK	Tes	tCode: Ef	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID:	PBS	Batch	n ID: 53	683	R	RunNo: 7	0308				
Prep Date:	7/13/2020	Analysis D	ate: 7/	14/2020	S	SeqNo: 24	443933	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
iesel Range (Organics (DRO)	ND	10								
lotor Oil Rang	ge Organics (MRO)	ND	50								
Surr: DNOP		12		10.00		120	55.1	146			
Sample ID:	LCS-53669	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID:	LCSS	Batch	n ID: 53	669	R	RunNo: 7	0308				
Prep Date:	7/13/2020	Analysis D	ate: 7/	14/2020	S	SeqNo: 24	443934	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
iesel Range (Organics (DRO)	59	10	50.00	0	119	70	130			
Surr: DNOP		5.5		5.000		110	55.1	146			
Sample ID:	2007553-006AMS	SampT	ype: M	6	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID:	AH-6 Surface	Batch	n ID: 53	683	R	RunNo: 7	0309				
Prep Date:	7/13/2020	Analysis D	ate: 7/	14/2020	S	SeqNo: 24	443948	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
iesel Range (Organics (DRO)	62	8.8	44.17	9.880	118	47.4	136			
Surr: DNOP		6.3		4.417		142	55.1	146			
Sample ID:	2007553-006AMSD	SampT	ype: M	SD	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID:	AH-6 Surface	Batch	n ID: 53	683	R	RunNo: 7	0309				
Client ID: Prep Date: Analyte Diesel Range (Surr: DNOP	AH-6 Surface 7/13/2020 Organics (DRO)	Batch Analysis D Result 62 6.3	Di ID: 53 Pate: 7/ PQL 8.8	683 114/2020 SPK value 44.17 4.417	SPK Ref Val 9.880	RunNo: 70 SeqNo: 20 %REC 118 142	0309 443948 LowLimit 47.4 55.1	Units: mg/K HighLimit 136 146	g %RPD	RPDLimit	C

Prep Date: 7/13/2020	Analysis D	ate: 7/	14/2020	S	eqNo: 24	443949	Units: mg
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit
Diesel Range Organics (DRO)	64	10	49.80	9.880	109	47.4	136
Surr: DNOP	6.5		4.980		131	55.1	146

Qualifiers:

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

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

%RPD

3.01

0

RPDLimit

43.4

0

Qual

2007553

20-Jul-20

4.2

Client: Safety & Environmental Solutions Project: Durango Maduro 6 inch Polylane											
Sample ID: LCS-53683 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics											
Client ID: LCSS	683	F	unNo: 7	0308							
Prep Date: 7/13/2020	Analysis D	Date: 7/	14/2020	S	eqNo: 2	444211	Units: mg/K	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	49	10	50.00	0	97.9	70	130				

84.9

55.1

146

5.000

Qualifiers:

Surr: DNOP

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

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

2007553

20-Jul-20

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client:Safety &Project:Durange	2 Environme 9 Maduro 6 i	ntal So nch Po	lutions lylane								
Sample ID: mb-53657	SampTy	/pe: ME	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e		
Client ID: PBS	Batch	ID: 53	657	F	RunNo: 7	0338					
Prep Date: 7/12/2020	Analysis Da	ate: 7/	14/2020	S	SeqNo: 24	444548	Units: mg/K	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	ND	5.0									
Surr: BFB	910		1000		91.2	66.6	105				
Sample ID: Ics-53657	SampTy	/pe: LC	S	Tes	tCode: El	PA Method	8015D: Gasc	line Rang	e		
Client ID: LCSS	Batch	ID: 53	657	F	RunNo: 7	0338					
Prep Date: 7/12/2020	Analysis Da	ate: 7/	14/2020	S	SeqNo: 24	444549	Units: mg/K	íg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	26	5.0	25.00	0	104	80	120				
Surr: BEB	1000		1000		102	66.6	105				

Qualifiers:

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

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

Page 25 of 29

2007553

20-Jul-20

C.C. O.E.

CI!......

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

. . 1 0 . 1 . .

Project: Dura	y & Environni 1go Maduro 6	inch Po	olylane							
Comple ID: mb 52657	-			Taa	tCada, E	DA Mathad	0004 D. V	4100		
Sample ID: mb-53657	Samp	Type: ME	SLN	Tes		PA Method	8021B: Vola	llies		
Client ID: PBS	Batc	h ID: 53	657	F	RunNo: 7	0338				
Prep Date: 7/12/2020	Analysis I	Date: 7/	14/2020	S	SeqNo: 2	444596	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		105	80	120			
Sample ID: LCS-53657	Samp	Type: LC	S	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batc	h ID: 53	657	F	RunNo: 7	0338				
Prep Date: 7/12/2020	Analysis [Date: 7/	14/2020	5	SeqNo: 2	444597	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	95.9	80	120			
Toluene	0.96	0.050	1.000	0	96.0	80	120			
Ethylbenzene	0.97	0.050	1.000	0	96.6	80	120			
Xylenes, Total	2.9	0.10	3.000	0	98.1	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		109	80	120			

Qualifiers:

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

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

Page 26 of 29

.

2007553

20-Jul-20

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client:Safety &Project:Durango	Environm Maduro 6	ental So inch Po	olutions Iylane							
Sample ID: mb-53676	Samp	Туре: МЕ	BLK	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Client ID: PBS	Batc	h ID: 53	676	R	unNo: 7	0347				
Prep Date: 7/13/2020	Analysis I	Date: 7/	14/2020	S	eqNo: 24	144960	Units: mg/K	g		
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: 1,2-Dichloroethane-d4	0.55		0.5000		110	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		96.6	70	130			
Surr: Dibromofluoromethane	0.54		0.5000		108	70	130			
Surr: Toluene-d8	0.54		0.5000		107	70	130			
Sample ID: Ics-53676	Samp	Type: LC	S4	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Client ID: BatchQC	Batc	h ID: 53	676	R	lunNo: 7	0347				
Prep Date: 7/13/2020	Analysis [Date: 7/	14/2020	S	eqNo: 24	44961	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	104	80	120			
Toluene	1.0	0.050	1.000	0	103	80	120			
Ethylbenzene	1.1	0.050	1.000	0	106	80	120			
Xylenes, Total	3.3	0.10	3.000	0	109	80	120			
Surr: 1,2-Dichloroethane-d4	0.50		0.5000		99.3	70	130			
Surr: 4-Bromofluorobenzene	0.46		0.5000		92.6	70	130			
Surr: Dibromofluoromethane	0.50		0.5000		101	70	130			
Surr: Toluene-d8	0.53		0.5000		107	70	130			
Sample ID: 2007553-017ams	Samp	Туре: М	6	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Client ID: AH-16 5ft	Batc	h ID: 53	676	R	lunNo: 7	0347				
Prep Date: 7/13/2020	Analysis [Date: 7/	14/2020	S	eqNo: 24	445621	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.024	0.9737	0	121	70	130			
Toluene	1.1	0.049	0.9737	0	110	70	130			
Surr: 1,2-Dichloroethane-d4	0.52		0.4869		107	70	130			
Surr: 4-Bromofluorobenzene	0.46		0.4869		93.8	70	130			
Surr: Dibromotluoromethane	0.53		0.4869		109	70	130			
Surr: Toluene-d8	0.50		0.4869		102	70	130			
Sample ID: 2007553-017amsd	Samp	Туре: МS	SD	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Client ID: AH-16 5ft	Batc	h ID: 53	676	R	lunNo: 7	0347				
Prep Date: 7/13/2020	Analysis [Date: 7/	14/2020	S	eqNo: 24	445622	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
o										

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

.

2007553

20-Jul-20

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client:Safety &Project:Durango	Environmo Maduro 6	ental So inch Po	olutions olylane							
Sample ID: 2007553-017amsc	d SampT	ype: MS	SD	Tes	tCode: El	PA Method	8260B: Volati	les Short	List	
Client ID: AH-16 5ft	Batch	n ID: 53	676	R	unNo: 7	0347				
Prep Date: 7/13/2020	Analysis D	ate: 7/	14/2020	S	eqNo: 2	445622	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.024	0.9709	0	115	70	130	5.89	20	
Toluene	1.0	0.049	0.9709	0	108	70	130	2.66	20	
Surr: 1,2-Dichloroethane-d4	0.51		0.4854		105	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.45		0.4854		91.9	70	130	0	0	
Surr: Dibromofluoromethane	0.53		0.4854		108	70	130	0	0	
Surr: Toluene-d8	0.50		0.4854		103	70	130	0	0	
Sample ID: mb-53710	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8260B: Volati	les Short	List	
Client ID: PBS	Batch	n ID: 53	710	R	lunNo: 7	0377				
Prep Date: 7/14/2020	Analysis D	ate: 7/	15/2020	S	eqNo: 2	446234	Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.53		0.5000		107	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.5000		93.1	70	130			
Surr: Dibromofluoromethane	0.52		0.5000		105	70	130			
Surr: Toluene-d8	0.53		0.5000		107	70	130			
Sample ID: Ics-53710	SampT	ype: LC	S4	Tes	tCode: El	PA Method	8260B: Volati	les Short	List	
Client ID: BatchQC	Batch	n ID: 53	710	R	lunNo: 7	0377				
Prep Date: 7/14/2020	Analysis D	ate: 7/	15/2020	S	eqNo: 24	446235	Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.53		0.5000		105	70	130			
Surr: 4-Bromofluorobenzene	0.46		0.5000		92.4	70	130			
Surr: Dibromofluoromethane	0.53		0.5000		105	70	130			
Surr: Toluene-d8	0.52		0.5000		103	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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

2007553

20-Jul-20

C.C. 0 E.

A

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

. 10.1 .

•

Chent: Project:	Durango I	Environme Maduro 6	inch Po	olylane							
Sample ID:	mb-53676	SampT	ype: MI	BLK	Tes	tCode: EF	PA Method	8015D Mod: 0	Gasoline	Range	
Client ID:	PBS	Batch	n ID: 53	676	F	RunNo: 7(0347				
Prep Date:	7/13/2020	Analysis D	ate: 7/	14/2020	S	SeqNo: 24	445114	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang Surr: BFB	ge Organics (GRO)	ND 500	5.0	500.0		99.7	70	130			
Sample ID:	lcs-53676	SampT	ype: LC	s	Tes	tCode: EF	PA Method	8015D Mod: 0	Gasoline	Range	
Client ID:	LCSS	Batch	n ID: 53	676	F	RunNo: 7()347				
Prep Date:	7/13/2020	Analysis D	ate: 7/	14/2020	S	SeqNo: 24	445115	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	20	5.0	25.00	0	79.1	70	130			
Surr: BFB		470		500.0		94.6	70	130			
Sample ID:	2007553-018ams	SampT	ype: M	3	Tes	tCode: EF	PA Method	8015D Mod: 0	Gasoline	Range	
Client ID:	AH-17 5ft	Batch	n ID: 53	676	F	RunNo: 7()347				
Prep Date:	7/13/2020	Analysis D	ate: 7/	14/2020	S	SeqNo: 24	445631	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	21	4.7	23.72	0	87.4	70	130			
SULL: RER		450		474.4		94.0	70	130			
Sample ID:	2007553-018amsd	SampT	уре: М	SD	Tes	tCode: EF	PA Method	8015D Mod: (Gasoline	Range	
Client ID:	AH-17 5ft	Batch	n ID: 53	676	F	RunNo: 7(0347				
Prep Date:	7/13/2020	Analysis D	ate: 7/	14/2020	S	SeqNo: 24	445632	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	21	4.8	24.02	0	86.6	70	130	0.276	20	
Surr: BFB		450		480.3		93.0	70	130	0	0	
Sample ID:	: mb-53710	SampT	ype: MI	BLK	Tes	tCode: EF	PA Method	8015D Mod: 0	Gasoline	Range	
Client ID:	PBS	Batch	n ID: 53	710	F	RunNo: 7(0377				
Prep Date:	7/14/2020	Analysis D	ate: 7/	15/2020	S	SeqNo: 24	146257	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		500		500.0		100	70	130			
Sample ID:	: lcs-53710	SampT	ype: LC	s	Tes	tCode: EF	PA Method	8015D Mod: 0	Gasoline	Range	
Sample ID: Client ID:	LCSS	SampT Batch	ÿpe: LC n ID: 53	:S 710	Tes F	tCode: EF RunNo: 7(PA Method 0377	8015D Mod: (Gasoline	Range	
Sample ID: Client ID: Prep Date:	: Ics-53710 LCSS 7/14/2020	SampT Batch Analysis D	ÿpe: LC n ID: 53 Date: 7/	:S 710 /15/2020	Tes F S	tCode: EF RunNo: 7(SeqNo: 24	PA Method 0377 146258	8015D Mod: (Units: %Rec	Basoline	Range	
Sample ID: Client ID: Prep Date: Analyte	: lcs-53710 LCSS 7/14/2020	SampT Batch Analysis D Result	Type: LC n ID: 53 Date: 7 / PQL	:S 710 /15/2020 SPK value	Tes F S SPK Ref Val	tCode: EF RunNo: 7(SeqNo: 24 %REC	PA Method 0377 446258 LowLimit	8015D Mod: (Units: %Rec HighLimit	Gasoline (%RPD	Range RPDLimit	Qual

Qualifiers:

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

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

2007553

20-Jul-20

Received by OCD: 12/1/2020 3:13:28 PM

HALL ENVIRG ANALY LABOR	DNMENTAL SIS Atory	Mail Envariante 1815 - 303-345-, Walistie: chem	ntal Analysis Labo 49111 Hawki Albuanergne, NM 1975 FAX: 505-345 whalienvironmenta	unuy us NE 87109 San -4107 Leum	mple Log-In Check List			
Client Name:	Safety & Environmental S	Work Order Num	ber: 2007553		ReptNo	5: 1		
Received By	Isaiah Ortiz	7/11/2020 7:10:00	AM	24	-			
Completed By: Reviewed By	Isalah Ortiz	7/11/2020 8:17:21 Fluitzo 20	AM	2-6	2			
Chain of Custo	ody							
1. Is Chain of Cus	stady complete?		Yes V	No 🗔	Not Present			
2 How was the sa	ample delivered?		Courier					
Log In			Seco					
o. Was an altemp	made to cool the samples?		Yes ⊻	No	NA			
4. Were all sample	as received at a temperature	ot ⇒0° C to 6.0°C	Yes 🕅	No 🗔	NA L			
5 Sample(s) in pr	oper container(s)?		Yes M	No T				
6. Sufficient sampl	e volume for indicated lest(s)	2	Yes 🔽	No:				
7. Are samples (ex	cept VOA and ONG) property	y presarved?	Yes 🔽	No 🗔				
5. Was preservativ	e added to bottles?		Yes 🗖	No. 🗹	NA T			
9. Received at leas	st 1 vial with headspace <1/4	for AQ VOA?	Yes	No 🗔	NA 🗹	-		
0. Were any samp	le containers récélved broke	17	Yes	No 🗹	# of preserved			
1. Does paperwork (Note discrepant	match bottle labels?		Yes 🗹	No 🗆	for pH	7.)11(7.)		
2, Are matrices cor	rectly identified on Chain of (Custody?	Yes 🔽	No 🗔	Adjusted?	in annual round)		
3_ Is it clear what a	nalyses were requested?		Yes	No.		~		
4 Were all holding (If no, notify cust	times able to be met? tomer for authorization.)		Yes 🗹	No 🗆	Checked by	-		
pecial Handlin	g (if applicable)							
5. Was client notifi	red of all discrepancies with t	his order?	Yes L	No 🗔	NA Z			
Person No	otified	Date:						
By Whom		Via	🗌 eMail 🔲 P	hone T Fax	In Person			
Regarding	6							
Client Inst	ructions.							
6. Additional rema	arks:							
7. <u>Cooler Informa</u> Cooler No	ation Temp °C Condition Se 3.4 Good Not	al Intact Seal No Present	Seal Date	Signed By				

Page 1 of 1

ent: So alling Address Abbly Address Abbly Address Address Standard Creditation: NELAC NELAC NELAC NELAC NELAC NELAC NELAC	A THE BER BER STANDAR	ustody Record SULUTION MALA RECUMPANIANA RECONTRAN	Iurn-Around Project Nam Project Nam Project Man Project Man Project Man Project Man Project Man Project and #	Beer: DIAD 6"	Ally live Bly live Bl		8081 Pesticides/8082 PCB's	JA [§] ^(1,403 bontem) BU3 – SMIS0728 to 0158 vd aHA9	RCRA 8 Metals 3375	KAOV-imeR) 0728 (AOV-imeR) 0728		ATORY
5411	MU	At 10 Sween	1		010			+++			-	
Shall 8	nn	Art-10 150	1		0110	X		-				
Time: Time	Relipedus	ind bar	Received by: Received by:	Via	Date Time 7/16/20 0130	Remark	, iš	-			Z	-

Client:	Sal	-1	ENULA	Record	Tum-Aroun	d D Rus	frac 4			ALL	EN	VIR	ONME	NTAL
Mailing	Address	strules	and SS of C	Lintral	Project Nan	MICULTUR	ind place			www.ha	lenviro	menta	Loom	I OK
Phone :	2 mps	N.M.	8824	0	Project #:	12-20.	100-	Tel.	505-34	5-3975	Fax	505-3	NIM 87109 45-4107	
email o	r Fax#:				Project Man	ager:		(0		-	1		(1	
QA/QC	Package idard		C Level 4	(Full Validation)	AU	AL MO	90	1208) s MRC	sand	SMIS	DS "∕Od		uəsayı	
Accredi	itation: AC	D Az C	ampliance. r		Sampler. On Ice:	A N Ser	- Ma	1 1 8MT 8MT	(1.50	07281	*ZON	(}	J Uəsəl,	
D EDD	(Type)				# of Coolers	1 -	2	ово ово) Зе 	ng p	S 8:	·°0	101	7	
					Cooler Tem	Dincluding CF)	01-1-12/2/2/2	ITM ITM	Vetho	58 V	(AO)	-ima	Notio	
Date	Timo	Matrix	Sample N	lame	Container Type and #	Preservative Type	TOTAL No. 3	81EX /	N) 803	ARAS ARAS	31' E' F	s) 0758	200	
80/10	1310	Ņ	144-12	Super-	-	200	A12	XX	1	4	3	3		
)	1330	S	144-13	Super	-		210			-	-		-	
~	1350	N	4414	Super	1		015				+			
80//	1420	5	1-44-15	anter.	1		016			-	-			
7/09	0250	V	AH-16	5.5	1		017				-	1		
)	2101	N	AH-17	59)		018				-			
-	1125	5	A+-18	Soul Lie	1		019			F	+			
~	1250	5	AH 19	19	1		020	1			-			
1/04	1340	5	414-20	Surfere	1		120	X					X	
											-			
Date Olio	OQ(Q	Relinques	In Level		Received by	Vig	Date Time 7//c/10 0/5	Remarks:			-		-	
Distant 1 10 10	Time:	Refinquish	M M M A	~	Received by	Nia An	Date Time							



August 11, 2020

Bob Allen Safety & Environmental Solutions PO Box 1613 Hobbs, NM 88241 TEL: (575) 397-0510 FAX: (575) 393-4388

RE: Durango Maduro 6 Polyline

OrderNo.: 2007F87

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: clients.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 2 sample(s) on 7/31/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Lab ID:

Analytical Report Lab Order 2007F87

Date Reported: 8/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

2007F87-001

Durango Maduro 6 Polyline

Client Sample ID: SP-17 12ft Collection Date: 7/30/2020 10:15:00 AM Received Date: 7/31/2020 9:55:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	60	mg/Kg	20	8/5/2020 10:38:48 PM	54193
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/6/2020 12:22:56 PM	54150
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	8/6/2020 12:22:56 PM	54150
Surr: DNOP	90.7	30.4-154	%Rec	1	8/6/2020 12:22:56 PM	54150
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/3/2020 5:33:43 PM	54104
Surr: BFB	101	75.3-105	%Rec	1	8/3/2020 5:33:43 PM	54104
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.025	mg/Kg	1	8/3/2020 5:33:43 PM	54104
Toluene	ND	0.049	mg/Kg	1	8/3/2020 5:33:43 PM	54104
Ethylbenzene	ND	0.049	mg/Kg	1	8/3/2020 5:33:43 PM	54104
Xylenes, Total	ND	0.098	mg/Kg	1	8/3/2020 5:33:43 PM	54104
Surr: 4-Bromofluorobenzene	103	80-120	%Rec	1	8/3/2020 5:33:43 PM	54104

Matrix: SOIL

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

Qualifiers:

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

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

Page 1 of 6

Lab ID:

Analytical Report
Lab Order 2007F87

Date Reported: 8/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

2007F87-002

Durango Maduro 6 Polyline

Client Sample ID: SP-19 10ft Collection Date: 7/30/2020 11:30:00 AM Received Date: 7/31/2020 9:55:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	69	60	mg/Kg	20	8/5/2020 10:51:09 PM	54193
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	8/6/2020 12:32:47 PM	54150
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	8/6/2020 12:32:47 PM	54150
Surr: DNOP	96.9	30.4-154	%Rec	1	8/6/2020 12:32:47 PM	54150
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/3/2020 5:57:18 PM	54104
Surr: BFB	102	75.3-105	%Rec	1	8/3/2020 5:57:18 PM	54104
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.025	mg/Kg	1	8/3/2020 5:57:18 PM	54104
Toluene	ND	0.049	mg/Kg	1	8/3/2020 5:57:18 PM	54104
Ethylbenzene	ND	0.049	mg/Kg	1	8/3/2020 5:57:18 PM	54104
Xylenes, Total	ND	0.099	mg/Kg	1	8/3/2020 5:57:18 PM	54104
Surr: 4-Bromofluorobenzene	105	80-120	%Rec	1	8/3/2020 5:57:18 PM	54104

Matrix: SOIL

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

Qualifiers:

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

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

Page 2 of 6

Client: Project:	Safe Dur	ety & Environme ango Maduro 6	ental So Polylin	olutions e							
Sample ID:	MB-54193	SampT	ype: m ł	olk	Tes	tCode: EF	PA Method	300.0: Anion	s		
Client ID:	PBS	Batch	n ID: 54	193	F	RunNo: 7(0844				
Prep Date:	8/5/2020	Analysis D)ate: 8/	5/2020	S	SeqNo: 24	467763	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID:	LCS-54193	SampT	ype: Ics	5	Tes	tCode: EF	PA Method	300.0: Anion	s		
Client ID:	LCSS	Batch	ו ID: 54	193	F	RunNo: 7(0844				
Prep Date:	8/5/2020	Analysis D)ate: 8/	5/2020	S	SeqNo: 24	467765	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	93.0	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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

Page 3 of 6

2007F87

11-Aug-20

Client:

Safety & Environmental Solutions

atory, Inc.	WO#: 2007F87 11-Aug-20

Project:	Durango Maduro	6 Polylin	e							
Sample ID: LCS-54	150 Sam	pType: LC	s	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID: LCSS	Bat	tch ID: 54	150	F	RunNo: 7	0894				
Prep Date: 8/4/20	Analysis	Date: 8/	6/2020	S	SeqNo: 24	469094	Units: mg/h	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO) 48	10	50.00	0	96.9	70	130			
Surr: DNOP	4.3		5.000		86.3	30.4	154			
Sample ID: MB-541	I 50 Sam	pType: M I	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	e Organics	
Sample ID: MB-541 Client ID: PBS	I 50 Sam Ba	pType: M I tch ID: 54	BLK 150	Tes F	tCode: El RunNo: 7 (PA Method 0894	8015M/D: Di	esel Range	e Organics	
Sample ID: MB-541 Client ID: PBS Prep Date: 8/4/20	150 Sam Bai 20 Analysis	pType: M I tch ID: 54 Date: 8	BLK 150 /6/2020	Tes F	tCode: EF RunNo: 70 SeqNo: 24	PA Method 0894 469097	8015M/D: Die Units: mg/H	esel Range	e Organics	
Sample ID: MB-541 Client ID: PBS Prep Date: 8/4/20 Analyte	150 Sam Ba 120 Analysis Result	pType: M I tch ID: 54 Date: 8 PQL	BLK 150 /6/2020 SPK value	Tes F SPK Ref Val	tCode: EI RunNo: 70 SeqNo: 24 %REC	PA Method 0894 469097 LowLimit	8015M/D: Die Units: mg/K HighLimit	esel Range (g %RPD	e Organics	Qual
Sample ID: MB-541 Client ID: PBS Prep Date: 8/4/20 Analyte Diesel Range Organics (I	150 Sam Bai 120 Analysis Result DRO) ND	pType: M I tch ID: 54 Date: 8 PQL 10	BLK 150 /6/2020 SPK value	Tes F S SPK Ref Val	tCode: El RunNo: 7 SeqNo: 2 %REC	PA Method 0894 469097 LowLimit	8015M/D: Die Units: mg/F HighLimit	esel Range (g %RPD	e Organics	Qual
Sample ID: MB-541 Client ID: PBS Prep Date: 8/4/20 Analyte Diesel Range Organics (Motor Oil Range Organic	150 Sam Bai 120 Analysis Result DRO) ND is (MRO) ND	pType: M tch ID: 54 Date: 8 PQL 10 50	BLK 150 /6/2020 SPK value	Tes F S SPK Ref Val	tCode: El RunNo: 7 GeqNo: 2 %REC	PA Method 0894 469097 LowLimit	8015M/D: Die Units: mg/F HighLimit	esel Range (g %RPD	e Organics	Qual

Qualifiers:

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

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

Page 4 of 6

.

Client: Safety & Project: Durange	2 Environm 2 Maduro 6	ental So Polylin	olutions e								
Sample ID: mb-54104	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e		
Client ID: PBS	Batch	n ID: 54	104	F	RunNo: 7	0797					
Prep Date: 8/1/2020	Analysis D	0ate: 8/	3/2020	5	SeqNo: 24	464423	Units: mg/K	íg			
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		100	75.3	105				
Sample ID: Ics-54104	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D: Gasc	line Rang	e		
Client ID: LCSS	Batch	n ID: 54	104	F	RunNo: 7	0797					
Prep Date: 8/1/2020	Analysis D	0ate: 8/	3/2020	5	SeqNo: 24	464424	Units: mg/K	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	23	5.0	25.00	0	92.4	72.5	106				
Surr: BFB	1100		1000		112	75.3	105			S	

Qualifiers:

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

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

Page 5 of 6

2007F87

11-Aug-20

Client: Project:	Safety & Enviror Durango Maduro	nmental So 6 Polylin	olutions							
Sample ID: mb-54				Tos	tCode: E	PA Method	8021B: Volat	ilos		
	1 0 4 3a			163				lies		
Client ID: PBS	В	atch ID: 54	104	F	RunNo: 7	0/9/				
Prep Date: 8/1/2	020 Analys	s Date: 8/	/3/2020	5	SeqNo: 24	464471	Units: mg/K	g		
Analyte	Resu	t PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	N	0.025								
Toluene	N	0.050								
Ethylbenzene	N	0.050								
Xylenes, Total	N	0.10								
Surr: 4-Bromofluorob	enzene 1.)	1.000		105	80	120			
Sample ID: LCS-5	4104 Sar	npType: LC	s	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: LCSS	В	atch ID: 54	104	F	RunNo: 7	0797				
Prep Date: 8/1/2	020 Analys	is Date: 8/	/3/2020	S	SeqNo: 24	464472	Units: mg/K	g		
Analyte	Resu	t PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.9	4 0.025	1.000	0	93.8	80	120			
Toluene	0.9	5 0.050	1.000	0	95.2	80	120			
Ethylbenzene	0.9	6 0.050	1.000	0	95.9	80	120			
Xylenes, Total	2.	9 0.10	3.000	0	96.9	80	120			
Surr: 4-Bromofluorob	enzene 1.	1	1.000		111	80	120			

Qualifiers:

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

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

Page 6 of 6

2007F87

11-Aug-20

•

HALL ENVIRONMENTAL ANALYSIS LABORATORY		Hall Enviro TEL: 505- Website: o	onmental Analysi 4901 Albuquerqu 345-3975 FAX: 5 clients.hallenvirc	s Laboratory Hawkins NE e, NM 87109 05-345-4107 nmental.com	^y Sample Log-In Check List				
Client Name:	Safety & Environmental Solutions	Work Order	Number: 2007	-87		RcptNo:	1		
Received By:	Emily Mocho	7/31/2020	q:65 Am	Em 7	131120				
Completed By:	Emily Mocho	7/31/2020 10:4	1:03 AM						
Reviewed By:	SPA 73	.20 1	1:30						
Chain of Cust	ody								
1. Is Chain of Cu	stody complete?		Yes	\checkmark	No 🗌	Not Present			
2. How was the s	ample delivered?								
Log In		- 2							
o. was an attemp	ot made to cool the sample	5?	Yes	Y		NA 🛄			
4. Were all sample	les received at a temperatu	re of >0° C to 6.0°(C Yes	\checkmark	No 🗌				
5. Sample(s) in p	roper container(s)?		Yes	✓	No 🗌				
6. Sufficient samp	ble volume for indicated tes	t(s)?	Yes		No 🗆				
7. Are samples (e	xcept VOA and ONG) prop	erly preserved?	Yes		No 🗌				
8. Was preservati	ve added to bottles?		Yes		No 🗹	NA 🗆			
9. Received at lea	ast 1 vial with headspace <	1/4" for A Q VOA?	Yes [No 🗀	NA 🗹			
10. Were any sam	ple containers received bro	oken?	Yes		No 🗹	# of preserved	/		
11. Does paperwor (Note discrepa	k match bottle labels?		Yes		No 🗆	bottles checked for pH: (<2 or	>12 unless noted)		
12 Are matrices co	prrectly identified on Chain	of Custody?	Yes		No 🗌	Adjusted?			
13. Is it clear what	analyses were requested?		Yes		No 🗆				
14. Were all holdin (If no, notify cu	g times able to be met? stomer for authorization.)		Yes		No 🗆	Checked by:	12713112		
Special Handli	ng (if applicable)								
15. Was client not	ified of all discrepancies wi	th this order?	Yes		No 🗌	NA 🗹			
Person N	Notified:		Date:						
By Whor	n:		Via: 🗍 eMai	[] Phone	e 🗌 Fax	In Person			
Regardir	ng:								
Client In	structions:				· ·				
16. Additional ren	narks:						,		
17. <u>Cooler Inform</u> Cooler No	nation │ Temp ºC │ Condition │	Seal Intact Seal	No Seal Da	te Sigr	ied By	4			
1	3.3 Good								

HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request	Image: Second Solution Image: Second Solution Second Solution Second Solution Solid Pesticides/8082 PCB's Solid Pesticides/8082 PCB's <th></th> <th></th> <th></th> <th>Remarks:</th> <th>of this possibility. Any sub-contracted data will be clearly notated on the analytical report.</th>				Remarks:	of this possibility. Any sub-contracted data will be clearly notated on the analytical report.
Turn-Around Time: 5 Davk Froject Name: DUr2440 Madura 6 "Poly Win Project #: DUR-19-002	Project Manager: Project Manager: Sampler: DD On Ice: D Yes On Ice: D Yes Monther: S-4-D-1=3-3 (°C Cooler Temp(metuding.CF): S-4-D-1=3-3 (°C Cooler Temp(metuding.CF): S-4-D-1=3-3 (°C Container Preservative HEAL No. Type and # Type	1 Ju - 201	1 - 002		Received by: Via: Date Time	Received by: Via: Date Time $\mathcal{C}\mathcal{U}\mathcal{W}$ $\mathcal{U}\mathcal{U}\mathcal{U}\mathcal{L}\mathcal{U}$ $\mathcal{U}\mathcal{U}\mathcal{U}\mathcal{U}\mathcal{U}\mathcal{U}$ $\mathcal{U}\mathcal{U}\mathcal{U}\mathcal{U}$
Client Custody Record Client June & GAULAMARA Mailing Address: 703 & CLINTRAL Mailing Address: 703 & CLINTRAL	email or Fax#: QA/QC Package: Candard	0/20 1015 5 5R.17 1254			Date: Time: Relinquished by:	Parte: Late: Religeuished by: Date: Imme: Religeuished by: App An United to Hall Environmental may be subco



November 02, 2020

Bob Allen Safety & Environmental Solutions PO Box 1613 Hobbs, NM 88241 TEL: (575) 397-0510 FAX: (575) 393-4388

RE: Durango Maduro 6" Polyline

OrderNo.: 2010B90

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: clients.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 6 sample(s) on 10/27/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Date Reported: 11/2/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental SolutionsClient Sample ID: SP-20 North WallProject: Durango Maduro 6" PolylineCollection Date: 10/26/2020 9:35:00 AMLab ID: 2010B90-001Matrix: SOILReceived Date: 10/27/2020 11:40:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	150	60	mg/Kg	20	10/30/2020 8:32:28 PM	56124
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	11	9.9	mg/Kg	1	10/28/2020 3:47:53 PM	56068
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/28/2020 3:47:53 PM	56068
Surr: DNOP	101	30.4-154	%Rec	1	10/28/2020 3:47:53 PM	56068
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/28/2020 10:13:42 AM	1 56063
Surr: BFB	97.1	75.3-105	%Rec	1	10/28/2020 10:13:42 AN	1 56063
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.025	mg/Kg	1	10/28/2020 10:13:42 AM	1 56063
Toluene	ND	0.050	mg/Kg	1	10/28/2020 10:13:42 AN	1 56063
Ethylbenzene	ND	0.050	mg/Kg	1	10/28/2020 10:13:42 AN	1 56063
Xylenes, Total	ND	0.099	mg/Kg	1	10/28/2020 10:13:42 AN	1 56063
Surr: 4-Bromofluorobenzene	109	80-120	%Rec	1	10/28/2020 10:13:42 AN	1 56063

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

Qualifiers:

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

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

Page 1 of 10

Date Reported: 11/2/2020

Hall Environmental Analysis Laboratory, Inc.

 CLIENT: Safety & Environmental Solutions
 Client Sample ID: SP-21 South Wall

 Project: Durango Maduro 6" Polyline
 Collection Date: 10/26/2020 10:00:00 AM

 Lab ID: 2010B90-002
 Matrix: SOIL
 Received Date: 10/27/2020 11:40:00 AM

 Analyses
 Result
 RL
 Ougl Units
 DE
 Date Analyzed
 Batch

Analyses	Kesuit	KL Q	ual Units	DI	Date Analyzeu	Datti
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	140	60	mg/Kg	20	10/30/2020 9:09:43 PM	56124
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	BRM
Diesel Range Organics (DRO)	11	9.8	mg/Kg	1	10/28/2020 4:11:48 PM	56068
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/28/2020 4:11:48 PM	56068
Surr: DNOP	88.5	30.4-154	%Rec	1	10/28/2020 4:11:48 PM	56068
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/28/2020 11:24:47 AM	/ 56063
Surr: BFB	98.8	75.3-105	%Rec	1	10/28/2020 11:24:47 AM	1 56063
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.025	mg/Kg	1	10/28/2020 11:24:47 AM	/ 56063
Toluene	ND	0.050	mg/Kg	1	10/28/2020 11:24:47 AM	/ 56063
Ethylbenzene	ND	0.050	mg/Kg	1	10/28/2020 11:24:47 AM	/ 56063
Xylenes, Total	ND	0.10	mg/Kg	1	10/28/2020 11:24:47 AM	/ 56063
Surr: 4-Bromofluorobenzene	108	80-120	%Rec	1	10/28/2020 11:24:47 AM	/ 56063

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

Qualifiers:

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

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

Page 2 of 10

Date Reported: 11/2/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental SolutionsClient Sample ID: SP-22 North WallProject: Durango Maduro 6" PolylineCollection Date: 10/26/2020 10:35:00 AMLab ID: 2010B90-003Matrix: SOILReceived Date: 10/27/2020 11:40:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	ND	59	mg/Kg	20	10/30/2020 9:46:56 PM	56124
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	10/28/2020 4:35:49 PM	56068
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	10/28/2020 4:35:49 PM	56068
Surr: DNOP	79.6	30.4-154	%Rec	1	10/28/2020 4:35:49 PM	56068
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/28/2020 11:48:24 AM	1 56063
Surr: BFB	96.8	75.3-105	%Rec	1	10/28/2020 11:48:24 AN	1 56063
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.025	mg/Kg	1	10/28/2020 11:48:24 AN	1 56063
Toluene	ND	0.049	mg/Kg	1	10/28/2020 11:48:24 AN	1 56063
Ethylbenzene	ND	0.049	mg/Kg	1	10/28/2020 11:48:24 AN	1 56063
Xylenes, Total	ND	0.099	mg/Kg	1	10/28/2020 11:48:24 AN	1 56063
Surr: 4-Bromofluorobenzene	108	80-120	%Rec	1	10/28/2020 11:48:24 AN	1 56063

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

Qualifiers:

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

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

Page 3 of 10

Date Reported: 11/2/2020

Hall Environmental Analysis Laboratory, Inc.

 CLIENT: Safety & Environmental Solutions
 Client Sample ID: SP-23 South Wall

 Project: Durango Maduro 6" Polyline
 Collection Date: 10/26/2020 11:05:00 AM

 Lab ID: 2010B90-004
 Matrix: SOIL

 Received Date: 10/27/2020 11:40:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	CAS
Chloride	ND	60	mg/Kg	20	10/30/2020 9:59:21 PM	56124
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst:	BRM
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	10/28/2020 4:59:49 PM	56068
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/28/2020 4:59:49 PM	56068
Surr: DNOP	80.9	30.4-154	%Rec	1	10/28/2020 4:59:49 PM	56068
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/28/2020 12:12:10 PM	1 56063
Surr: BFB	98.1	75.3-105	%Rec	1	10/28/2020 12:12:10 PM	1 56063
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.023	mg/Kg	1	10/28/2020 12:12:10 PM	1 56063
Toluene	ND	0.047	mg/Kg	1	10/28/2020 12:12:10 PM	1 56063
Ethylbenzene	ND	0.047	mg/Kg	1	10/28/2020 12:12:10 PM	1 56063
Xylenes, Total	ND	0.093	mg/Kg	1	10/28/2020 12:12:10 PM	1 56063
Surr: 4-Bromofluorobenzene	109	80-120	%Rec	1	10/28/2020 12:12:10 PM	1 56063

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

Qualifiers:

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

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

Page 4 of 10

. Released to Imaging: 2/5/2021 9:49:31 AM

Date Reported: 11/2/2020

Hall Environmental Analysis Laboratory, Inc.

 CLIENT: Safety & Environmental Solutions
 Client Sample ID: SP-24 West Wall

 Project: Durango Maduro 6" Polyline
 Collection Date: 10/26/2020 11:50:00 AM

 Lab ID: 2010B90-005
 Matrix: SOIL
 Received Date: 10/27/2020 11:40:00 AM

 Analyses
 Result
 RL Qual Units
 DE Date Analyzed
 Batch

Analyses	Kesuit	KL Q	ual Units	DI	Date Allalyzeu	Datti
EPA METHOD 300.0: ANIONS					Analyst:	CAS
Chloride	ND	59	mg/Kg	20	10/30/2020 10:11:45 PN	/ 56124
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	10/28/2020 5:23:53 PM	56068
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	10/28/2020 5:23:53 PM	56068
Surr: DNOP	79.8	30.4-154	%Rec	1	10/28/2020 5:23:53 PM	56068
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/28/2020 12:35:51 PN	/ 56063
Surr: BFB	95.7	75.3-105	%Rec	1	10/28/2020 12:35:51 PN	1 56063
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.023	mg/Kg	1	10/28/2020 12:35:51 PN	/ 56063
Toluene	ND	0.047	mg/Kg	1	10/28/2020 12:35:51 PN	/ 56063
Ethylbenzene	ND	0.047	mg/Kg	1	10/28/2020 12:35:51 PN	/ 56063
Xylenes, Total	ND	0.093	mg/Kg	1	10/28/2020 12:35:51 PN	/ 56063
Surr: 4-Bromofluorobenzene	106	80-120	%Rec	1	10/28/2020 12:35:51 PN	/ 56063

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

Qualifiers:

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

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

Page 5 of 10

. Released to Imaging: 2/5/2021 9:49:31 AM

Date Reported: 11/2/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT:Safety & Environmental SolutionsClient Sample ID: SP-25 East WallProject:Durango Maduro 6" PolylineCollection Date: 10/26/2020 12:35:00 PMLab ID:2010B90-006Matrix: SOILReceived Date: 10/27/2020 11:40:00 AMAnalysesResultRL Qual UnitsDF Date AnalyzedBatch

EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	ND	59	mg/Kg	20	10/30/2020 10:24:10 PM 56124
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: BRM
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	10/28/2020 5:47:50 PM 56068
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/28/2020 5:47:50 PM 56068
Surr: DNOP	80.8	30.4-154	%Rec	1	10/28/2020 5:47:50 PM 56068
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/28/2020 12:59:30 PM 56063
Surr: BFB	96.0	75.3-105	%Rec	1	10/28/2020 12:59:30 PM 56063
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.023	mg/Kg	1	10/28/2020 12:59:30 PM 56063
Toluene	ND	0.047	mg/Kg	1	10/28/2020 12:59:30 PM 56063
Ethylbenzene	ND	0.047	mg/Kg	1	10/28/2020 12:59:30 PM 56063
Xylenes, Total	ND	0.093	mg/Kg	1	10/28/2020 12:59:30 PM 56063
Surr: 4-Bromofluorobenzene	107	80-120	%Rec	1	10/28/2020 12:59:30 PM 56063

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

Qualifiers:

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

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

Page 6 of 10

Client: Project:	Safety Durang	& Environmental Solutions go Maduro 6" Polyline							
Sample ID: M	B-54124	SampType: mblk	TestCode: EPA Method 300.0: Anions						
Client ID: PE	BS	Batch ID: 56124	RunNo: 73036						
Prep Date: 1	10/30/2020	Analysis Date: 10/30/2020	SeqNo: 2568678 Units: mg/Kg						
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual					
Chloride		ND 1.5							
Sample ID: LO	CS-54124	SampType: Ics	TestCode: EPA Method 300.0: Anions						
Client ID: LC	css	Batch ID: 56124	RunNo: 73036						
Prep Date: 1	10/30/2020	Analysis Date: 10/30/2020	SeqNo: 2568679 Units: mg/Kg						
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual					

•	
14 1.5 15.00 0 92.3 90 1	10

Qualifiers:

Chloride

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

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

Page 7 of 10

2010B90

02-Nov-20

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Safety Project: Duran	v & Environm 1go Maduro 6'	ental So " Polylii	olutions ne									
Sample ID: LCS-56068	SampT	Гуре: LC	S	Tes	tCode: El	PA Method	d 8015M/D: Diesel Range Organics					
Client ID: LCSS	Batc	h ID: 56	068	F	2977							
Prep Date: 10/27/2020	Analysis D	Date: 10)/28/2020	S	SeqNo: 2	565618	Units: mg/K	g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range Organics (DRO)	60	10	50.00	0	119	70	130					
Surr: DNOP	5.5		5.000		110	30.4	154					
Sample ID: MB-56068	SampT	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics			
Client ID: PBS	Batcl	h ID: 56	068	F	RunNo: 72	2977						
Prep Date: 10/27/2020	Analysis E	Date: 10)/28/2020	5	SeqNo: 2	565619	Units: mg/K	g				
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	11		10.00		110	30.4	154					

Qualifiers:

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

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

Page 8 of 10

2010B90

02-Nov-20

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:	Safety & Environmental Solutions Durango Maduro 6" Polyline										
Sample ID	: mb-56063	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Prep Date:	10/27/2020	Analysis Date: 10/28/2020			SeqNo: 2565863 Units: mg/Kg						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang Surr: BFB	ge Organics (GRO)	ND 940	5.0	1000		94.4	75.3	105			
Sample ID	: lcs-56063	Samp	SampType: LCS TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS		Batch ID: 56063			RunNo: 72986						
Prep Date:	10/27/2020	Analysis Date: 10/28/2020			SeqNo: 2565864 Units: mg/Kg				٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	21	5.0	25.00	0	82.9	72.5	106			
Surr: BFB		1000		1000		103	75.3	105			
Sample ID	ample ID: 2010b90-001ams SampType: MS				TestCode: EPA Method 8015D: Gasoline Range						
Client ID:	SP-20 North Wall	Batch ID: 56063			RunNo: 72986						
Prep Date:	10/27/2020	Analysis Date: 10/28/2020			SeqNo: 2565866			Units: mg/Kg			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	24	5.0	24.78	0	96.5	61.3	114			
Surr: BFB		1100		991.1		108	75.3	105			S
Sample ID: 2010b90-001amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range											
Client ID: SP-20 North Wall Batch ID: 56063				RunNo: 72986							
Prep Date:	10/27/2020 Analysis Date: 10/28/2020			SeqNo: 2565867 Units: mg/Kg				٤g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cacolino Dan											
Gasoline Ran	ge Organics (GRO)	24	5.0	24.75	0	96.6	61.3	114	0.0252	20	

Qualifiers:

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

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

RL Reporting Limit

2010B90

02-Nov-20
-

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client:	Safety & Enviro	onmental S	olutions							
Project:	Durango Madur	ro 6" Poly	ine							
Sample ID: mb-560	63 Sa	ampType: N	IBLK	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: PBS	I	Batch ID: 5	6063	F	RunNo: 7 2	2986				
Prep Date: 10/27/2	2020 Analy	sis Date: ·	0/28/2020	S	SeqNo: 2	565886	Units: mg/ #	٢g		
Analyte	Res	ult PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	Ν	D 0.02	5							
Toluene	Ν	D 0.05)							
Ethylbenzene	Ν	D 0.05)							
Xylenes, Total	Ν	D 0.1)							
Surr: 4-Bromofluoroben	zene 1	.1	1.000		106	80	120			
Sample ID: LCS-56)63 Sa	ampType: L	cs	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: LCSS	I	Batch ID: 5	6063	F	RunNo: 72	2986				
Prep Date: 10/27/2	2020 Analy	sis Date: ·	0/28/2020	S	SeqNo: 2	565887	Units: mg/ #	٢g		
Analyte	Res	ult PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.8	89 0.02	5 1.000	0	89.0	80	120			
Toluene	0.9	92 0.05	1.000	0	92.4	80	120			
Ethylbenzene	0.9	93 0.05	1.000	0	93.5	80	120			
Xylenes, Total	2		3.000	0	94.2	80	120			
Surr: 4-Bromofluoroben	zene 1	.1	1.000		106	80	120			

Qualifiers:

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

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

Page 10 of 10

2010B90

02-Nov-20

WO#:

Page	74	01	f 1	03
	· ·	~,	-	

HALL ENVIE ANAL LABO	RONMENTAL YSIS RATORY	Hall Environn TEL: 505-345 Website: clie	nental Analy 490 Albuquerq -3975 FAX: nts.hallenvii	sis Laborato 1 Hawkins N ue, NM 8710 505-345-411 onmental.co	NE 09 San 07	nple Log-In Check List
Client Name:	Safety & Environmental Solutions	Work Order Nu	mber: 2010	B90		RcptNo: 1
Received By:	Sean Livingston	10/27/2020 11:40	0:00 AM		Sal	John
Completed By:	Emily Mocho	10/27/2020 11:42	2:55 AM			<i>L</i>
Reviewed By:	ENM	10/27/20				
Chain of Cus	stody					
1. Is Chain of C	Custody complete?		Yes		No 🗌	Not Present
2. How was the	sample delivered?		Cou	ier		
Log In						
3. Was an atter	npt made to cool the samples	?	Yes	\checkmark	No 🗌	NA
4. Were all sam	ples received at a temperature	e of >0° C to 6.0°C	Yes	D Not frozen	No 🗹	
5. Sample(s) in	proper container(s)?		Yes		No 🗌	
6. Sufficient san	nple volume for indicated test(s)?	Yes	~	No 🗌	
7. Are samples	(except VOA and ONG) prope	rly preserved?	Yes	~	No 🗌	
8. Was preserva	ative added to bottles?		Yes		No 🗹	NA 🗌
9. Received at l	east 1 vial with headspace <1/	4" for AQ VOA?	Yes		No 🗌	NA 🗹
10. Were any sa	mple containers received brok	en?	Yes		No 🔽	# of preserved
11.Does paperw (Note discrep	ork match bottle labels? ancies on chain of custody)		Yes		No 🗌	bottles checked for pH: (<2 or >12 unless noted)
12. Are matrices	correctly identified on Chain o	f Custody?	Yes		No 🗌	Adjusted?
13. Is it clear what	at analyses were requested?		Yes	\checkmark	No 🗌	
14. Were all hold (If no, notify c	ing times able to be met? customer for authorization.)		Yes		No 🗌	/ Checked by: 5 (=L 10/27/~0
Special Hand	ling (if applicable)					
15. Was client ne	otified of all discrepancies with	this order?	Yes		No 🗌	NA 🔽
Persor	Notified:	Da	te:			
By Wh	om:	Via	: 🗌 eM	ail 🗌 Pho	one 🗌 Fax	In Person
Regard	ding:					
Client	Instructions:					
16. Additional re	emarks:					
17. <u>Cooler Info</u> Cooler No 1	rmation o Temp °C Condition 3 -1.3 Good N	Seal Intact Seal No ot Present	Seal D	ate S	igned By	

Page 1 of 1

Received by OCD: 12/1/2020 3:13:28 PM

ATORY A	13:28 PM		
ONME ABOR Lcom NM 8710 45-4107 est	otal Colitorm (Present/Absent)		
IR IL nenta srque, So5-3	(AOV-im92) 0528		
NV SIS SISS ironni ironni iron iron	(AOV) 09S8		
	CI' E' Bt' NO ³ ' NO ⁵ ' EO [⊄] ' SO [⊄]		
ALL ALL Mw.ha ww.ha NE 3975	SCRA 8 Metals		
HA AN ww vkins 345-	SMI20228 of 0158 vd sHA		
1 Hav	1081 Pesticides/8082 PCB's		+-
490 Tel.	ГРН:8015D(GRO / DRO / MRO)		arks:
	3TEX / MTBE / TMB's (8021)		Kem
Sderg Rush Sush Sush Sush Sush Sush G' Pahline G' Pahline G' Dal	Rel Invo Ale HEAL No.	001 002 004 004 004 004 004	Date Time Date Time (O 26 20 6 co Date Time Date Time
	ger:	JET JET	Via: Via:
Turn-Around Definition Project Mane Project #:	Project Mana Sampler: On Ice: Cooler Temp Container	~~~~~	Received by. Received by.
	dation)	the me	
Reco Linter 5240		535433	T
Stody Stody	□ Level 4 (npliance	5P-20 5P-23 5P-23 5P-23 5P-23	id by
of-Cu	Matrix Matrix	adjuddad	Relinquishe
hain-	Fax#: ackage: dard AC (Type)	1000 1000 1120 1120 1120	1. 1600 1900 1900
Client:C Mailing ,	email or QA/QC F GL-Stan(Accredit Date	10/26	Date: 13/16 Date: 19/26/20

	NMCRIS INVESTIGAT	ION ABSTRACT FORM	(NIAF)
y	2a. Lead (Sponsoring)	2b. Other Permitting	3 Lead Agency R

1. NMCRIS Activity No.: 145123	2a. Lead (Sponsori Agency: BLM-CFO	ing)	2b. Ot Ageno	her Permitting cy(ies):	3. Lead Agend	y Report No.:
4. Title of Report: A Cla Pipeline, Lea County, New	ss III Cultural Resource w Mexico	es Survey of a	an Oil Sp	ill along the Madurai	5. Type of Rep	oort ⊠ Positive
Author(s) Weaver, Ko	bbi, Stephanie Waldo, I	Douglas Bogg	ess, Bet	h McCormack, Trevor		
6. Investigation Type						
Research Design	Survey/Inventory	Test Exc	cavation	Excavation	llections/Non-Field	Study
Overview/Lit Review			aphic stu	udy 📋 Site specific visit		
7. Description of Underl At the behest of Durango Class III survey of the are	Midstream, Lone Mount Midstream, Lone Mount Midstream, Lone Mount	roject entail?): ntain performe nding an oil sr	ed a nill	8. Dates of Investigation	: January 25, 2020)
originating from the Madurai Pipeline just to the north. According to aerial photographs, this pipeline was installed before 1996. During the survey it was discovered that the oil spill had affected the southwest corner of newly discovered site LA 196068.9. Report Date: February 14, 2020						
This cultural resources inventory was conducted in order to ensure compliance with all applicable federal, state, and county legislation and procedures enacted to protect nonrenewable cultural resources, including the New Mexico Cultural Properties Act of 1978, Section 106 of the National Historic Preservation Act of 1966 as amended (PL 89-665), the National Environmental Policy Act of 1969 (PL 91- 852), the Archaeological Resource Protection Act of 1979 (PL 96- 95), Executive Order 11593.						
10. Performing Agency	/Consultant:			11. Performing Agency/	Consultant Report	No.: 3109
Principal Investiga	tor: Douglas Bogges	ic. S				
Field Supervisor: Field Personnel Na	Stephanie Waldo Imes: Stephanie Waldo	0		12. Applicable Cultural Resource Permit No(s): BLM Permit: 122-2920-18-VVV		
13. Client/Customer (pr Contact: Harley Eve Address: 2002 Time TX 77380 Phone: (575) 513-49	roject proponent): Du erhart berloch Place, Suite 11 922	rango Midstre 0, The Woodl	am ands,	14. Client/Customer Pro	iect No.:	
15. Land Ownership Sta	atus (<u>Must</u> be indicated	on project ma	p):			
Land Owner				Acres Surveyed Acre	s in APE	
BLM				10.71 3.55 S 10.71 3.55	5	
16 Bacarda Saarab(as)					,	
Date(s) of ARMS File F	Review 1-24-20 Review 1-24-20) Name (of Revie	wer(s) C. Travis		
Date(s) of Other Agency File Review 1-24-20 Name of Reviewer(s) C. Travis Agency Aaron Whaley/BLM-CFO						
17 Survey Data:						
a. Source Graphics 🗌 NAD 27 🕅 NAD 83						
	🛛 USGS 7.5' (1:24,00	0) topo map		☐ Other topo map, Scale:		
	🛛 GPS Unit 🛛 Ac	curacy □ <1	.0m	🛛 1-10m 🛛 10-100m	□>100m	
b.USGS 7.5' Topograph	ic Map Name	USGS Quad	Code			
Laguna Gatuna NW,	NM (1984)	32103-F6]		
c. County(ies): Lea						

.

17. Survey Data (continued):					
d. Nearest City or Town: Hobbs					
e. Legal Description:					
Township (N/S)	Range (E/W)	Section			
195	33E	29			
Projected legal description? Yes 🚺 , No 🔀 🛛 U	Inplatted				
f. Other Description (e.g. well pad footages, mile mar	f. Other Description (e.g. well pad footages, mile markers, plats, land grant name, etc.):				
18. Survey Field Methods: Intensity: □ 100% coverage □ <100% coverage					
Configuration: 🛛 block survey units 🗌 linear survey	/ units (I x w):	other survey un	its (specify):		
Scope: I non-selective (all sites recorded) I selective	ve/thematic (selected	sites recorded)			
Coverage Method: Systematic pedestrian coverage	other method (describe)			
Survey Interval (m): 15 Crew Size: 1 Fieldwork Da	ates: 1-15-20	7 5			
Additional Narrative: Lone Mountain surveyed a block m oil spill and the surrounding area. The innermost 60-m area was therefore not surveyed during the current work	measuring approxim n diameter of this spil	ately 250 m by 255 m to I contains a deep trenct	o encompass the 150-m by 165- n and large amount of oil. This		
19. Environmental Setting (NRCS soil designation; v an undulating dune field with dunes up to 3 m tall. This p Holocene to middle Pleistocene and found along the eas Carlsbad. This geological formation is comprised of inter between 3,590 ft and 3,610 ft amsl.	19. Environmental Setting (NRCS soil designation; vegetative community; elevation; etc.): The project area is situated within an undulating dune field with dunes up to 3 m tall. This part of New Mexico is on eolian and piedmont deposits, formed during the Holocene to middle Pleistocene and found along the eastern flank of the Pecos River Valley, primarily between Roswell and Carlsbad. This geological formation is comprised of interlayered eolian sands and piedmont-slope deposits. Elevation ranges between 3,590 ft and 3,610 ft amsl.				
Soils in the survey include Kermit-Palomas fine sands, 0 calcareous and sandy eolian deposits derived from sedir) to 12 percent slopes mentary rock and are	and Pyote and Maljam located on plains and o	har fine sands. These soils are dunes.		
Brown (1994) characterizes the vegetation community as yucca, shinnery oak, sand sage and various forbs and gr	s Semi-desert Grass rasses.	and. Local vegetation i	ncludes mesquite, narrow-leaf		
20. a. Percent Ground Visibility: 60 b. Condition of Survey Area (grazed, bladed, undisturbed, etc.): The main disturbance to this survey area is a 60-m by 60-m oil spill with oil seepage outward to a 165-m by 150-m area. This broader area is covered by a thin film of oil. An open trench has been dug in the center of the oil spill. A caliche-capped road is to the south of the area.					
21. CULTURAL RESOURCE FINDINGS 🛛 Yes, See	Page 3	o, Discuss Why:			
 22. Required Attachments (check all appropriate boxes): 23. Other Attachments: Copy of NMCRIS Mapserver Map Check A Site Forms - new sites (with sketch map & topographic map) LA Site Forms (update) - previously recorded & un-relocated sites (first 2 pages minimum) Historic Cultural Property Inventory Forms List and Description of isolates, if applicable 					
Principal Investigator/Decementation provided above is correct			agency standards.		
Principal Investigator/Responsible Archaeologist: Douglas H.M. Boggess					
25 Poviowing Agency	Date <u>Febru</u>	ary 14, 2020	i itie (if not Pi):		
Reviewer's Name/Date	Reviewer's Name/	Date:			
Accepted () Rejected ()	HPD Log #:				
Tribal Consultation (if applicable):	SHPO File Location	n: S:			

.

CULTURAL RESOURCE FINDINGS

[fill in appropriate section(s)]

1. NMCRIS Activity No.: 145123	2. Lead (Sponsoring) Agency: BLM-CFO	3. Lead Agency Report No.:
SURVEY RESULTS:		
Sites discovered and reg Sites discovered and NO Previously recorded sites Previously recorded sites TOTAL SITES VISITED: 1 Total isolates recorded: 2 Total structures recorded	istered: 1 T registered: 0 s revisited (site update form required): 0 s not relocated (site update form required): 0 2 Non-selective isolate recording? d (new and previously recorded, including acequias): 0	
MANAGEMENT SUMMAR LA 196068 is an artifact an 1400) temporal and cultura oil spill. It is therefore reco samples collected prior to of the site. No further work	LY: Lone Mountain encountered one archaeological d fire-cracked rock scatter with one thermal feature a affiliation. The small stain feature is near the wester mmended that the feature be partially excavated, a spill mitigation and that archaeological monitoring ta is recommended for the isolated manifestations.	I site (LA 196068) and two isolated manifestations. e and an Unspecified Jornada Mogollon (A.D. 200 to tern site boundary, which has been affected by the profile drawn, and radiocarbon and flotation ake place during any mitigation activities within 100 ft
SURVEY LA NUMBER LO)G	
Sites Discovered:	Field/Agency No. Eligible? (V/N. ennlige	ala avitaria)
196068	3109-001 Y, D	bie chieria)

.

A CLASS III CULTURAL RESOURCES SURVEY OF AN OIL SPILL ALONG THE MADURAI PIPELINE, LEA COUNTY, NEW MEXICO

Prepared by Kobi Weaver, Stephanie Waldo, Douglas Boggess, Beth McCormack, Trevor McDermott Lone Mountain Archaeological Services, Inc.



Submitted by Douglas H.M. Boggess, Principal Investigator Lone Mountain Archaeological Services, Inc. 2625 Pennsylvania Street NE Albuquerque, New Mexico 87110 Prepared for Durango Midstream 2002 Timberloch Place, Suite 110 The Woodlands, Texas 77380

LONE MOUNTAIN ARCHAEOLOGICAL SERVICES, INC.

NMCRIS No. 14512 BLM Permit No. 122-2920-18-VVV Lone Mountain 3109 February 14, 2020

Page 80 of 103

t the behest of Durango Midstream, Lone Mountain performed a Class III survey of the area including and surrounding an oil spill originating from the Madurai Pipeline just to the north. According to aerial photographs, this pipeline was installed before 1996.

On January 25, 2020 Lone Mountain archaeologist Stephanie Waldo conducted an intensive survey of the area to identify any cultural resources affected by the spill. The spill is located on Bureau of Land Management (BLM) lands in Lea County, New Mexico, Township 19 South, Range 33 East, Section 29 and can be found on the Laguna Gatuna NW, NM USGS 7.5-minute quadrangle. The BLM-Carlsbad Field Office (BLM-CFO) is serving as lead agency. This survey was conducted under BLM Permit 122-2920-18-VVV, NMCRIS 145123.

Lone Mountain encountered one archaeological site (LA 196068) and two isolated manifestations. LA 196068 is an artifact and fire-cracked rock scatter with one thermal feature and an Unspecified Jornada Mogollon (A.D. 200 to 1400) temporal and cultural affiliation. The small stain feature is near the western site boundary, which has been affected by the oil spill. It is therefore recommended that the feature be partially excavated, a profile drawn, and radiocarbon and flotation samples collected prior to spill mitigation and that archaeological monitoring take place during any mitigation activities within 100 ft of the site. No further work is recommended for the isolated manifestations.

This cultural resources inventory was conducted in order to ensure compliance with all applicable federal, state, and county legislation and procedures enacted to protect nonrenewable cultural resources, including the New Mexico Cultural Properties Act of 1978, Section 106 of the National Historic Preservation Act of 1966 as amended (PL 89-665), the National Environmental Policy Act of 1969 (PL 91-852), the Archaeological Resource Protection Act of 1979 (PL 96-95), Executive Order 11593.

ABSTRACTii
TABLE OF CONTENTSiii
CHAPTER 1: PROJECT DESCRIPTION 1DESCRIPTION OF UNDERTAKING1PROJECT LOCATION1ENVIRONMENTAL SETTING1ARCHIVAL RESEARCH1
CHAPTER 2: METHODS AND RESULTS 4 SURVEY METHODS 4 RECORDING METHODS 4 Isolate Definition 4 Site Definition 4 Site Recording 4 EVALUATION AND ELIGIBILITY 7 LOCATED RESOURCES 7 Isolated Manifestations 7 LA 196068 7
REFERENCES CITED

FIGURES

FIGURE 1.1: PROJECT VICINITY	. 2
FIGURE 1.1: OIL SPILL AND PIT, FACING SOUTHWEST (TOP); SPILL, FACING	
SOUTHEAST (CENTER); SPILL FACING EAST (BELOW)	3
FIGURE 2.1: LA 196068 SITE PLAN MAP	8
FIGURE 2.2: LA 196068 OVERVIEW, FACING NORTH (ABOVE);	
OVERVIEW, FACING WEST (CENTER); FEATURE 1, FACING WEST (BELOW)	9
FIGURES A.1 AND A.2: PROJECT LOCATION MAPSA-3 AND A-	-4
FIGURE A.3: ARMS FILES SEARCH MAP A-	-5
FIGURE A.4: FAR FORM A·	-6

TABLES

TABLE 2.1: ISOLATED	MANIFESTATION	S WITHIN THE F	PROJECT AF	REA7
TABLE A.1: CULTURA	L RESOURCE UTM	LOCATIONS (N	IAD 83, ZOI	NE 13) A-2

TABLE OF CONTENTS

DESCRIPI

CHAPTER 1: PROJECT

n January 25, 2020 Lone Mountain archaeologist Stephanie Waldo conducted an intensive cultural resources inventory of the affected area.

DESCRIPTION OF UNDERTAKING

At the behest of Durango Midstream, Lone Mountain performed a Class III survey of the area including and surrounding an oil spill originating from the Madurai Pipeline just to the north. According to aerial photographs, this pipeline was installed before 1996.

PROJECT LOCATION

The spill is located on Bureau of Land Management (BLM) lands in Lea County, New Mexico, Township 19 South, Range 33 East, Section 29 and can be found on the Laguna Gatuna NW, NM USGS 7.5-minute quad-rangle. The BLM-Carlsbad Field Office (BLM-CFO) is serving as lead agency. This survey was conducted under BLM Permit 122-2920-18-VVV, NMCRIS 145123 (Figures 1.1, 1.2, and A.1).

ENVIRONMENTAL SETTING

The project area is situated within an undulating dune field with dunes up to 3 m tall. This part of New Mexico is on eolian and piedmont deposits, formed during the Holocene to middle Pleistocene and found along the eastern flank of the Pecos River Valley, primarily between Roswell and Carlsbad. This geological formation is comprised of interlayered eolian sands and piedmont-slope deposits. Elevation ranges between 3,590 ft and 3,610 ft amsl.

Soils in the survey include Kermit-Palomas fine sands, 0 to 12 percent slopes and Pyote and Maljamar fine sands. These soils are calcareous and sandy eolian deposits derived from sedimentary rock and are located on plains and dunes.

Brown (1994) characterizes the vegetation community as Semi-desert Grassland. Local vegetation includes mesquite, narrow-leaf yucca, shinnery oak, sand sage and various forbs and grasses.

The main disturbance to this survey area is a 60-m by 60-m oil spill with oil seepage outward to a 165-m by 150-m area. This broader area is covered by a thin film of oil. An open trench has been dug in the center of the oil spill. A caliche-capped road is to the south of the area.

ARCHIVAL RESEARCH

Prior to entering the field, a site files review was conducted to locate any previously-recorded cultural resources and surveys in or within 0.25 mi of the project area. The review included records at the Archeological Records Management Section (ARMS) of the Museum of New Mexico, the National Register of Historic Places (NRHP), and the State Register of Cultural Properties. The BLM-General Land Office records were searched for any land patents (records available online at http://www.glorecords.blm.gov).

One site has been previously recorded within the file search area. LA 19997 is an artifact and fire-cracked rock scatter with a Late Pithouse to Early Pueblo Jornada Mogollon (A.D. 750 to 1200). The site was determined eligible for nomination to the NRHP in 1989 (HPD Log No.:20681). LA 19997 is located well outside the current project area and was not visited during this work.

A number of NMCRIS-registered surveys have taken place within the search radius, most related to oilfield development.

Ζ



Figure 1.1: Project Vicinity.

DURANGO

Ζ



Figure 1.1: Oil spill and pit, facing southwest (top); spill, facing southeast (center); spill facing east (below).

n January 25, 2020 Lone Mountain archaeologist Stephanie Waldo conducted an intensive cultural resources inventory of the affected area.

SURVEY METHODS

Lone Mountain surveyed a 660-ft by 620-ft block to encompass the proposed well pad surrounded by a 100-ft cultural buffer and a portion of the proposed access road. An 8,855.52-ft long by 200-ft wide linear corridor was surveyed to encompass the portion of the proposed access road falling outside the surveyed block (including a possible reroute around LA 178322) with a greater-than-50-ft cultural buffer on each side. Archaeologists conducted pedestrian survey in 15-m transects.

This survey was performed in accordance with the latest requirements for all archaeological survey projects conducted within lands managed by the BLM-CFO as set forth in *Standards for Survey Site Evaluation and Reporting for the CFO* (BLM-CFO 2012).

When cultural remains predating 1970 were encountered, a determination was made as to whether they constituted an isolated manifestation or a site. Especially intensive low-interval survey was conducted in areas where previously recorded sites were expected within or near the project area. These searches were conducted at both the previously recorded UTM coordinates and at the locations of hand-drawn map plots, which can be divergent in the case of sites recorded in pre-GPS years.

RECORDING METHODS

ISOLATE DEFINITION

Isolated manifestations are cultural remains that do not qualify as sites. They generally consist of single artifacts or artifact scatters that are of extremely low density and are widely dispersed, and are indicative of a single or unintentional activity. According to BLM guidelines (BLM 2005:1-10) isolated manifestations may consist of fewer than 10 artifacts or a single, undateable feature.

Isolated manifestations are often found in redeposited context (although sites can also be in redeposited context [BLM 2005:1-9]) and cannot be related to other nearby sites or isolated manifestations. In addition, isolated manifestations are generally 50 years old or older, although Lone Mountain may record more recent materials as isolates if there is a sound reason for documenting their presence. Isolated manifestations are recorded in the field on the Lone Mountain isolated manifestation form, a GPS reading is taken, and their locations are plotted on the USGS quadrangle.

SITE DEFINITION

As per BLM guidelines (BLM 2005), sites are defined as any physical location of past human activities or events. Cultural resource sites are extremely variable in size, and range from a cluster of several objects or materials to structures with associated objects and features. A site may consist of secondarily deposited cultural resource remains. Features such as hearths, cairns, rock alignments, masonry concentrations, burned adobe, fire-cracked rock concentrations, cists, corrals, and rock art are generally recorded as sites. Sites also include definite locations of traditional cultural or religious importance to specified social or cultural groups. Furthermore, sites are at least 50 years old, unless it can be demonstrated that a property has achieved exceptional importance within the past 50 years.

SITE RECORDING

When sites were encountered, boundaries were defined using BLM guidelines. Artifacts and features were marked and site boundaries were determined by the distribution of these marked cultural materials. Sites were recorded using a Laboratory of Anthropology Site Record form.

S

⊢

S

ш

A sketch map was drawn of each site, and site locations were plotted on the appropriate USGS quadrangle. GPS readings were taken to verify the accuracy of the field plot and were taken from a datum located on each sketch map. Photographs were taken showing the setting of each site and any unique or representative features. Either all artifacts, or in the case of large assemblages a representative sample of artifacts, from each site was recorded using Lone Mountain artifact analysis forms. Drawings and photographs of diagnostic or representative formal tools were made. Examinations of rodent burrows, road cuts, drainages, and other disturbed locations were employed to determine if subsurface cultural deposits were present.

In keeping with the January 20, 2012 BLM-CFO standards for site evaluation and reporting, Lone Mountain also conducts limited testing on BLM lands and on private lands, when the BLM is serving as the lead agency. These testing methods are intended to locate buried cultural deposits if surface examinations prove inconclusive and may include trowel testing, shovel testing, or auger testing. Trowel testing is typically performed within features or to probe very shallow-appearing sediments. Shovel tests involve the excavation of 30-cm by 30-cm blocks, which were screened through a hand-held 1/8-inch screen. Shovel tests are performed in moderately deep sediments that are estimated to be less than 50 cm deep. On occasion, a shovel test may begin and end almost immediately on paleosol. These are termed "shovel probes." Auger tests involve the use of a 10-cm diameter bucket auger. Augered fill is likewise put through a hand-held 1/8-inch screen. Auger tests are typically used in sediments that were thought to be more than 50 cm in depth. All subsurface tests end, if possible, in the upper few centimeters of gypsum, bedrock, or caliche. Strata of this kind are known to be in excess of 100,000 years old, and are unlikely to contain archaeological remains. The locations of all shovel and auger tests are documented using a GPS. Buried charcoal, ash, or potentially cultural stained strata of any depth and artifacts and burned rock occurring at a depth of 10 cm or more constitute archaeologically significant subsurface cultural materials that may be counted as positive results achieved during testing.

FEATURES

The following feature definitions were used for recording purposes on archaeological sites encountered during this project. This list represents the most common feature types observed. It was understood that several feature types may also be defined as site types (e.g., Rock Alignment); this is a matter of context and was to be dealt with on a case by case basis. In the event that a feature was encountered that was not on this list, Lone Mountain was to contact BLM-CFO archaeologists for consultation and procedures on documentation.

- Large Stain: Defined by the presence of a charcoal or a carbonized ash stain greater than 1 m in diameter with fewer than five pieces of fire-cracked rock or burned caliche associated with the feature.
- Small Stain: Defined by the presence of a charcoal or carbonized ash stain less than 1 m in diameter with fewer than five pieces of fire-cracked rock or burned caliche associated with the feature.
- Fire-Cracked Rock Concentrations with Carbon Staining: A feature containing five or more pieces of firecracked rock or burned caliche greater than 5 cm in size, within a 1-m-by-1-m area. A charcoal or carbonized ash stain is present.
- Fire-Cracked Rock Concentrations: A feature containing 25 or more pieces of fire-cracked rock or burned caliche greater than 5 cm in size, within a 1-m-by-1-m area. No carbon staining is present.
- Special Concentration: Any unique or unusual concentration of artifacts, such as "pot drops" defined as a
 grouping of sherds of the same style or type that may have resulted from the breakage of a single vessel, a
 milling station, a knapping station, or a "cache" defined as a concentration of specialized artifacts (i.e. projectile points).
- Ring Midden: This category includes large, roughly circular, concentrations of fire-cracked rock, usually more than 250 pieces, and often with a mound-like appearance. These may have a small depression in the center, and may have charcoal or ash on the surface.
- Rock Alignment: Defined as a linear alignment of stones that can be associated with both prehistoric and historic cultural assemblages. Rock alignments can appear as straight lines, such as fences, wall segments, check dams, or erosion control; circular or oval, such as, wickiup, tipi, or other structurally related rings; and angular (square or rectangular) such as roomblocks, historic foundations, or military occupations (fighting positions).
- Bedrock Mortar: Defined as a groundstone mortar located on a fixed area of bedrock or a large boulder.

The following information is recorded for all encountered features:

- Dimensions using metric denominations. The length was to be measured along the north/south axis and the width along the east/west axis. Depth was to be determined by limited testing, such as a trowel test, soil probe, or bucket auger (where appropriate). Any mounding was to be presented as height above surface level;
- Any subsurface materials (such as carbon deposits, buried artifacts, buried fire-cracked rock);
- Number of fire-cracked rock associated with the feature (within the recorded feature dimensions);
- The feature is to be point plotted using a GPS; and
- Feature integrity.

ARTIFACTS

Artifact assemblages with more than 100 artifacts per class are recorded using a representative sampling method (e.g., percentage of artifacts, percentage of site area), with at least 100 artifacts per class recorded. The chosen methodology is documented in both the final report and site narratives in the LA form. Artifact assemblages with fewer than 100 artifacts per class are completely recorded.

The following attributes are recorded for each class of artifacts:

Flaked-Stone Artifacts

- Type (e.g., core-reduction flake, biface thinning flake, pressure flake, bifacial tool, unifacial tool, chopper, hammerstone, tested cobble, core, projectile point, etc.);
- Material type;
- Diagnostic artifacts are point plotted using a GPS, collected, and submitted to the BLM;
- Number of artifacts;
- Projectile Points are typed when possible using Justice (2002) and or Turner and others (2011) with proper citation. References are cited in the report and the LA form.

Ceramic Artifacts

- Ware (e.g., Undifferentiated brownware, Chupadero Black-on-white, El Paso Polychrome, Ochoa corrugated, Playas Red, Three Rivers Red-on-terracotta, Mimbres Black-on-white, Playas Red, Chihuahuan wares, such as Ramos Polychrome, Babicora, or Dublan, or other);
- Rim form (e.g., pinched, rounded, direct flattened, thickened and flattened or everted);
- Number of artifacts;
- Rim forms and exotic wares like Ramos Polychrome were to be point plotted using a GPS, collected, and submitted to the BLM;
- Any pot drops encountered were to be recorded as "Special Concentrations" and documented as a feature.

Ground-stone Artifacts

- Type (e.g., one-hand mano, two-hand mano, pestle, metate, metate fragment, mano fragment, indeterminate fragment);
- Material;
- Number of artifacts.

Fire-cracked Rock

While not considered an artifact class, an approximate count of all non-feature related fire-cracked rock observed on site was to be documented.

S F

EVALUATION AND ELIGIBILITY

Sites are evaluated as to their NRHP eligibility status. The key criterion was the potential of the site to contain additional data relevant to future research. In the case of prehistoric sites, the potential for important additional data is dependent on the presence or absence of buried cultural deposits. On each site, the possibility of buried cultural deposits is assessed by a variety of means. Observations were noted regarding the likelihood of buried cultural deposits based on several characteristics. For example, indications of potential site depth include stratigraphic soil profiles exposed along road cuts and arroyos or cultural materials in the back-dirt piles of rodent burrows.

In the event that the NRHP eligibility of a site may not be ascertained with certainty based on surface observation, subsurface testing is performed as described above. Testing is to be used to determine the presence or absence of stained sediments of any depth and buried cultural deposits deeper than 10 cm or deeper than depths normally accessible through trowel testing. Any positive testing result is indicative that site has potential to yield additional significant data. Testing is done until a reasonable level of confidence concerning the depositional potential of the site is assessed. If, upon completion of testing, Lone Mountain is still not able to make a recommendation of eligibility, a BLM archaeologist is contacted and an on-site consultation is scheduled.

LOCATED RESOURCES

ISOLATED MANIFESTATIONS

Two isolated manifestation was encountered in the project area (Table 2.1). UTM locations were recorded using a Garmin Oregon 650t (plotted and listed in Appendix A).

Table 2.1: Isolated Manifestations Within the Project Area.

IM No.	Description
IM 001	Exhausted, white multidirectional silicified sandstone core measuring 50 mm x 37 mm x 31 mm.
IM 002	4 one-sided sandstone metate slab fragments that were resued as FCR; measuring 11 cm, 7 cm, 7 cm, and 17 cm.

LA 196068

Field No.: 3109-001 Affiliation: Unspecified Jornada Mogollon (A.D. 200 to 1400) Eligibility: Eligible, D Site Type: Campsite

DESCRIPTION

LA 196068 (Figures 2.1 and 2.2) is a ceramic and lithic artifact and fire-cracked rock scatter with one thermal feature. The site is located within a dunefield with vegetation including mesquite, yucca, sand sage, shinnery oak, and various forbs and grasses. Surface visibility ranges between 51 percent and 75 percent.

A S S E M B L A G E

The surface assemblage is comprised of 18 lithic artifacts and six sherds, including 15 pieces of flaked-stone debitage (four secondary reduction flakes, seven tertiary reduction flakes, and four pieces of angular debris); one multidirectional core; one uniface; one slab metate fragment; and six brownware sherds. Raw lithic materials are sandstone, opalite, chert, quartzite, chalcedony, and silicified sandstone.

Approximately 40 pieces of fire-cracked rock are scattered across the site outside feature contexts.

S



Figure 2.1: LA 196068 Site Plan Map.

8

S



Figure 2.2: LA 196068 Overview, facing north (above); Overview, facing west (center); Feature 1, facing west (below).

FEATURE AND SITE STRUCTURE

Lone Mountain observed one thermal feature. Feature 1 is a small, irregular, diffuse carbon stain falling within an area 40 cm in diameter. The stain, where present, is very black and is located at the bottom of a dune slope and edge of a blowout. No testing was conducted in order to better preserve the feature. The stain has vegetation growing from it and is estimated to be no more than 35 percent intact.

Eolian sands are approximately 2 m in depth, based on dune height and blowout depth. Dark carbon staining is present to an unknown depth in Feature 1.

DISTURBANCES AND POTENTIAL IMPACTS

A buried pipeline is located 10 m south of the site. The western edge of the site is inside an oil spill. Wind erosion and sheetwash are the most evident causes of disturbance, with rodent burrowing and livestock grazing also apparent. This site remains between 26 percent and 50 percent intact.

CONCLUSION

LA 196068 has brownware sherds indicating an Unspecified Jornada Mogollon (A.D. 200 to 1400) temporal and cultural affiliation. LA 196068 has a small carbon stain feature that may yield radiocarbon dates and plant remains. These buried cultural deposits may therefore produce data capable of addressing both site-specific and regional research questions concerning chronology and subsistence, such as the questions posited in the PBRD (Railey 2016). LA 196068 is recommended eligible for nomination to the NRHP under Criterion D.

Given the proximity of a small stain feature to the western edge of the site (which has been affected by the spill), it is recommended that the feature be partially excavated, a profile drawn, and radiocarbon and flotation samples collected prior to spill mitigation and that archaeological monitoring take place during any mitigation of the spill within 100 ft. of the site.

EVALUATION OF PROPERTIES AND RECOMMENDATIONS

Lone Mountain encountered one archaeological site (LA 196068) and two isolated manifestations. LA 196068 is an artifact and fire-cracked rock scatter with one thermal feature and an Unspecified Jornada Mogollon (A.D. 200 to 1400) temporal and cultural affiliation. The small stain feature is near the western site boundary, which has been affected by the oil spill. It is therefore recommended that the feature be partially excavated, a profile drawn, and radiocarbon and flotation samples collected prior to spill mitigation and that archaeological monitoring take place during any mitigation activities within 100 ft of the site. No further work is recommended for the isolated manifestations.

This cultural resources inventory was conducted in order to ensure compliance with all applicable federal, state, and county legislation and procedures enacted to protect nonrenewable cultural resources, including the New Mexico Cultural Properties Act of 1978, Section 106 of the National Historic Preservation Act of 1966 as amended (PL 89-665), the National Environmental Policy Act of 1969 (PL 91-852), the Archaeological Resource Protection Act of 1979 (PL 96-95), Executive Order 11593.

Brown, David E.

1994 Biotic Communities: Southwestern United States and Northwestern Mexico. University of Utah Press.

Bureau of Land Management

2005 Procedures for Performing Cultural Resource Fieldwork on Public Lands in the Area of New Mexico BLM Responsibilities. BLM Manual Supplement H-8100-1, Rel. 8-21. Santa Fe.

Justice, Noel D.

2002 Stone Age Spear and Arrow Points of the Southwestern United States. Indiana University Press, Bloomington.

Railey, Jim A.

2016 Permian Basin Research Design 2016-2026, Volume 1: Native American Archaeology and Cultural Resources. NMCRIS 136616. SWCA Report No. 16-481. SWCA Environmental Consultants, Albuquerque.

Turner, Ellen Sue, Thomas R. Hester, and Richard L. McReynolds

2011 Stone Artifacts of Texas Indians. Taylor Trade Publishing, Lanham, MD.

This appendix contains locational data.

THIS INFORMATION IS CONFIDENTIAL AND RESTRICTED FROM PUBLIC DISCLOSURE UNDER 36 CFR 296.18

ΤA

◄
_
۷
Ζ
0
—
◄
0
0
_
۲
_
2
Э
ш
Ζ
0
U
۷
×
Ē
Р
٩
┛

Resource Number	Northing	Easting
IM 001	3611183	623242
IM 002	3611083	623235
LA 196068	3611103	623312

•



. Released to Imaging: 2/5/2021 9:49:31 AM



DCA

Released to Imaging: 2/5/2021 9:49:31 AM





https://nmcris.dca.state.nm.us/nmcrisgis/default.aspx?username=CATRAVIS&password=R2F6ZXR0ZWVyOTgk



EXHIBIT NO.

1

Bureau of Land Management, Carlsbad Field Office

620 E. Greene Street Carlsbad, NM 88220

Date of Issue: 2/26/2020

20-0481/BLM Report

Cultural and Archaeological Resources **NOTICE OF STIPULATIONS**

<u>Historic properties</u> in the vicinity of this project are protected by federal law. In order to ensure that they are not damaged or destroyed by construction activities, the project proponent and construction supervisors shall ensure that the following stipulations are implemented.

<u>Project</u> <u>Name</u> :	Oil Spill along the Madurai Pipeline
	1). A 3-day preconstruction call-in notification. Contact BLM Inspection and Enforcement at
Required	2. Professional archaeological monitoring. Contact your BLM project archaeologist at for assistance.
A. 🔀	These stipulations must be given to your monitor at least <u>3 days</u> prior to the start of construction.
В. 🔀	No construction, including vegetation removal or other site prep may begin prior to the arrival of the monitor.
	3. Cultural site barrier fencing. (Your monitor will assist you).
A. 🗌	<u>A temporary site protection barrier(s)</u> shall be erected prior to all ground-disturbing activities. The minimum barrier(s) shall consist of upright wooden survey lath spaced no more than ten (10) feet apart and marked with blue ribbon flagging or blue paint. There shall be no construction activities or vehicular traffic past the barrier(s) at any time.
B.	<u>A permanent, 4-strand barbed wire fence</u> strung on standard "T-posts" shall be erected prior to all ground-disturbing activities. No construction activities or vehicle traffic are allowed past the fence.
Required	4. The archaeological monitor shall:
A. 🔀	An archaeological monitor will be present during the ground clearing of the spill cleanup. Durango Midstream should contact the third-party archaeological monitor when they are 200' away from the eastern edge of the spill. This monitor will be present during cleanup within 100' of the boundary LA 196068.
В. 🔀	A monitoring report will be turned in within 30 days of completing field work.
C. 🗌	
D.	
	If subsurface cultural resources are encountered during the monitoring, all activities shall cease and a BLM-CFO archaeologist shall be notified immediately.
Other:	IF THE CONTRACT ARCHAEOLOGIST DOES NOT KNOW WHERE THE SITE(S) ARE LOCATED AT PLEASE COME BY THE CARLSBAD BLM AND MAPS AND OTHER DATA WILL BE PROVIDED UPON REQUEST TO THE CONTRACT ARCHAEOLOGIST

<u>Site Protection and Employee Education</u>: It is the responsibility of the project proponent and his construction supervisor to inform all employees and subcontractors that cultural and archaeological sites are to be avoided by all personnel, vehicles, and equipment; and that it is illegal to collect, damage, or disturb cultural resources on Public Lands.

For assistance contact:

Aaron Whaley (575) 234-5986Brandon Gonia (575)-234-5945Elia Perez (575)-234-6231Trish Byers (575)-234-2239

Form C-141 Page 3 State of New Mexico Oil Conservation Division

Incident ID	NRM2006237844
District RP	IT
Facility ID	· · · · · · · · · · · · · · · · · · ·
Application ID	

Page 99 of 103

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

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and 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 ½-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

ceived by OCD: 12/1/2	020 3:13:28 PM			Page 100
Form C-141	State of New Mexic	0	Incident ID	NRM2006237844
Page 4	Oil Conservation Divis	sion	District RP	
			Facility ID	
			Application ID	
failed to adequately inves addition, OCD acceptance and/or regulations. Printed Name: Harle Signature: HEVERHART@	tigate and remediate contamination that pose e of a C-141 report does not relieve the opera ey Everhart DURANGOMIDSTREAM.COM	a threat to groundwater, so that to groundwater, so that to of responsibility for comparison of the temperature of temp	urface water, human health mpliance with any other fe analyst 5-513-4922	or the environment. In deral, state, or local laws
OCD Only Received by: Cristin	na Eads	Date:1	2/01/2020	0

Form C-141

Page 5

State of New Mexico Oil Conservation Division

Incident ID	NRM2006237844	
District RP	14 mm - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	-
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	12/07/4) NIMA C			
Proposed schedule for remediation (note if remediation plan ti	meline is more than 90 days OCD approval is required)			
Deferral Requests Only: Each of the following items must be c	onfirmed as part of any request for deferral of remediation.			
Contamination must be in areas immediately under or around deconstruction.	production equipment where remediation could cause a major facility			
Extents of contamination must be fully delineated.				
Contamination does not cause an imminent risk to human heal	th, the environment, or groundwater.			
I hereby certify that the information given above is true and compl rules and regulations all operators are required to report and/or file which may endanger public health or the environment. The accep liability should their operations have failed to adequately investiga surface water, human health or the environment. In addition, OCI responsibility for compliance with any other federal, state, or local	ete to the best of my knowledge and understand that pursuant to OCD e certain release notifications and perform corrective actions for releases tance of a C-141 report by the OCD does not relieve the operator of the and remediate contamination that pose a threat to groundwater, o acceptance of a C-141 report does not relieve the operator of laws and/or regulations.			
Printed Name: Harley Everhart	Title: EHS Analyst			
Signature Al	Data: 11/20/200			
	575 512 1022			
email:	Telephone: 070-010-4922			
OCD Only				
Received by:	_ Date:			
Approved Approved with Attached Conditions of	f Approval Denied Deferral Approved			
Signature:	Date:			

Form C-141

Page 6

State of New Mexico Oil Conservation Division

Incident ID	NRM2006237844
District RP	
Facility ID	11.0
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: Harley Everhart	Title: EHS Analyst
	Date: 11/28/2020
email:	Telephone: 373-313-4922
OCD Only	
Received by: Cristina Eads	Date:12/01/2020
Closure approval by the OCD does not relieve the responsible remediate contamination that poses a threat to groundwater, su party of compliance with any other federal, state, or local laws	party of liability should their operations have failed to adequately investigate and rface water, human health, or the environment nor does not relieve the responsible s and/or regulations.
Closure Approved by: Autor and	Date:02/05/2021
Printed Name: Cristina Eads	Title: Environmental Specialist

CONDITIONS

Action 11378

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 <u>District IV</u> 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 OF APPROVAL

Operator:		OGRID:	Action Number:	Action Type:
SAFETY & ENVIRONMENTAL SOLUTIO	PO Box 1613	329088	11378	C-141
703 E Clinton Hobbs, NM88240				
OCD Reviewer		Condition		
ceads		None		