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

Latitude <u>32.29896924</u>

State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	NRM2032954682
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Marathon Oil Permian LLC	OGRID 372098
Contact Name Melodie Sanjari	Contact Telephone 575-988-8753
Contact email msanjari@marathonoil.com	Incident # (assigned by OCD)
Contact mailing address 4111 S. Tidwell Rd., Carlsbad, NM 8220	

Location of Release Source

(NAD 83 in decimal degrees to 5 decimal places)			
Site Name GRAVEL GRINDER FEE 23 28 18 WXY #010H	Site Type: Oil & Gas Facility		
Date Release Discovered 11/13/2020	API# (if applicable) 30-015-44630		

Unit Letter	Section	Township	Range	County
N	18	23S	28E	Eddy

Longitude

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

Nature and Volume of Release

Material	(s) Released (Select all that apply and attach calculations or specific	justification for the volumes provided below)
Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls) 213.8	Volume Recovered (bbls) 50
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	⊠ Yes □ No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release		

MOC received a notification of a 4" valve failure on the San Mateo custody transfer that resulted in the release of approx.. 214 bbl. of produced water onto the pasture around the connect. The source was immediately isolated for repairs and initial response included the recovery of all standing fluids and the surficial scrape of the area most impacted. The impacted area will be remediated as detailed by 19.15.29.

Received by OCD: 6/14/2021 1:59:59 PM Form C-141 State of New Mexico Page 2 Oil Conservation Division

Page 2 of 119

Incident ID	NRM2032954682
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the respon	sible party consider this a major release?
release as defined by		
19.15.29.7(A) NMAC?	Volume	
⊠ Yes □ No	Volume	
If YES, was immediate no	otice given to the OCD? By whom? To wh	om? When and by what means (phone, email, etc)?
On the evening of	of 11/13 OCD was notified via email of the	release. The landowner was also notified.
	Initial Ro	esponse
The responsible	party must undertake the following actions immediatel	vunless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.	
	s been secured to protect human health and	the environment.
Released materials ha	ave been contained via the use of berms or co	ikes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed and	l managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain	why:
Per 19.15.29.8 B. (4) NM	AC the responsible party may commence r	emediation immediately after discovery of a release. If remediation
has begun, please attach	a narrative of actions to date. If remedial	efforts have been successfully completed or if the release occurred lease attach all information needed for closure evaluation.
I hereby certify that the info	rmation given above is true and complete to the	pest of my knowledge and understand that pursuant to OCD rules and
		fications and perform corrective actions for releases which may endanger
failed to adequately investig	ate and remediate contamination that pose a thre	CD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In
addition, OCD acceptance of		responsibility for compliance with any other federal, state, or local laws
and/or regulations.		
Printed Name: <u>Mel</u>	odie Sanjari	Title: Environmental Professional
Signature: Melod	lie Saniari	Date: 11/16/2020
<u> </u>	<u> </u>	Date: 11/10/2020
email: <u>msanjari@mara</u>	thonoil.com	Telephone: <u>575-988-8753</u>
OCD Only		
Received by:		Date:

Page 3 of 119

Incident ID	NRM2032954682
District RP	
Facility ID	
Application ID	

Closure

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

Closure Report Attachment Checklist: Each of the following item.	s must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.11 N	IMAC
Photographs of the remediated site prior to backfill or photos of t must be notified 2 days prior to liner inspection)	he liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODC Di	strict 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 and regulations all operators are required to report and/or file certain remay endanger public health or the environment. The acceptance of a C should their operations have failed to adequately investigate and remed human health or the environment. In addition, OCD acceptance of a C-compliance with any other federal, state, or local laws and/or regulation restore, reclaim, and re-vegetate the impacted surface area to the condit accordance with 19.15.29.13 NMAC including notification to the OCD Printed Name: Melodie Sanjari Signature: Melodie Sanjari	lease notifications and perform corrective actions for releases which -141 report by the OCD does not relieve the operator of liability iate contamination that pose a threat to groundwater, surface water, -141 report does not relieve the operator of responsibility for as. The responsible party acknowledges they must substantially ions that existed prior to the release or their final land use in when reclamation and re-vegetation are complete. Title: Environmental Professional
Signature: <u>Mewwe Swyw v</u>	Date: 6/14/2021
email: <u>msanjari@marathonoil.com</u>	Telephone: <u>575-988-8753</u>
OCD Only	
Received by:	Date:
	iability should their operations have failed to adequately investigate and er, human health, or the environment nor does not relieve the responsible egulations.
Closure Approved by:	Date:
Printed Name:	Title:



June 14, 2021

#5E29918-BG3

NMOCD District 2 811 S. First St Artesia, New Mexico 88210

SUBJECT: Remediation Closure Report for the Gravel Grinder Fee 23 28 18 WXY #010H Release (NRM2032954682), Eddy County, New Mexico

To Whom it May Concern:

On behalf of Marathon Oil, Permian LLC, Souder, Miller & Associates (SMA) has prepared this Remediation Closure Report that describes the remediation of a release of liquids related to oil and gas production activities at the Gravel Grinder Fee 23 28 18 WXY #010H site. The site is in Unit N, Section 18, Township 23S, Range 28E, Eddy County, New Mexico, on private land. Figure 1 illustrates the vicinity and site location on an USGS 7.5 minute quadrangle map.

Table 1 summarizes release information and Closure Criteria.

Table 1: Release Information and Closure Criteria						
Name	Gravel Grinder Fee 23 28 18 WXY #010H	I Company I I				
API Number	30-015-44630	Location	32.29896924 -104.13084921			
Incident Number	N	NRM2032954682				
Estimated Date of Release	November 13, 2020	Date Reported to NMOCD	November 13, 2020			
Land Owner	Private	Reported To	NMOCD			
Source of Release	Valve Failure	alve Failure				
Released Volume	213.8	Released Material	Produced Water			
Recovered Volume	50	Net Release	163.8			
NMOCD Closure Criteria	<50 feet to groundwater					
SMA Response Dates	11/13, 11/17/2020, 5/27/2021					

Gravel Grinder Fee 23 28 18 WXY #010H Remediation Closure Report (NRM2032954682) June 14, 2021

Page 2 of 4

1.0 Background

On November 13, 2020, a release was discovered at the Gravel Grinder Fee 23 28 18 WXY #010H site due to a 4-inch valve failure. Initial response activities were conducted by Marathon Oil, and included source elimination and containment activities, which recovered approximately 50 barrels of fluid and which were hauled to and disposed of at R360 Environmental Solutions near Hobbs, NM. Figure 1 illustrates the vicinity and site location, Figures 2 and 3 illustrate the release location. The C-141 form is included in Appendix A.

2.0 Site Information and Closure Criteria

The Gravel Grinder Fee 23 28 18 WXY #010H is an active production facility located approximately 2 miles northwest of Loving, New Mexico on privately-owned land at an elevation of approximately 3,701 feet above mean sea level (amsl).

Depth to Groundwater

Based upon New Mexico Office of the State Engineer (Appendix B), average depth to groundwater within half-mile is estimated to be 98 feet below grade surface (bgs). However, the nearest well (C-04289 POD1) is 724 feet to the southeast with a depth to groundwater recorded at 78 feet bgs, thus concluding that depth to groundwater is between 70-80 feet bgs.

Wellhead Protection Area

There are six (6) known water sources within ½-mile of the location, according to the New Mexico Office of the State Engineer (NMOSE) online water well database.

<u>Distance to Nearest Significant Watercourse</u>

The nearest significant watercourse is an unnamed canal, located 90 feet directly to the south of the release.

Based on the information presented herein, the applicable NMOCD Closure Criteria for this site is for a groundwater depth of less than 50 feet bgs.

3.0 Release Characterization Activities and Findings

On November 13, 2020, through December 28, 2020 SMA personnel performed site delineation activities at the Gravel Grinder Fee 23 28 18 WXY #010H site. SMA collected soil samples around the release site and throughout the visibly stained area. The area of visual impact was located entirely outside the boundary of any production or storage facilities; however, it did occur in an active tie-in for salt water disposal.

Soil samples were field-screened for chloride using an electrical conductivity (EC) meter and chloride silver nitrate buret (EPA SM 4500-CL B).

A total of six (6) sample locations (SL1-SL6) and five (5) sidewalls (SW1-SW5) were investigated using a direct-push drill rig, to depths up to thirteen (13) feet bgs. A minimum of two samples were collected at each sampling location and field-screened using the methods above. A total of fifty-three (53) samples were collected for laboratory analysis for total chloride using EPA Method 300.0; benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA Method 8021B; and motor, diesel and gasoline range organics (MRO, DRO, and GRO) by EPA Method 8015D.

Engineering • Environmental • Surveying

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Gravel Grinder Fee 23 28 18 WXY #010H Remediation Closure Report (NRM2032954682) June 14, 2021

Page 3 of 4

In the work plan dated January 14, 2021, SMA proposed a hydrocarbon targeted excavation that involved the removal of contaminated material with the impacted are to four (4) bgs. On April 12, 2021, NMOCD approved the work plan.

4.0 Soil Remediation Summary

In accordance with the approved work plan, on May 27, 2021 SMA returned to the site to guide the excavation of contaminated soil. After approval from area utilities via 811, SMA guided the excavation activities by collecting soil samples for field screening. Samples were screened for chloride using an electrical conductivity (EC) meter. The sidewalls were excavated within the release footprint until field screening results indicated that NMOCD closure criteria would be met and the base of the excavation was extended to four (4) bgs to ensure the removal of all hydrocarbon impact. NMOCD was notified on May 25, 2021 that closure samples were expected to be collected in two (2) business days.

On May 27, 2021, SMA conducted confirmation sampling of the walls and base of the excavation. The area around initial sample locations SL1-SL6 was excavated to a depth of four (4) feet bgs. The confirmation samples were collected from within the excavation in accordance with the approved work plan included in Appendix E. Confirmation samples were comprised of five-point composites of the base (CBH1-CBH6) and walls (CSW1-CSW4).

Figure 3 shows the extent of the excavation and sample locations. The required photo of the excavation is included in Appendix C. Laboratory results are summarized in Table 3. Laboratory reports are included in Appendix D.

Approximately 420 cubic yards were removed and replaced with clean backfill material to return the surface to previous contours. The contaminated soil was transported and disposed of at R360 Environmental Solutions, near Hobbs, NM, an NMOCD permitted disposal facility.

On behalf of Marathon Oil, SMA requests closure for the Gravel Grinder Fee 23 28 18 WXY #010H (NRM2032954682) release. The site has been remediated to meet the requirements of the approved work plan.

5.0 Scope and Limitations

The scope of our services included: assessment sampling; verifying release stabilization; regulatory liaison; remediation; and preparing this closure report. All work has been performed in accordance with generally accepted professional environmental consulting practices for oil and gas releases in the Permian Basin in New Mexico.

Gravel Grinder Fee 23 28 18 WXY #010H Remediation Closure Report (NRM2032954682) June 14, 2021

Page 4 of 4

If there are any questions regarding this report, please contact either Ashley Maxwell at 505-320-8975 or Shawna Chubbuck at 505-325-7535.

Submitted by: SOUDER, MILLER & ASSOCIATES

Reviewed by:

Ashley Maxwell Project Scientist

Shawna Chubbuck Senior Scientist

ATTACHMENTS:

Figures:

Figure 1: Site Map

Figure 2: Surface Water Radius Map

Figure 3: Site and Confirmation Sample Map (Also included in approved work plan)

Tables:

Table 2: NMOCD Closure Criteria Justification Table 3: Summary of Confirmation Sample Results

Appendices:

Appendix A: Form C141

Appendix B: NMOSE Wells Report

Appendix C: Photo Log

Appendix D: Laboratory Analytical Reports

Appendix E: Approved Work Plan

FIGURES



Site and Confirmation Sample Map Gravel Grinder Fee 23 28 18 WXY #010H- Marathon Oil UL: N S: 18 T: 23S R: 28E, Eddy County, New Mexico

By:_____ Date:_____ Descr: ______
By:____ Date:_____ Descr: ______
© Souder, Miller & Associates, 2020, All Rights Reserved



Figure 3

201 South Halaguena Street Carlsbad, New Mexico 88221 (575) 689-7040 Serving the Southwest & Rocky Mountains

TABLES

Table 2: NMOCD Closure Criteria

Marathon Oil, Permian LLC Graver Grinder Fee 23 28 18 WXY #010H NRM2032954682

Site Information (19.15.29.11.A(2, 3, and 4) NMAC)		Source/Notes		
Depth to Groundwater (feet bgs) 80		New Mexico Office of the State Engineer		
Hortizontal Distance From All Water Sources Within 1/2 Mile (ft)		United States Geological Survey		
Hortizontal Distance to Nearest Significant Watercourse (ft) 90		United States Geological Survey		

Closure Criteria (19.15	.29.12.B(4) and	Table 1 NMAC)				
Depth to Groundwater		Closure Criteria (units in mg/kg)				
		Chloride *numerical limit or background, whichever is greater	ТРН	GRO + DRO	втех	Benzene
< 50' BGS		600	100		50	10
51' to 100'	Х	10000	2500	1000	50	10
>100'		20000	2500	1000	50	10
Surface Water	yes or no	if yes, then				
<300' from continuously flowing watercourse or other significant watercourse? <200' from lakebed, sinkhole or playa lake? Water Well or Water Source	Yes No					
<500 feet from spring or a private, domestic fresh water well used by less than 5 households for domestic or stock watering purposes? <1000' from fresh water well or spring? Human and Other Areas	No No	600	100		50	10
4300' from an occupied permanent residence, school, hospital,		600	100		50	10
institution or church?	No					
within incorporated municipal boundaries or within a defined municipal						
fresh water well field?	No					
<100' from wetland?	No					
within area overlying a subsurface mine	No					
within an unstable area?	No(Med.Karst)					
within a 100-year floodplain?	No					

Table 3: Summary of Confirmation Sample Results

Marathon Oil, Permian LLC Gravel Grinder FEE 23 28 18 WXY #010H NRM2032954682

		Depth of Sample (feet bgs)	Metho	od 8021B		Method 300.0			
Sample ID	Sample Date		ВТЕХ	Benzene	GRO	DRO	MRO	Total TPH	Cl-
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
NM	NMOCD Closure Criteria		50	10				100	1,400
CBH1			<0.221	<0.025	<4.9	<9.5	<47	<61.4	1,200
CBH2		4	<0.211	<0.023	<4.7	<8.6	<43	<56.3	1,400
СВН3			<0.220	<0.024	<4.9	<9.8	<49	<63.7	940
CBH4		4	<0.213	<0.024	<4.7	<9.9	<50	<64.6	630
CBH5	5/27/2021		<0.211	<0.023	<4.7	<8.8	<44	<57.5	530
СВН6	5/2//2021		<0.219	<0.024	<4.9	<9.9	<49	<63.8	2,300
CSW1			<0.219	<0.024	<4.9	<9.5	<48	<62.4	<59
CSW2		0-4	<0.222	<0.025	<4.9	<9.5	<48	<62.4	<60
CSW3		0-4	<0.225	<0.025	<5.0	<9.6	<48	<62.6	<60
CSW4			<0.217	<0.024	<4.8	<9.1	<45	<58.9	<59

"-" = Not Analyzed

BG: Background sample



APPENDIX A FORM C141 (Initial)

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

State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	NRM2032954682
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Marathon Oil Permian LLC	OGRID 372098
Contact Name Melodie Sanjari	Contact Telephone 575-988-8753
Contact email msanjari@marathonoil.com	Incident # (assigned by OCD)
Contact mailing address 4111 S. Tidwell Rd., Carlsbad, NM 8220	

Location of Release Source

Latitude	<u>32.29896924</u>	Longitude	<u>-104.13084921</u>
		(NAD 83 in	n decimal degrees to 5 decimal places)

Site Name GRAVEL GRINDER FEE 23 28 18 WXY #010H	Site Type: Oil & Gas Facility				
Date Release Discovered 11/13/2020	API# (if applicable) 30-015-44630				

Unit Letter	Section	Township	Range	County
N	18	23S	28E	Eddy

Surface Owner: State Federal Tribal Private (Name: McDonald
Surface Owner

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)								
Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)						
Produced Water	Volume Released (bbls) 213.8	Volume Recovered (bbls) 50						
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	⊠ Yes □ No						
Condensate	Volume Released (bbls)	Volume Recovered (bbls)						
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)						
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)						
Cause of Release								

MOC received a notification of a 4" valve failure on the San Mateo custody transfer that resulted in the release of approx.. 214 bbl. of produced water onto the pasture around the connect. The source was immediately isolated for repairs and initial response included the recovery of all standing fluids and the surficial scrape of the area most impacted. The impacted area will be remediated as detailed by 19.15.29.

Received by OCD: 6/14/2021(1259:59/PMI)
State of New Mexico
Page 2
Oil Conservation Division

Page deeof 119

Incident ID	NRM2032954682
District RP	
Facility ID	
Application ID	

Was this a major release as defined by	If YES, for what reason(s) does the respon	nsible party consider this a major release?
19.15.29.7(A) NMAC?		
⊠ Yes □ No	Volume	
If YES, was immediate no	otice given to the OCD? By whom? To wh	nom? When and by what means (phone, email, etc)?
On the evening of	of 11/13 OCD was notified via email of the	release. The landowner was also notified.
	Initial R	esponse
The responsible p	party must undertake the following actions immediated	y unless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.	
☐ The impacted area ha	s been secured to protect human health and	the environment.
Released materials ha	we been contained via the use of berms or o	likes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed an	d managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain	why:
Per 19.15.29.8 B. (4) NM	AC the responsible party may commence r	emediation immediately after discovery of a release. If remediation
has begun, please attach	a narrative of actions to date. If remedial	efforts have been successfully completed or if the release occurred blease attach all information needed for closure evaluation.
		best of my knowledge and understand that pursuant to OCD rules and
public health or the environr	nent. The acceptance of a C-141 report by the C	fications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have
		at to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws
and/or regulations.	The Control account reflects the operator of	responsionity for compliance with any other redeful, state, or local laws
Printed Name: Mel	odie Sanjari	Title: Environmental Professional
Signature: Melod	lie Sanjari	Date: 11/16/2020
email: <u>msanjari@mara</u>	thonoil.com	Telephone: 575-988-8753
OCD Only		
Received by: Ramona	Marcus	Date: 11/24/2020
, <u> </u>		· · · · · · · · · · · · · · · · · · ·

APPENDIX B NMOSE WELLS REPORT



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

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

(R=POD has been replaced, O=orphaned,

C=the file is

closed)

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

(quarters are smallest to

largest) (NAD83 UTM in meters)

(In feet)

POD Number	POI Sub Code basi	-		Q G 16 4	•	: Tws	Rna	Х	Υ	DistanceDe	epthWellDep		ater umn
C 04289 POD1	С	ED	1			23S	_	582387	3573717 🌍	200	91	78	13
<u>C 02180</u>	С	ED		3	18	23S	28E	581831	3574198*	537	140	80	60
C 03922 POD1	С	ED	3	2 3	18	23S	28E	581844	3574230 🌍	547	138	75	63
C 04225 POD1	С	ED	2	2 3	18	23S	28E	582167	3574424 🌍	562	120	71	49
C 03779 POD1	С	ED	2	3 3	18	23S	28E	581707	3574103	597	110	70	40
C 03082	С	ED	1	3 3	18	23S	28E	581529	3574096*	761	220	217	3

Average Depth to Water:

98 feet

Minimum Depth:

70 feet

Maximum Depth:

217 feet

Record 6
Count:

UTMNAD83 Radius Search (in meters):

Easting (X): 582256 Northing (Y): 3573869 Radius: 806

*UTM location was derived from PLSS - see Help

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

12/17/20 6:44 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

APPENDIX C PHOTO LOG

Received by OCD: 6/14/2021 1:59:59 PM







Gravel Grinder Fee 23 28 18 WXY#010H (NRM2032954682) Photo Log

Received by OCD: 6/14/2021 1:59:59 PM







Gravel Grinder Fee 23 28 18 WXY#010H (NRM2032954682) Photo Log

Received by OCD: 6/14/2021 1:59:59 PM







Gravel Grinder Fee 23 28 18 WXY#010H (NRM2032954682) Photo Log

APPENDIX D LABORATORY ANALYTICAL REPORTS



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

June 07, 2021

Ashley Maxwell Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: (575) 689-8801

FAX:

RE: Gravel Grinder OrderNo.: 2105C62

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 10 sample(s) on 5/29/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andy

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 6/7/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: CBH1

 Project:
 Gravel Grinder
 Collection Date: 5/27/2021 3:45:00 PM

 Lab ID:
 2105C62-001
 Matrix: SOIL
 Received Date: 5/29/2021 8:35:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	1200	60	mg/Kg	20	6/4/2021 6:40:48 PM	60438
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	TOM
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	6/4/2021 4:07:24 PM	60386
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	6/4/2021 4:07:24 PM	60386
Surr: DNOP	84.1	70-130	%Rec	1	6/4/2021 4:07:24 PM	60386
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/3/2021 3:28:22 PM	60379
Surr: BFB	104	70-130	%Rec	1	6/3/2021 3:28:22 PM	60379
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	6/3/2021 3:28:22 PM	60379
Toluene	ND	0.049	mg/Kg	1	6/3/2021 3:28:22 PM	60379
Ethylbenzene	ND	0.049	mg/Kg	1	6/3/2021 3:28:22 PM	60379
Xylenes, Total	ND	0.098	mg/Kg	1	6/3/2021 3:28:22 PM	60379
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	6/3/2021 3:28:22 PM	60379

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 13

Date Reported: 6/7/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: CBH2

Project: Gravel Grinder
 Collection Date: 5/27/2021 3:47:00 PM

 Lab ID: 2105C62-002
 Matrix: SOIL
 Received Date: 5/29/2021 8:35:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	1400	60	mg/Kg	20	6/4/2021 6:53:12 PM	60438
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: TOM
Diesel Range Organics (DRO)	ND	8.6	mg/Kg	1	6/4/2021 4:20:55 PM	60386
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	6/4/2021 4:20:55 PM	60386
Surr: DNOP	84.4	70-130	%Rec	1	6/4/2021 4:20:55 PM	60386
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	6/3/2021 4:38:49 PM	60379
Surr: BFB	104	70-130	%Rec	1	6/3/2021 4:38:49 PM	60379
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.023	mg/Kg	1	6/3/2021 4:38:49 PM	60379
Toluene	ND	0.047	mg/Kg	1	6/3/2021 4:38:49 PM	60379
Ethylbenzene	ND	0.047	mg/Kg	1	6/3/2021 4:38:49 PM	60379
Xylenes, Total	ND	0.094	mg/Kg	1	6/3/2021 4:38:49 PM	60379
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	6/3/2021 4:38:49 PM	60379

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

Qualifiers:

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

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

Page 2 of 13

Date Reported: 6/7/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: CBH3

Project: Gravel Grinder
 Collection Date: 5/27/2021 3:49:00 PM

 Lab ID: 2105C62-003
 Matrix: SOIL
 Received Date: 5/29/2021 8:35:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	940	60	mg/Kg	20	6/5/2021 4:22:45 PM	60454
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	6/4/2021 4:34:17 PM	60386
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	6/4/2021 4:34:17 PM	60386
Surr: DNOP	92.3	70-130	%Rec	1	6/4/2021 4:34:17 PM	60386
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/3/2021 5:49:27 PM	60379
Surr: BFB	102	70-130	%Rec	1	6/3/2021 5:49:27 PM	60379
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	6/3/2021 5:49:27 PM	60379
Toluene	ND	0.049	mg/Kg	1	6/3/2021 5:49:27 PM	60379
Ethylbenzene	ND	0.049	mg/Kg	1	6/3/2021 5:49:27 PM	60379
Xylenes, Total	ND	0.098	mg/Kg	1	6/3/2021 5:49:27 PM	60379
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	6/3/2021 5:49:27 PM	60379

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 13

Date Reported: 6/7/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: CBH4

 Project:
 Gravel Grinder
 Collection Date: 5/27/2021 3:52:00 PM

 Lab ID:
 2105C62-004
 Matrix: SOIL
 Received Date: 5/29/2021 8:35:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	630	61	mg/Kg	20	6/5/2021 4:35:09 PM	60454
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	6/4/2021 4:47:37 PM	60386
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	6/4/2021 4:47:37 PM	60386
Surr: DNOP	86.0	70-130	%Rec	1	6/4/2021 4:47:37 PM	60386
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	6/3/2021 6:13:09 PM	60379
Surr: BFB	101	70-130	%Rec	1	6/3/2021 6:13:09 PM	60379
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	6/3/2021 6:13:09 PM	60379
Toluene	ND	0.047	mg/Kg	1	6/3/2021 6:13:09 PM	60379
Ethylbenzene	ND	0.047	mg/Kg	1	6/3/2021 6:13:09 PM	60379
Xylenes, Total	ND	0.095	mg/Kg	1	6/3/2021 6:13:09 PM	60379
Surr: 4-Bromofluorobenzene	99.2	70-130	%Rec	1	6/3/2021 6:13:09 PM	60379

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 4 of 13

Date Reported: 6/7/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: CBH5

 Project:
 Gravel Grinder
 Collection Date: 5/27/2021 3:54:00 PM

 Lab ID:
 2105C62-005
 Matrix: SOIL
 Received Date: 5/29/2021 8:35:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	530	60	mg/Kg	20	6/5/2021 4:47:33 PM	60454
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: TOM
Diesel Range Organics (DRO)	ND	8.8	mg/Kg	1	6/4/2021 5:00:54 PM	60386
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	6/4/2021 5:00:54 PM	60386
Surr: DNOP	94.5	70-130	%Rec	1	6/4/2021 5:00:54 PM	60386
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	6/3/2021 6:36:38 PM	60379
Surr: BFB	105	70-130	%Rec	1	6/3/2021 6:36:38 PM	60379
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.023	mg/Kg	1	6/3/2021 6:36:38 PM	60379
Toluene	ND	0.047	mg/Kg	1	6/3/2021 6:36:38 PM	60379
Ethylbenzene	ND	0.047	mg/Kg	1	6/3/2021 6:36:38 PM	60379
Xylenes, Total	ND	0.094	mg/Kg	1	6/3/2021 6:36:38 PM	60379
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	6/3/2021 6:36:38 PM	60379

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 13

Date Reported: 6/7/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: CBH6

 Project:
 Gravel Grinder
 Collection Date: 5/27/2021 3:56:00 PM

 Lab ID:
 2105C62-006
 Matrix: SOIL
 Received Date: 5/29/2021 8:35:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	2300	60	mg/Kg	20	6/5/2021 5:24:45 PM	60454
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	6/4/2021 5:14:07 PM	60386
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	6/4/2021 5:14:07 PM	60386
Surr: DNOP	85.8	70-130	%Rec	1	6/4/2021 5:14:07 PM	60386
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/3/2021 7:00:06 PM	60379
Surr: BFB	103	70-130	%Rec	1	6/3/2021 7:00:06 PM	60379
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	6/3/2021 7:00:06 PM	60379
Toluene	ND	0.049	mg/Kg	1	6/3/2021 7:00:06 PM	60379
Ethylbenzene	ND	0.049	mg/Kg	1	6/3/2021 7:00:06 PM	60379
Xylenes, Total	ND	0.097	mg/Kg	1	6/3/2021 7:00:06 PM	60379
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	6/3/2021 7:00:06 PM	60379

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

Qualifiers:

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

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

Page 6 of 13

Date Reported: 6/7/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: CSW1

 Project:
 Gravel Grinder
 Collection Date: 5/27/2021 4:00:00 PM

 Lab ID:
 2105C62-007
 Matrix: SOIL
 Received Date: 5/29/2021 8:35:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	59	mg/Kg	20	6/5/2021 5:37:10 PM	60454
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	: ТОМ
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	6/4/2021 5:27:26 PM	60386
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	6/4/2021 5:27:26 PM	60386
Surr: DNOP	87.6	70-130	%Rec	1	6/4/2021 5:27:26 PM	60386
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/3/2021 7:24:01 PM	60379
Surr: BFB	103	70-130	%Rec	1	6/3/2021 7:24:01 PM	60379
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	6/3/2021 7:24:01 PM	60379
Toluene	ND	0.049	mg/Kg	1	6/3/2021 7:24:01 PM	60379
Ethylbenzene	ND	0.049	mg/Kg	1	6/3/2021 7:24:01 PM	60379
Xylenes, Total	ND	0.097	mg/Kg	1	6/3/2021 7:24:01 PM	60379
Surr: 4-Bromofluorobenzene	100	70-130	%Rec	1	6/3/2021 7:24:01 PM	60379

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 13

Date Reported: 6/7/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: CSW2

 Project:
 Gravel Grinder
 Collection Date: 5/27/2021 4:05:00 PM

 Lab ID:
 2105C62-008
 Matrix: SOIL
 Received Date: 5/29/2021 8:35:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	60	mg/Kg	20	6/5/2021 5:49:34 PM	60454
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	6/4/2021 5:40:25 PM	60386
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	6/4/2021 5:40:25 PM	60386
Surr: DNOP	88.8	70-130	%Rec	1	6/4/2021 5:40:25 PM	60386
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/3/2021 7:47:31 PM	60379
Surr: BFB	102	70-130	%Rec	1	6/3/2021 7:47:31 PM	60379
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	6/3/2021 7:47:31 PM	60379
Toluene	ND	0.049	mg/Kg	1	6/3/2021 7:47:31 PM	60379
Ethylbenzene	ND	0.049	mg/Kg	1	6/3/2021 7:47:31 PM	60379
Xylenes, Total	ND	0.099	mg/Kg	1	6/3/2021 7:47:31 PM	60379
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	6/3/2021 7:47:31 PM	60379

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

Qualifiers:

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

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

Page 8 of 13

Date Reported: 6/7/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: CSW3

 Project:
 Gravel Grinder
 Collection Date: 5/27/2021 4:10:00 PM

 Lab ID:
 2105C62-009
 Matrix: SOIL
 Received Date: 5/29/2021 8:35:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	60	mg/Kg	20	6/5/2021 6:01:59 PM	60454
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	6/4/2021 5:53:41 PM	60386
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	6/4/2021 5:53:41 PM	60386
Surr: DNOP	97.1	70-130	%Rec	1	6/4/2021 5:53:41 PM	60386
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/3/2021 8:11:14 PM	60379
Surr: BFB	104	70-130	%Rec	1	6/3/2021 8:11:14 PM	60379
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	6/3/2021 8:11:14 PM	60379
Toluene	ND	0.050	mg/Kg	1	6/3/2021 8:11:14 PM	60379
Ethylbenzene	ND	0.050	mg/Kg	1	6/3/2021 8:11:14 PM	60379
Xylenes, Total	ND	0.10	mg/Kg	1	6/3/2021 8:11:14 PM	60379
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	6/3/2021 8:11:14 PM	60379

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

Qualifiers:

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

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

Page 9 of 13

Date Reported: 6/7/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: CSW4

 Project:
 Gravel Grinder
 Collection Date: 5/27/2021 4:15:00 PM

 Lab ID:
 2105C62-010
 Matrix: SOIL
 Received Date: 5/29/2021 8:35:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	59	mg/Kg	20	6/5/2021 6:14:23 PM	60454
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	6/4/2021 6:07:06 PM	60386
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	6/4/2021 6:07:06 PM	60386
Surr: DNOP	90.1	70-130	%Rec	1	6/4/2021 6:07:06 PM	60386
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	6/3/2021 9:21:52 PM	60379
Surr: BFB	102	70-130	%Rec	1	6/3/2021 9:21:52 PM	60379
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	6/3/2021 9:21:52 PM	60379
Toluene	ND	0.048	mg/Kg	1	6/3/2021 9:21:52 PM	60379
Ethylbenzene	ND	0.048	mg/Kg	1	6/3/2021 9:21:52 PM	60379
Xylenes, Total	ND	0.097	mg/Kg	1	6/3/2021 9:21:52 PM	60379
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	6/3/2021 9:21:52 PM	60379

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

Qualifiers:

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

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

Page 10 of 13

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

2105C62 07-Jun-21

WO#:

Client: Souder, Miller & Associates

Project: Gravel Grinder

Sample ID: MB-60438 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **60438** RunNo: **78868**

Prep Date: 6/4/2021 Analysis Date: 6/4/2021 SeqNo: 2766096 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-60438 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 60438 RunNo: 78868

Prep Date: 6/4/2021 Analysis Date: 6/4/2021 SeqNo: 2766097 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 92.8 90 110

Sample ID: MB-60454 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 60454 RunNo: 78875

Prep Date: 6/5/2021 Analysis Date: 6/5/2021 SeqNo: 2766319 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-60454 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 60454 RunNo: 78875

Prep Date: 6/5/2021 Analysis Date: 6/5/2021 SeqNo: 2766320 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 92.9 90 110

Qualifiers:

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

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

Page 11 of 13

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

2105C62 07-Jun-21

WO#:

Client: Souder, Miller & Associates

Project: Gravel Grinder

Sample ID: 2105c62-001ams

Sample ID: mb-60379 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: **PBS** Batch ID: **60379** RunNo: **78826**

Prep Date: 6/1/2021 Analysis Date: 6/3/2021 SeqNo: 2765214 Units: mq/Kq

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 1000 1000 104 70 130

Sample ID: Ics-60379 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 60379 RunNo: 78826

Prep Date: 6/1/2021 Analysis Date: 6/3/2021 SeqNo: 2765215 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 26 5.0 25.00 O 105 78.6 131

TestCode: EPA Method 8015D: Gasoline Range

Surr: BFB 1200 1000 116 70 130

Client ID: CBH1 Batch ID: 60379 RunNo: 78826

SampType: MS

Prep Date: 6/1/2021 Analysis Date: 6/3/2021 SeqNo: 2765217 Units: mg/Kg

Result PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte LowLimit Qual Gasoline Range Organics (GRO) 27 4.8 23.90 0 112 61.3 114

 Gasoline Range Organics (GRO)
 27
 4.8
 23.90
 0
 112
 61.3
 114

 Surr: BFB
 1100
 956.0
 117
 70
 130

Sample ID: 2105c62-001amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: CBH1 Batch ID: 60379 RunNo: 78826

Prep Date: 6/1/2021 Analysis Date: 6/3/2021 SeqNo: 2765218 Units: mq/Kq

SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Result PQL LowLimit Qual 0.203 Gasoline Range Organics (GRO) 27 4.8 23.92 112 61.3 n 114 20 Surr: BFB 1100 956.9 117 70 130 0 0

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical 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 13

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2105C62 07-Jun-21

Client: Souder, Miller & Associates

Project: Gravel Grinder

Sample ID: mb-60379 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 60379 RunNo: 78826

Prep Date: 6/1/2021 Analysis Date: 6/3/2021 SeqNo: 2765239 Units: mg/Kg

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

Benzene ND 0.025 Toluene ND 0.050 Ethylbenzene ND 0.050 Xylenes, Total ND 0.10

Surr: 4-Bromofluorobenzene 1.0 1.000 102 70 130

Sample ID: LCS-60379 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: 60379 RunNo: 78826

Prep Date: 6/1/2021	Analysis [Date: 6/	3/2021	\$	SeqNo: 2	765240	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	1.000	0	97.5	80	120			
Toluene	0.99	0.050	1.000	0	99.3	80	120			
Ethylbenzene	0.98	0.050	1.000	0	98.5	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.4	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		105	70	130			

Sample ID: 2105c62-002ams SampType: MS TestCode: EPA Method 8021B: Volatiles

Client ID: CBH2 Batch ID: 60379 RunNo: 78826

Prep Date: 6/1/2021	Analysis [Date: 6/	3/2021	S	SeqNo: 2	765246	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	0.9862	0	99.0	76.3	120			
Toluene	0.99	0.049	0.9862	0	100	78.5	120			
Ethylbenzene	0.99	0.049	0.9862	0	100	78.1	124			
Xylenes, Total	3.0	0.099	2.959	0	101	79.3	125			
Surr: 4-Bromofluorobenzene	1.0		0.9862		103	70	130			

TestCode: EPA Method 8021B: Volatiles Sample ID: 2105c62-002amsd SampType: MSD

Client ID: CBH2 Batch ID: 60379 RunNo: 78826

Prep Date: 6/1/2021	Analysis [Date: 6/	3/2021	S	SeqNo: 2	765247	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.025	0.9823	0	101	76.3	120	1.65	20	
Toluene	1.0	0.049	0.9823	0	104	78.5	120	2.69	20	
Ethylbenzene	1.0	0.049	0.9823	0	103	78.1	124	3.04	20	
Xylenes, Total	3.1	0.098	2.947	0	104	79.3	125	2.80	20	
Surr: 4-Bromofluorobenzene	1.0		0.9823		103	70	130	0	0	

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 13 of 13



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

Sample Log-In Check List

Client Name: Souder, Miller & Work Order Number: 2105C62 RcptNo: 1 **Associates** Salgot Received By: Sean Livingston 5/29/2021 8:35:00 AM Completed By: Sean Livingston 5/29/2021 9:30:34 AM (11), 05/29/2021 Reviewed By: Chain of Custody 1. Is Chain of Custody complete? Yes 🗸 No 🗌 Not Present 2. How was the sample delivered? Courier Log In 3. Was an attempt made to cool the samples? Yes 🗸 No 🗌 NA 🗌 No 🗌 4. Were all samples received at a temperature of >0° C to 6.0°C Yes 🗸 NA 🗍 5. Sample(s) in proper container(s)? Yes 🗸 No Yes 🗸 No 🗌 6. Sufficient sample volume for indicated test(s)? 7. Are samples (except VOA and ONG) properly preserved? Yes 🗸 No 🗌 8. Was preservative added to bottles? Yes No V NA 🗌 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No NA 🗸 Yes No 🗸 10. Were any sample containers received broken? # of preserved bottles checked No 🗌 Yes 🗸 for pH: 11. Does paperwork match bottle labels? (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? Yes 🗸 No 🗌 12. Are matrices correctly identified on Chain of Custody? 13. Is it clear what analyses were requested? Yes 🗸 No 🗌 Checked by: SK SZ9 (2) 14. Were all holding times able to be met? Yes 🗸 No 🗌 (If no, notify customer for authorization.) Special Handling (if applicable) Yes No 🗌 15. Was client notified of all discrepancies with this order? NA V Person Notified: Date: By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 16. Additional remarks: 17. Cooler Information Cooler No Temp °C Condition Seal No Seal Intact Seal Date Signed By 0.7 Good

HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request	81 Pesticides/8082 PCB's B (Method 504.1) Hs by 8310 or 8270SIMS RA 8 Metals Pt, Rt, NO ₃ , NO ₂ , PO ₄ , SO ₄ TO (Semi-VOA) Sol (Semi-VOA)	85 BS BS BS BS BS BS								Time: Relinquished by: Received by: Via: δ Date Time $\frac{2}{3}$ Startus δ S
94 F	EX MTBE / TMB's (8021) H:8015D(GRO / DRO / MRO)								Remarks:	Villidia
S-clay THI	Makedle DNO DNO ST. 0.7 ± 5 = 0.7 (°C) ative HEAL NO.	2102012	7.00	003	500	900,4	00%	010	Time 34 905	Date Time $\frac{1}{8}$ $\frac{1}{8}$ $\frac{1}{8}$ Date of this serves as notice of this
d Time: d TRush S-(ager:	Туре							Via:	Via: Via: Country Via: Via: Via: Via: Via: Via: Via: Via:
Turn-Around T ☐ Standard Project Name: ☐ Project #:	Project Manager: Sampler: On Ice: TYes # of Coolers: i Cooler Temp(instuding cF): Container Preserva	Type and #	_						Received by:	Received by:
Chain-of-Custody Record E. SMA-Calsbad g Address: e #:		x Sample Name	CBH2	C	CBHS	C5W1	CSB2	CSWY	Relinquished by:	Relinquished by: (M.C. C.
ain-of-	kage: d on: □ Az Co □ Other	ne Matrix	4	3.49	3:54	5:56 4:00	4:10	20		e: Reling
Chain-Client: SM Mailing Address: 8/16/505		Date Time	3.4	(A) (A)	300	6 3	7 3	4:(5		Date: Time:

APPENDIX E APPROVED WORK PLAN

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

Latitude <u>32.29896924</u>

State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	NRM2032954682
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Marathon Oil Permian LLC	OGRID 372098
Contact Name Melodie Sanjari	Contact Telephone 575-988-8753
Contact email msanjari@marathonoil.com	Incident # (assigned by OCD)
Contact mailing address 4111 S. Tidwell Rd., Carlsbad, NM 8220	

Location of Release Source

(NAD 83 in decimai de	grees to 5 decimal places)
Site Name GRAVEL GRINDER FEE 23 28 18 WXY #010H	Site Type: Oil & Gas Facility
Date Release Discovered 11/13/2020	API# (if applicable) 30-015-44630

Unit Letter	Section	Township	Range	County
N	18	23S	28E	Eddy

Longitude

Surface Owner: State Federal Tribal Private (Name: McDonald	`
Surface Owner: State Federal Findal Private (Name: McDonata)

Nature and Volume of Release

Material	Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)					
Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)				
Produced Water	Volume Released (bbls) 213.8	Volume Recovered (bbls) 50				
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	⊠ Yes □ No				
Condensate	Volume Released (bbls)	Volume Recovered (bbls)				
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)				
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)				
Cause of Release						

MOC received a notification of a 4" valve failure on the San Mateo custody transfer that resulted in the release of approx.. 214 bbl. of produced water onto the pasture around the connect. The source was immediately isolated for repairs and initial response included the recovery of all standing fluids and the surficial scrape of the area most impacted. The impacted area will be remediated as detailed by 19.15.29.

Received by OCD: 6/14/2021 1:59:59 PM State of New Mexico Page 2 Oil Conservation Division

73 7	Th	100	~ ~	W/A
$-\nu\alpha \epsilon$	YOU CA	1/2 /	2017	7 62
Pag		S 40		10
	-0		15	

Incident ID	NRM2032954682
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the respon	nsible party consider this a major release?
release as defined by		
19.15.29.7(A) NMAC?	Volume	
⊠ Yes □ No	Volume	
If YES, was immediate no	otice given to the OCD? By whom? To wh	om? When and by what means (phone, email, etc)?
On the evening of	of 11/13 OCD was notified via email of the	release. The landowner was also notified.
	Initial Ro	esponse
The responsible p	party must undertake the following actions immediatel	y unless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.	
The impacted area ha	s been secured to protect human health and	the environment.
		ikes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed and	l managed appropriately.
_ •	d above have not been undertaken, explain	
		•
B 1015 200 B (0.33)	7.0	
has begun, please attach	a narrative of actions to date. If remedial	emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred lease attach all information needed for closure evaluation.
I hereby certify that the info	rmation given above is true and complete to the	pest of my knowledge and understand that pursuant to OCD rules and
		fications and perform corrective actions for releases which may endanger
		CD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In
	f a C-141 report does not relieve the operator of	responsibility for compliance with any other federal, state, or local laws
and/or regulations.		
Printed Name: Mel	odie Sanjari	Title: Environmental Professional
Signature: Melod	lie Sanjari	Date: 11/16/2020
Signature	<u> </u>	Date: 11/10/2020
email: <u>msanjari@mara</u> t	thonoil.com	Telephone: <u>575-988-8753</u>
OCD Only		
Received by:		Date:

State of New Mexico

Page 44 of 119

New Mexico

Incident ID	NRM2032954682
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	70 (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?					
Are the lateral extents of the release within a 100-year floodplain?					
Did the release impact areas not on an exploration, development, production, or storage site?					
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil				
Characterization Report Checklist: Each of the following items must be included in the report.					
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wel	ls.				
☐ 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					
Laboratory data including chain of custody					

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

Received by OCD: 6/14/2021 1:59:59 PM State of New Mexico Page 4 Oil Conservation Division Page 45 4 f 1 19

	0 0 1
Incident ID	NRM2032954682
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Printed Name: Melodie Sanjari Title: Environmental Professional Melodie Sanjari Signature: Date: 1/18/2021 email: msanjari@marathonoil.com Telephone: 575-988-8753 **OCD Only** Date: 01/18/2021 Cristina Eads Received by:

Page 46 of 119

Incident ID	NRM2032954682
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.					
 ✓ Detailed description of proposed remediation technique ✓ Scaled sitemap with GPS coordinates showing delineation points ✓ Estimated volume of material to be remediated ✓ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC ✓ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) 					
<u>Deferral Requests Only</u> : Each of the following items must be confirmed as part of any request for deferral of remediation.					
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.					
Extents of contamination must be fully delineated.					
Contamination does not cause an imminent risk to human health, the environment, or groundwater.					
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Printed Name: Melodie Sanjari Title: Environmental Professional					
Signature: Melodie Sanjari Date: 1/18/2021					
email: msanjari@marathonoil.com Telephone: 575-988-8753					
OCD Only					
Received by: Cristina Eads Date: 01/18/2021					
Approved					
Signature: Date: 04/12/2021					



January 14, 2021

#5E28980-BG14

NMOCD District 2 811 S. First St Artesia, New Mexico 88210

SUBJECT: Remediation Plan for the Gravel Grinder Fee 23 28 18 WXY #010H Release (NRM2032954682), Eddy County, New Mexico

To Whom It May Concern:

On behalf of Marathon Oil, Permian LLC, Souder, Miller & Associates (SMA) has prepared this Remediation Plan that describes the delineation and proposed remediation for a release of liquids related to oil and gas production activities at the Gravel Grinder Fee 23 28 18 WXY #010H header. The site is in Unit N, Section 18, Township 23S, Range 28E, Eddy County, New Mexico, on private land. Figure 1 illustrates the vicinity and site location on an USGS 7.5 minute quadrangle map.

Table 1, summarizes information regarding the release.

Table 1: Release Information and Closure Criteria									
Name	Gravel Grinder Fee 23 28 18 WXY #010H	Marathon Oil, Permian LLC							
API Number	30-015-44630	30-015-44630 Location 32.29896924 -104.13084921							
Tracking Number	N	RM2032954682							
Estimated Date of Release	November 13, 2020	Date Reported to NMOCD	November 13, 2020						
Land Owner	Private	Reported To	NMOCD						
Source of Release	Valve failure on Marathon/San Mate	Valve failure on Marathon/San Mateo produced water header							
Released Volume	213.8 bbls	Released Material	Produced Water						
Recovered Volume	50 bbls	Net Release	163.8 bbls						
NMOCD Closure Criteria	<50 feet to groundwater								
SMA Response Dates	11/13, 11/17/2020								

Gravel Grinder Fee 23 28 18 WXY #010H Remediation Plan January 14, 2021 Page 2 of 4

1.0 Background

On November 13, 2020, a release was discovered at the header that is fed by the Gravel Grinder Fee 23 28 18 WXY #010H facility. Initial response activities were conducted by Marathon Oil, and included source elimination and containment activities, including the excavation of the top 3-6 inches of impacted soil within the release area and the recovery of 50 bbl. of produced water. Figure 1 illustrates the vicinity and site location, Figures 2, and 3A illustrate the release location. The C-141 form is included in Appendix A.

2.0 Site Information and Closure Criteria

The Gravel Grinder Fee 23 28 18 WXY #010H is an active production facility located approximately 2 miles northwest of Loving, New Mexico on privately-owned land at an elevation of approximately 3,701 feet above mean sea level (amsl).

Depth to Groundwater

Based upon New Mexico Office of the State Engineer data (Appendix B), the average depth to groundwater at the release site is estimated to be between 70-80 feet bgs.

Wellhead Protection Area

There are six (6) known water sources within ½-mile of the location, according to the New Mexico Office of the State Engineer (NMOSE) online water well database. The average depth to groundwater for these wells is 87 feet bgs, with the nearest well (C-04289 POD1) located 724 feet to the southeast with a depth to groundwater recorded at 78 feet bgs.

Distance to Nearest Significant Watercourse

The nearest significant watercourse is an unnamed canal, located directly 90 feet to the south of the release.

Based on the information presented herein, the applicable NMOCD Closure Criteria for this site is for a groundwater depth of less than 50 feet bgs.

3.0 Release Characterization Activities and Findings

On November 13, 2020 and December 17, 2020 SMA personnel guided the initial response activities and additional delineation activities. SMA collected soil samples around the release site and throughout the visibly stained area. The area of visual impact was located entirely outside the boundary of any production or storage facilities; however, much of the release is encompassed by an active produced water tie-in that is used by Marathon and San Mateo personnel on a daily basis.

During initial response activities, soil samples were field screened for chloride using an electrical conductivity (EC) meter.

A total of six (6) vertical delineation sample locations (SL1-SL6) within the established release area along with five (5) additional sidewall sample locations (SW1-SW5) were investigated using a direct-push drill rig, to depths up to thirteen (13) feet bgs. A minimum of two samples were collected at each sampling location and field-screened using the methods above. Sidewall samples SW1-SW5 came back elevated, so the "-1" designation represents the horizontal extent of the release area being moved out laterally 1 foot. A total of forty-nine (49) samples were collected for laboratory analysis for total chloride using EPA Method 300.0; benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA Method 8021B; and motor, diesel and gasoline range organics (MRO, DRO, and GRO) by EPA Method 8015D.

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Gravel Grinder Fee 23 28 18 WXY #010H Remediation Plan January 14, 2021 Page 3 of 4

An additional twelve (12) samples were collected from two background sample locations (BG1, BG2). Also note that due to no detection of hydrocarbon impacts in shallow samples, deeper samples were not sampled for benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA Method 8021B; and motor, diesel and gasoline range organics (MRO, DRO, and GRO) by EPA Method 8015D.

Laboratory results are summarized in Table 3.

4.0 Proposed Soil Remediation Work Plan

As the release area is within in an active Marathon Oil ROW lease, SMA proposes a hydrocarbon targeted excavation of the top four feet of impact in the release area. SMA will guide the excavation by collecting soil samples for field screening for chloride using an EC meter.

Laboratory results from initial response activities indicate the presence of elevated chlorides in background samples. Based on these background samples, SMA is requesting that the RRAL for chloride be adjusted to 1400 mg/Kg. Trace amounts of chloride impact will remain in place and be addressed during ROW reclamation activities.

Confirmation samples will be comprised of representative wall and base 5-point composite samples. SMA is proposing the collection of six (6) sample locations (BH1-BH6) at the base of the excavation and four (4) sidewall samples (SW1-SW4). Samples will be submitted for laboratory analysis for total chloride using EPA Method 300.0; benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA Method 8021B; and motor, diesel and gasoline range organics (MRO, DRO, and GRO) by EPA Method 8015D. The proposed sample locations can be found on Figure 3B.

Approximately 420 cubic yards of contaminated soil is projected to be removed and replaced with clean backfill material in order to return the surface to previous contours. The contaminated soil will be transported for disposal at R360 Environmental Solutions near Hobbs, NM, an NMOCD-permitted disposal facility. Upon approval by NMOCD, the projected timeline for completion of remediation activities is approximately 90 days.

5.0 Scope and Limitations

The scope of our services included: assessment sampling; verifying release stabilization, regulatory liaison, and preparing this remediation plan. All work has been performed in accordance with generally accepted professional environmental consulting practices for oil and gas releases in the Permian Basin in New Mexico.

If there are any questions regarding this report, please contact either Ashley Maxwell at 505-320-8975 or Shawna Chubbuck at 505-325-7535.

Submitted by: SOUDER, MILLER & ASSOCIATES

Reviewed by:

Ashley Maxwell Project Scientist Shawna Chubbuck Senior Scientist Gravel Grinder Fee 23 28 18 WXY #010H Remediation Plan January 14, 2021 Page 4 of 4

ATTACHMENTS:

Figures:

Figure 1: Site Map

Figure 2: Surface Water Radius Map

Figure 3A: Initial Site and Sample Location Map

Figure 3B: Proposed Excavation and Confirmation Sample Map

Tables:

Table 2: NMOCD Closure Criteria Justification

Table 3: Summary of Sample Results

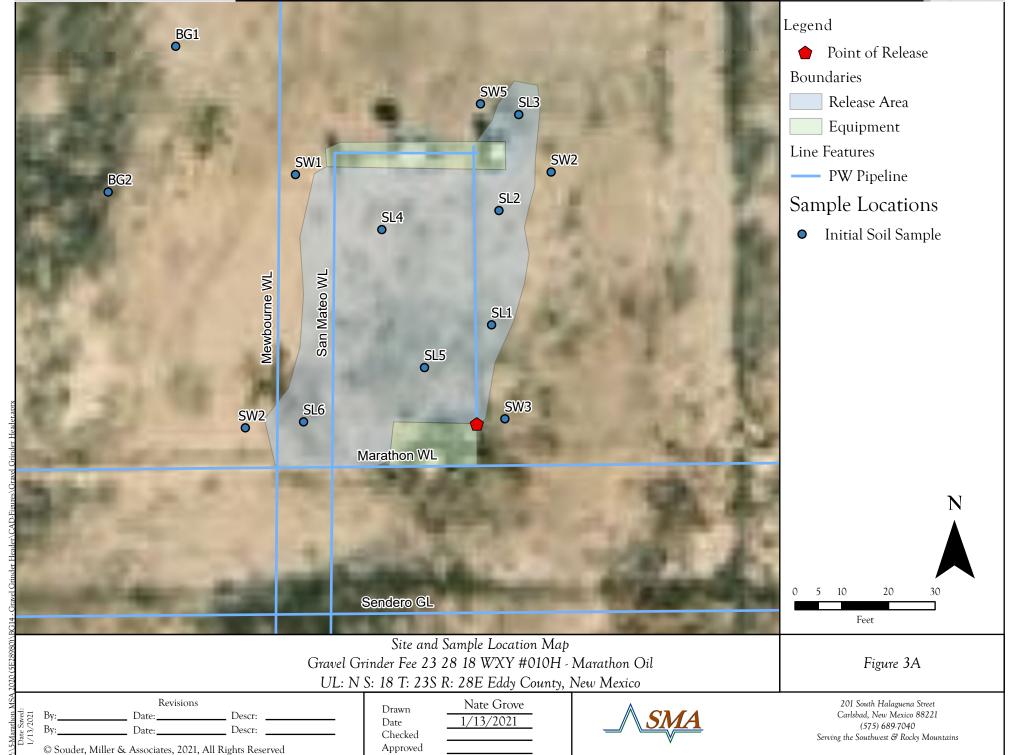
Appendices:

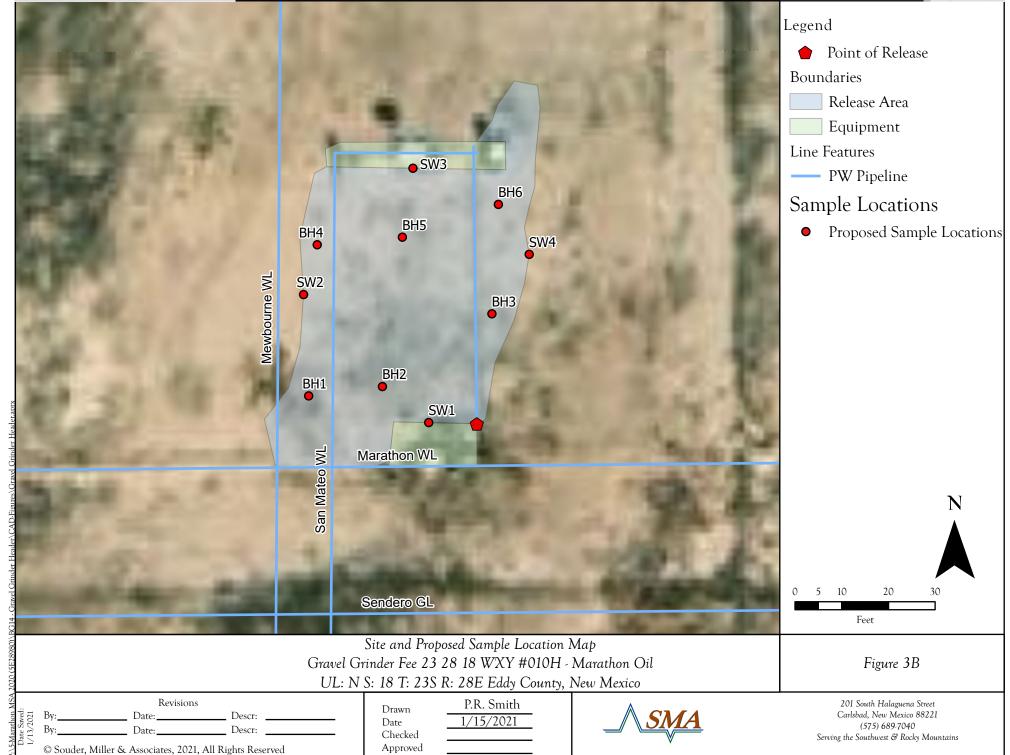
Appendix A: Form C141

Appendix B: NMOSE Wells Report Appendix C: Sampling Protocol

Appendix D: Laboratory Analytical Reports

FIGURES





TABLES

Received by OCD: 6/14/2021 1:59:59 PM

Site Information (19.15.29.11.A(2, 3, and 4) NMAC	Source/Notes			
Depth to Groundwater (feet bgs)	New Mexico Office of the State Engineer			
Hortizontal Distance From All Water Sources Within 1/2 Mile (ft)	724	United States Geological Survey		
Hortizontal Distance to Nearest Significant Watercourse (ft)	90	United States Geological Survey		

Closure Criteria (19.15	5.29.12.B(4) and	Table 1 NMAC)				
	Closure Criteria (units in mg/kg)					
Depth to Groundwater	Chloride *numerical limit or background, whichever is greater	ТРН	GRO + DRO	втех	Benzene	
< 50' BGS		600	100		50	10
51' to 100'	Х	10000	2500	1000	50	10
>100'		20000	2500	1000	50	10
Surface Water	yes or no		if yes	s, then		
<300' from continuously flowing watercourse or other significant watercourse? <200' from lakebed, sinkhole or playa lake?	Yes No					
Water Well or Water Source	ı					
<500 feet from spring or a private, domestic fresh water well used by less than 5 households for domestic or stock watering purposes? <1000' from fresh water well or spring?	No No					
Human and Other Areas	I NO	600	100		50	10
<300' from an occupied permanent residence, school, hospital, institution or church?	No		100		30	10
within incorporated municipal boundaries or within a defined	1.00					
municipal fresh water well field?	No					
<100' from wetland?	No					
within area overlying a subsurface mine						
within an unstable area?						
within a 100-year floodplain?	No					

Sample Damp					Metho	Method 8021B		Method 8015D			
NMOCO Closure Criteria (50-100)	Sample ID	Sample Date					GRO			Cl-	
11/16/20					mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
11/16/20 2			ure Criteria (50-100	0)						100	600
11/16/20 3											
Bot 17/17/20											
12/17/20	DC1										
12/17/20	501										
11/16/20 2					-	-	-	-	-	-	
11/16/20		12/17/20	10	in-situ	-	-	-	-	-	-	910
Borname		11/16/20	2	in-situ	<0.220	<0.024	<4.9	<9.3	<47	<61.2	3200
12/17/20					<0.215	<0.024	<4.8	<9.4	<47	<61.2	
17/17/20	BG2				-	-				-	
11/15/20					-	-				-	
S11											
Second Color											
12/17/20	SL1										
11/16/20					-	-					
11/16/20 2.5 excavate 0.221 0.025 0.49 0.9.7 0.48 0.26.6 5.20			13		-	-	-	-	-	-	
SLA		11/16/20	1.5	excavate	<0.219	<0.024	<4.9	<9.9	<50	<64.8	12000
Size											
12/17/20	61.0										
12/17/20	SLZ										
12/17/20					-	-	-	-	-	-	
11/16/20						-		_		_	
11/16/20					<0.213	<0.024	<4.7	<9.4			
S18					<0.222				<50		
12/17/20		11/16/20	3.5	excavate	<0.225	<0.025	<5.0	<9.7	<49	<63.7	1100
12/17/20	SI 3	12/17/20	4	excavate	-	-	-	-	-	-	3200
12/17/20	020				-	-	-	-	-	-	
12/28/20					-						
12/17/20					-	-	-	-	-	-	
12/17/20					-	-	-	-	-	-	
SL4 12/17/20					-		-	-		-	
12/17/20	CI 4				-	-	-	-	-	-	
12/17/20	3L4	12/17/20	8	in-situ	-	-	-	-	-	-	3000
12/17/20		12/17/20		in-situ	-	-	-	-	-	-	880
12/17/20					-	-	-	-	-	-	
12/17/20					-	-	-	-	-	-	
12/17/20					-	-	-	-	-		
12/17/20	SL5								-		
12/17/20					-		-	-			
SL6 12/17/20 4 excavate - - - - - - 4900 12/17/20 6 in-situ - - - - - - 4900 12/17/20 8 in-situ - - - - - - 740 12/17/20 10 in-situ -					-		-	-	-	-	
SL6 12/17/20 6 in-situ - - - - - 4900 12/17/20 8 in-situ - - - - - - 740 12/17/20 10 in-situ - - - - - - 1800 12/17/20 12 in-situ -		12/17/20	2	excavate	-	1	-	-	-	-	9600
SL6 12/17/20 8 in-situ - - - - - 740 12/17/20 10 in-situ - - - - - - 1800 12/17/20 12 in-situ -											
12/17/20	61.6										
12/17/20 12 in-situ - - - - - - 680 12/28/20 13 in-situ - - - - - - 380 SW1 12/17/20 0-4 excavate - - - - - - - 460 SW2 12/17/20 0-4 excavate - - - - - - - 3700 SW2-1 12/28/20 0-4 in-situ - - - - - - - - 560 SW3 12/17/20 0-4 excavate - - - - - - - - - - 460 SW3-1 12/28/20 0-4 in-situ -	SLb										
12/28/20 13 in-situ - - - - - - 380 SW1 12/17/20 0-4 excavate - - - - - - 1500 SW1-1 12/28/20 0-4 in-situ - - - - - - 460 SW2 12/17/20 0-4 excavate - - - - - - - - 560 SW3 12/17/20 0-4 excavate - - - - - - - 1700 SW3-1 12/28/20 0-4 in-situ - - - - - - - - 460 SW4 12/17/20 0-4 excavate - - - - - - - - - - - - - - - - - - -											
SW1 12/17/20 0-4 excavate - - - - - 1500 SW1-1 12/28/20 0-4 in-situ - - - - - - 460 SW2 12/17/20 0-4 excavate - - - - - - 3700 SW2-1 12/28/20 0-4 in-situ - - - - - - - 560 SW3 12/17/20 0-4 excavate - - - - - - 1700 SW4-1 12/28/20 0-4 in-situ - - - - - - - - 440 SW5 12/17/20 0-4 excavate - <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>											
SW1-1 12/28/20 0-4 in-situ - - - - - - 460 SW2 12/17/20 0-4 excavate - - - - - - 3700 SW2-1 12/28/20 0-4 in-situ - - - - - - - 560 SW3 12/17/20 0-4 excavate - - - - - - - 1700 SW3-1 12/28/20 0-4 in-situ -	SW1										
SW2-1 12/28/20 0-4 in-situ - - - - - 560 SW3 12/17/20 0-4 excavate - - - - - 1700 SW3-1 12/28/20 0-4 in-situ - - - - - - 460 SW4 12/17/20 0-4 excavate - - - - - - 440 SW5 12/17/20 0-4 excavate - - - - - - 2400			0-4	in-situ				-		-	
SW3 12/17/20 0-4 excavate - - - - - 1700 SW3-1 12/28/20 0-4 in-situ - - - - - 460 SW4 12/17/20 0-4 excavate - - - - - 3400 SW4-1 12/28/20 0-4 in-situ - - - - - - 440 SW5 12/17/20 0-4 excavate - - - - - - 2400	SW2		0-4	excavate	-	-	-	-	-	-	3700
SW3-1 12/28/20 0-4 in-situ - - - - - 460 SW4 12/17/20 0-4 excavate - - - - - 3400 SW4-1 12/28/20 0-4 in-situ - - - - - - 440 SW5 12/17/20 0-4 excavate - - - - - - 2400											
SW4 12/17/20 0-4 excavate - - - - - 3400 SW4-1 12/28/20 0-4 in-situ - - - - - - 440 SW5 12/17/20 0-4 excavate - - - - - - 2400											
SW4-1 12/28/20 0-4 in-situ - - - - - - 440 SW5 12/17/20 0-4 excavate - - - - - - 2400										-	
SW5 12/17/20 0-4 excavate 2400										-	
	SW5-1	12/17/20	0-4	in-situ							290

"--" = Not Analyzed

BG: Background sample

APPENDIX A INITIAL C141

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

Latitude <u>32.29896924</u>

State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	NRM2032954682
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Marathon Oil Permian LLC	OGRID 372098
Contact Name Melodie Sanjari	Contact Telephone 575-988-8753
Contact email msanjari@marathonoil.com	Incident # (assigned by OCD)
Contact mailing address 4111 S. Tidwell Rd., Carlsbad, NM 8220	

Location of Release Source

-104.13084921

(NAD 83 in decimal de	grees to 5 decimal places)
Site Name GRAVEL GRINDER FEE 23 28 18 WXY #010H	Site Type: Oil & Gas Facility

Longitude

Site Ivallie Gi	CAVEL GIG	INDER I EE 25 20	710 WAI #010II	Site Type. On & Ga	Site Type. On & Gas Facility					
Date Release	Discovered	11/13/2020		API# (if applicable)	30-015-44630					
Unit Letter	Section	Township	Range	County						

Surface Owner	:: State	☐ Federal ☐ Tr	ribal 🛛 Private (I	Name: McDonald_		_)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)									
Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)							
Produced Water	Volume Released (bbls) 213.8	Volume Recovered (bbls) 50							
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	⊠ Yes □ No							
Condensate	Volume Released (bbls)	Volume Recovered (bbls)							
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)							
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)							
Cause of Release									

MOC received a notification of a 4" valve failure on the San Mateo custody transfer that resulted in the release of approx.. 214 bbl. of produced water onto the pasture around the connect. The source was immediately isolated for repairs and initial response included the recovery of all standing fluids and the surficial scrape of the area most impacted. The impacted area will be remediated as detailed by 19.15.29.

Received by OCD: 6/14/2021/1:59:59 PM1
State of New Mexico
Page 2
Oil Conservation Division

7377		0.0	e a	W 60
Duna	de l	401	5.19	7 67
Page	111		/ (#	10
		J		_

Incident ID	NRM2032954682
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the respon	nsible party consider this a major release?
release as defined by		
19.15.29.7(A) NMAC?	Volume	
⊠ Yes □ No	Volume	
If YES, was immediate no	otice given to the OCD? By whom? To wh	nom? When and by what means (phone, email, etc)?
On the evening of	of 11/13 OCD was notified via email of the	release. The landowner was also notified.
	Initial R	esponse
The responsible p	party must undertake the following actions immediated	y unless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.	
The impacted area ha	s been secured to protect human health and	the environment.
		likes, absorbent pads, or other containment devices.
	ecoverable materials have been removed an	d managed appropriately.
_ •	d above have not been undertaken, explain	
ir air the actions accorde	a doo vo have <u>nov</u> occir undertaken, explain	,.
has begun, please attach	a narrative of actions to date. If remedial	emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred blease attach all information needed for closure evaluation.
I hereby certify that the info	rmation given above is true and complete to the	best of my knowledge and understand that pursuant to OCD rules and
		fications and perform corrective actions for releases which may endanger
failed to adequately investig	ate and remediate contamination that pose a thre	OCD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In
	f a C-141 report does not relieve the operator of	responsibility for compliance with any other federal, state, or local laws
and/or regulations.		
Printed Name: Mel	odie Sanjari	Title: Environmental Professional
Signature: <u>Melod</u>	lio Caniari	D-4 11/1/2020
Signature:Mewo	<u>ue surgur o</u>	Date: 11/16/2020
email: <u>msanjari@mara</u>	thonoil com	Telephone: 575-988-8753
eman. <u>msanjari@mara</u>	<u>monon.com</u>	Telephone <u>575 700 0755</u>
OCD Only		
Received by: Ramona	Marcus	Date: 11/24/2020
Received by:		Date, 11/27/2020

Spill Calculation Tool



tanding Liquid Inputs:							
			Avg. Liquid		Total Volume	Water Volume	Oil Volume
-	Length (ft.)	Width (ft.)	Depth (in.)	% Oil	(bbls)	(bbls)	(bbls)
Rectangle Area #1					0.00	0.00	0.00
Rectangle Area #2					0.00	0.00	0.00
Rectangle Area #3					0.00	0.00	0.00
Rectangle Area #4					0.00	0.00	0.00
Rectangle Area #5					0.00	0.00	0.00
Rectangle Area #6					0.00	0.00	0.00
Rectangle Area #7					0.00	0.00	0.00
Rectangle Area #8					0.00	0.00	0.00
-				Liquid Volume:	0.00	0.00	0.00
Saturated Soil Inputs:		Soil Type:	Sandy Avg. Saturated		Total Volume	Water Volume	Oil Volume
<u>Jaturatea Jon Impats.</u>		Jon Type.		J	Total Volume	Water Volume	Oil Volume
	Length (ft.)	Width (ft.)	Depth (in.)	% Oil	(bbls)	(bbls)	(bbls)
Rectangle Area #1		4446.48	36	0%	213.83	213.83	0.00
Rectangle Area #2				0%	0.00	0.00	0.00
Rectangle Area #3				0%	0.00	0.00	0.00
Rectangle Area #4				0%	0.00	0.00	0.00
Rectangle Area #5				0%	0.00	0.00	0.00
Rectangle Area #6				0%	0.00	0.00	0.00
Rectangle Area #7					0.00	0.00	0.00
Rectangle Area #8					0.00	0.00	0.00
-				Saturated Volume	213.83	213.83	0.00
Volume I	Recovered and no	t included in Stand	ding Liquid Inputs :	% Oil	Total Volume (bbls)	Water Volume (bbls)	Oil Volume (bbls)
					Total Volume	Water Volume	Oil Volume
				_	(bbls)	(bbls)	(bbls)

	United Well Services, LLC.	
	P.O. Box 2121 Carlsbad, NM 88221	
	Phone# 575-649-5634 • uws1999@gmail.com	2
	Date 11-13-20 No. 85731	
	Company MARATHON	
	Location/Lease 9RAVEL GRINDER FER 10H	
	Disposal/Ticket # NGL Tick # 1194-16563	24.15
		DE!
	Water StationTicket #	Die
-	Top GageBottom Gage	
	Truck No. 4435	
	START TIME 1:00 PM END TIME 6:00 PM HOURS 5:00	
	□ Fresh waterBarrels	
X	☐ Brine water Barrels	
18 A	Produced waterBarrels	Section 1
	MOtherBarrels	
	□ KCL Barrels	
	Job Description DRIVER ON location	
	working on location	
	DRIVER ON YARD	
	Time leaving yard	
	Time arriving location	
	Time leaving location	
	Time arriving disposal/water st. □ AM □ PM	
	Time leaving disposal/water st. □ AM □ PM	
	Time arriving yard	
	Driver Name ARCENES Echemendia	
	Driver Name / // C	
	Co-Personnel)())	
TEXT		
distribution.		

APPENDIX B NMOSE WELLS REPORT



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

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

(R=POD has been replaced, O=orphaned,

C=the file is

closed)

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

(quarters are smallest to

largest) (NAD83 UTM in meters)

(In feet)

POD Number	POD Sub- basin	County		Q 16		Sec	Tws	Rng	X	Y	DistanceDe	epthWellDep		ater Iumn
C 04289 POD1	С	ED	1	1	2	19	23S	28E	582387	3573717 🌑	200	91	78	13
C 02180	С	ED			3	18	23S	28E	581831	3574198*	537	140	80	60
C 03922 POD1	С	ED	3	2	3	18	23S	28E	581844	3574230 🌑	547	138	75	63
C 04225 POD1	С	ED	2	2	3	18	23S	28E	582167	3574424 🌑	562	120	71	49
C 03779 POD1	С	ED	2	3	3	18	23S	28E	581707	3574103 🌑	597	110	70	40
C 03082	С	ED	1	3	3	18	23S	28E	581529	3574096*	761	220	217	3

Average Depth to Water:

98 feet

Minimum Depth:

70 feet

Maximum Depth:

217 feet

Record 6 Count:

UTMNAD83 Radius Search (in meters):

Easting (X): 582256 Northing (Y): 3573869 Radius: 806

*UTM location was derived from PLSS - see Help

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

12/17/20 6:44 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

APPENDIX C SAMPLING PROTOCOL



Sampling Protocol

Representatives from SMA chose the Judgmental Sampling Method as described in EPA's Final Sampling Guidance for SW-846, 2002 to adequately quantify contaminant concentrations Graver Grinder Fee 23 28 18 WXY #010H Location. The utility of this particular method functions on the sufficient knowledge of the contaminant, which we possess. This design is also useful when identifying the composition of a release, which we have documented. In addition, this sampling design was chosen for this project because of the locations uniform soil type, and the several operational considerations (such as the liner within the battery and the construction of a new facility) that precluded the implementation of a different statistical design.

The soil samples were collected in laboratory supplied containers in accordance with this sampling protocol, immediately placed on ice and sent under standard chain-of-custody protocols to Hall Environmental Analysis Laboratory (HEAL) in Albuquerque, New Mexico for analysis. A total of 61 samples were collected for laboratory analysis for total chloride using EPA Method 300.0; benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA Method 8021B; and motor, diesel and gasoline range organics (MRO, DRO, and GRO) by EPA Method 8015D.

Sampling Analysis Field Quality Assurance Procedures

A unique sample numbering was used to identify each sample collected and designated for on-site and off-site laboratory analysis. The purpose of this numbering scheme was to provide a tracking system for the retrieval of analytical and field data on each sample. Sample identification numbers were recorded on sample labels or tags, field notes, chain-of-custody records (COC) and all other applicable documentation used during the project. Sample labels were affixed to all sample containers during sampling activities. Information was recorded on each sample container label at the time of sample collection. The information recorded on the labels were as follows: sample identification number; sample type (discrete or composite); site name and area/location number; analysis to be performed; type of chemical preservative present in container; date and time of sample collection; and sample collector's name and initials. All samples were packed in ice in an approved rigid body container, custody sealed signed and shipped to the appropriate laboratory via insured currier service.

COC procedures implemented for the project provided documentation of the handling of each sample from the time of collection until completion of laboratory analysis. A COC form serves as a legal record of possession of the sample. A sample is considered to be under custody if one or more of the following criteria are met: the sample is in the sampler's possession; the sample is in the sampler's view after being in possession; the sample was in the sampler's possession and then was placed into a locked area to prevent tampering; and/or the sample is in a designated secure area. Custody was documented throughout the project field sampling activities by a chain-of custody form initiated each day during which samples are collected. Container custody seals placed on either individual samples or on the rigid body container were used to ensure that no sample tampering occurs between the time the samples are placed into the containers and the time the containers are opened for analysis at the laboratory. Container custody seals were signed and dated by the individual responsible for completing the COC form contained within the container.

APPENDIX D LABORATORY ANALYTICAL REPORTS



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

November 20, 2020

Ashley Maxwell Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: (575) 689-8801

FAX:

RE: Gravel Grinder Header OrderNo.: 2011831

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 13 sample(s) on 11/17/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

anded

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report Lab Order 2011831

Date Reported: 11/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SL1-7'

Project: Gravel Grinder Header Collection Date: 11/16/2020

Lab ID: 2011831-001 **Matrix:** SOIL **Received Date:** 11/17/2020 10:44:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	3200	150	mg/Kg	50	11/18/2020 10:23:36 AM 56508
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: BRM
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	11/17/2020 5:13:17 PM 56505
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	11/17/2020 5:13:17 PM 56505
Surr: DNOP	89.0	30.4-154	%Rec	1	11/17/2020 5:13:17 PM 56505
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	11/18/2020 10:48:28 AM 56503
Surr: BFB	93.1	75.3-105	%Rec	1	11/18/2020 10:48:28 AM 56503
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	11/18/2020 10:48:28 AM 56503
Toluene	ND	0.048	mg/Kg	1	11/18/2020 10:48:28 AM 56503
Ethylbenzene	ND	0.048	mg/Kg	1	11/18/2020 10:48:28 AM 56503
Xylenes, Total	ND	0.096	mg/Kg	1	11/18/2020 10:48:28 AM 56503
Surr: 4-Bromofluorobenzene	97.7	80-120	%Rec	1	11/18/2020 10:48:28 AM 56503

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

Qualifiers:

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

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

Page 1 of 17

Analytical Report Lab Order 2011831

Date Reported: 11/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SL1-6'

Project: Gravel Grinder Header Collection Date: 11/16/2020

Lab ID: 2011831-002 **Matrix:** SOIL **Received Date:** 11/17/2020 10:44:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	4000	150	mg/Kg	50	11/18/2020 10:36:00 AM 56508
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: BRM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	11/17/2020 5:22:54 PM 56505
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	11/17/2020 5:22:54 PM 56505
Surr: DNOP	90.4	30.4-154	%Rec	1	11/17/2020 5:22:54 PM 56505
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	11/18/2020 11:12:08 AM 56503
Surr: BFB	95.3	75.3-105	%Rec	1	11/18/2020 11:12:08 AM 56503
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	11/18/2020 11:12:08 AM 56503
Toluene	ND	0.050	mg/Kg	1	11/18/2020 11:12:08 AM 56503
Ethylbenzene	ND	0.050	mg/Kg	1	11/18/2020 11:12:08 AM 56503
Xylenes, Total	ND	0.099	mg/Kg	1	11/18/2020 11:12:08 AM 56503
Surr: 4-Bromofluorobenzene	100	80-120	%Rec	1	11/18/2020 11:12:08 AM 56503

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 17

Analytical Report Lab Order 2011831

Date Reported: 11/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SL2-3.5'

Project: Gravel Grinder Header

Collection Date: 11/16/2020

Lab ID: 2011831-003 **Matrix:** SOIL **Received Date:** 11/17/2020 10:44:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	VP
Chloride	1800	60	mg/Kg	20	11/18/2020 1:17:48 AM	56508
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst:	BRM
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	11/17/2020 5:32:32 PM	56505
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	11/17/2020 5:32:32 PM	56505
Surr: DNOP	82.9	30.4-154	%Rec	1	11/17/2020 5:32:32 PM	56505
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	11/18/2020 11:35:40 AM	A 56503
Surr: BFB	94.1	75.3-105	%Rec	1	11/18/2020 11:35:40 AM	A 56503
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.025	mg/Kg	1	11/18/2020 11:35:40 AM	A 56503
Toluene	ND	0.050	mg/Kg	1	11/18/2020 11:35:40 AM	A 56503
Ethylbenzene	ND	0.050	mg/Kg	1	11/18/2020 11:35:40 AM	A 56503
Xylenes, Total	ND	0.10	mg/Kg	1	11/18/2020 11:35:40 AM	A 56503
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	11/18/2020 11:35:40 AM	A 56503

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 17

Date Reported: 11/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SL2-2.5'

Project: Gravel Grinder Header

Collection Date: 11/16/2020

Lab ID: 2011831-004 **Matrix:** SOIL **Received Date:** 11/17/2020 10:44:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	VP
Chloride	520	60	mg/Kg	20	11/18/2020 1:30:12 AM	56508
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst:	BRM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	11/17/2020 5:42:11 PM	56505
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	11/17/2020 5:42:11 PM	56505
Surr: DNOP	89.4	30.4-154	%Rec	1	11/17/2020 5:42:11 PM	56505
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/18/2020 11:59:06 AM	1 56503
Surr: BFB	93.2	75.3-105	%Rec	1	11/18/2020 11:59:06 AM	1 56503
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.025	mg/Kg	1	11/18/2020 11:59:06 AM	1 56503
Toluene	ND	0.049	mg/Kg	1	11/18/2020 11:59:06 AM	1 56503
Ethylbenzene	ND	0.049	mg/Kg	1	11/18/2020 11:59:06 AM	1 56503
Xylenes, Total	ND	0.098	mg/Kg	1	11/18/2020 11:59:06 AM	1 56503
Surr: 4-Bromofluorobenzene	98.6	80-120	%Rec	1	11/18/2020 11:59:06 AM	1 56503

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

Qualifiers:

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

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

Page 4 of 17

Date Reported: 11/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SL2-1.5'

Project: Gravel Grinder Header

Collection Date: 11/16/2020

Lab ID: 2011831-005 **Matrix:** SOIL **Received Date:** 11/17/2020 10:44:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	: VP
Chloride	12000	600	mg/Kg	200) 11/18/2020 10:48:24 AN	A 56508
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst:	BRM
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	11/17/2020 5:51:50 PM	56505
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	11/17/2020 5:51:50 PM	56505
Surr: DNOP	111	30.4-154	%Rec	1	11/17/2020 5:51:50 PM	56505
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/18/2020 12:22:31 PN	A 56503
Surr: BFB	95.0	75.3-105	%Rec	1	11/18/2020 12:22:31 PN	A 56503
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.024	mg/Kg	1	11/18/2020 12:22:31 PN	A 56503
Toluene	ND	0.049	mg/Kg	1	11/18/2020 12:22:31 PN	A 56503
Ethylbenzene	ND	0.049	mg/Kg	1	11/18/2020 12:22:31 PN	A 56503
Xylenes, Total	ND	0.097	mg/Kg	1	11/18/2020 12:22:31 PN	A 56503
Surr: 4-Bromofluorobenzene	102	80-120	%Rec	1	11/18/2020 12:22:31 PN	A 56503

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 17

Date Reported: 11/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SL3-3.5'

Project: Gravel Grinder Header

Collection Date: 11/16/2020

Lab ID: 2011831-006 **Matrix:** SOIL **Received Date:** 11/17/2020 10:44:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed 1	Batch
EPA METHOD 300.0: ANIONS					Analyst: \	VP
Chloride	1100	60	mg/Kg	20	11/18/2020 1:55:01 AM	56508
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: I	BRM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	11/17/2020 6:01:28 PM	56505
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	11/17/2020 6:01:28 PM	56505
Surr: DNOP	96.8	30.4-154	%Rec	1	11/17/2020 6:01:28 PM	56505
EPA METHOD 8015D: GASOLINE RANGE					Analyst: I	NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	11/18/2020 12:45:51 PM	56503
Surr: BFB	94.0	75.3-105	%Rec	1	11/18/2020 12:45:51 PM	56503
EPA METHOD 8021B: VOLATILES					Analyst: I	NSB
Benzene	ND	0.025	mg/Kg	1	11/18/2020 12:45:51 PM	56503
Toluene	ND	0.050	mg/Kg	1	11/18/2020 12:45:51 PM	56503
Ethylbenzene	ND	0.050	mg/Kg	1	11/18/2020 12:45:51 PM	56503
Xylenes, Total	ND	0.10	mg/Kg	1	11/18/2020 12:45:51 PM	56503
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	11/18/2020 12:45:51 PM	56503

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

Qualifiers:

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

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

Page 6 of 17

Date Reported: 11/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SL3-2.5'

Project: Gravel Grinder Header

Collection Date: 11/16/2020

Lab ID: 2011831-007 **Matrix:** SOIL **Received Date:** 11/17/2020 10:44:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	VP
Chloride	810	60	mg/Kg	20	11/18/2020 2:07:26 AM	56508
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst:	BRM
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	11/17/2020 6:11:08 PM	56505
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	11/17/2020 6:11:08 PM	56505
Surr: DNOP	94.2	30.4-154	%Rec	1	11/17/2020 6:11:08 PM	56505
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/18/2020 1:09:11 PM	56503
Surr: BFB	92.7	75.3-105	%Rec	1	11/18/2020 1:09:11 PM	56503
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.025	mg/Kg	1	11/18/2020 1:09:11 PM	56503
Toluene	ND	0.049	mg/Kg	1	11/18/2020 1:09:11 PM	56503
Ethylbenzene	ND	0.049	mg/Kg	1	11/18/2020 1:09:11 PM	56503
Xylenes, Total	ND	0.099	mg/Kg	1	11/18/2020 1:09:11 PM	56503
Surr: 4-Bromofluorobenzene	99.3	80-120	%Rec	1	11/18/2020 1:09:11 PM	56503

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 17

Date Reported: 11/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SL3-1.5'

Project: Gravel Grinder Header

Collection Date: 11/16/2020

Lab ID: 2011831-008 **Matrix:** SOIL **Received Date:** 11/17/2020 10:44:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	6700	300	mg/Kg	100	11/18/2020 11:00:49 AM	И 56508
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	11/17/2020 6:20:46 PM	56505
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	11/17/2020 6:20:46 PM	56505
Surr: DNOP	99.7	30.4-154	%Rec	1	11/17/2020 6:20:46 PM	56505
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	11/18/2020 2:19:28 PM	56503
Surr: BFB	89.9	75.3-105	%Rec	1	11/18/2020 2:19:28 PM	56503
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	11/18/2020 2:19:28 PM	56503
Toluene	ND	0.047	mg/Kg	1	11/18/2020 2:19:28 PM	56503
Ethylbenzene	ND	0.047	mg/Kg	1	11/18/2020 2:19:28 PM	56503
Xylenes, Total	ND	0.095	mg/Kg	1	11/18/2020 2:19:28 PM	56503
Surr: 4-Bromofluorobenzene	98.0	80-120	%Rec	1	11/18/2020 2:19:28 PM	56503

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

Qualifiers:

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

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

Page 8 of 17

Date Reported: 11/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BG2-2'

Project: Gravel Grinder Header Collection Date: 11/16/2020

Lab ID: 2011831-009 **Matrix:** SOIL **Received Date:** 11/17/2020 10:44:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batc	ch
EPA METHOD 300.0: ANIONS					Analyst: VP	
Chloride	3200	150	mg/Kg	50	11/18/2020 11:13:13 AM 5650	36
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: BRN	VI
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	11/17/2020 6:30:24 PM 5650) 5
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	11/17/2020 6:30:24 PM 5650)5
Surr: DNOP	97.6	30.4-154	%Rec	1	11/17/2020 6:30:24 PM 5650)5
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB	3
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/18/2020 2:43:12 PM 5650	03
Surr: BFB	93.2	75.3-105	%Rec	1	11/18/2020 2:43:12 PM 5650	03
EPA METHOD 8021B: VOLATILES					Analyst: NSB	3
Benzene	ND	0.024	mg/Kg	1	11/18/2020 2:43:12 PM 5650	03
Toluene	ND	0.049	mg/Kg	1	11/18/2020 2:43:12 PM 5650	03
Ethylbenzene	ND	0.049	mg/Kg	1	11/18/2020 2:43:12 PM 5650	03
Xylenes, Total	ND	0.098	mg/Kg	1	11/18/2020 2:43:12 PM 5650	03
Surr: 4-Bromofluorobenzene	100	80-120	%Rec	1	11/18/2020 2:43:12 PM 5650)3

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

Qualifiers:

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

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

Page 9 of 17

Date Reported: 11/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BG2-3'

Project: Gravel Grinder Header Collection Date: 11/16/2020

Lab ID: 2011831-010 **Matrix:** SOIL **Received Date:** 11/17/2020 10:44:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Bat	tch
EPA METHOD 300.0: ANIONS					Analyst: VP	
Chloride	2800	150	mg/Kg	50	11/18/2020 12:52:31 PM 565	508
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: BRI	M
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	11/17/2020 6:40:03 PM 565	505
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	11/17/2020 6:40:03 PM 565	505
Surr: DNOP	98.9	30.4-154	%Rec	1	11/17/2020 6:40:03 PM 565	505
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSI	В
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	11/18/2020 3:06:29 PM 565	503
Surr: BFB	93.5	75.3-105	%Rec	1	11/18/2020 3:06:29 PM 565	503
EPA METHOD 8021B: VOLATILES					Analyst: NSI	В
Benzene	ND	0.024	mg/Kg	1	11/18/2020 3:06:29 PM 565	503
Toluene	ND	0.048	mg/Kg	1	11/18/2020 3:06:29 PM 565	503
Ethylbenzene	ND	0.048	mg/Kg	1	11/18/2020 3:06:29 PM 565	503
Xylenes, Total	ND	0.095	mg/Kg	1	11/18/2020 3:06:29 PM 565	503
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	11/18/2020 3:06:29 PM 565	503

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

Qualifiers:

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

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

Page 10 of 17

Date Reported: 11/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: BG1-3'

Project: Gravel Grinder Header

Collection Date: 11/16/2020

Lab ID: 2011831-011 **Matrix:** SOIL **Received Date:** 11/17/2020 10:44:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	660	59	mg/Kg	20	11/18/2020 3:21:54 AM	56508
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	11/17/2020 6:49:42 PM	56505
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	11/17/2020 6:49:42 PM	56505
Surr: DNOP	98.9	30.4-154	%Rec	1	11/17/2020 6:49:42 PM	56505
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	11/18/2020 3:29:48 PM	56503
Surr: BFB	92.5	75.3-105	%Rec	1	11/18/2020 3:29:48 PM	56503
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.023	mg/Kg	1	11/18/2020 3:29:48 PM	56503
Toluene	ND	0.047	mg/Kg	1	11/18/2020 3:29:48 PM	56503
Ethylbenzene	ND	0.047	mg/Kg	1	11/18/2020 3:29:48 PM	56503
Xylenes, Total	ND	0.093	mg/Kg	1	11/18/2020 3:29:48 PM	56503
Surr: 4-Bromofluorobenzene	99.4	80-120	%Rec	1	11/18/2020 3:29:48 PM	56503

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

Qualifiers:

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

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

Page 11 of 17

Date Reported: 11/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BG1-2'

Project: Gravel Grinder Header Collection Date: 11/16/2020

Lab ID: 2011831-012 **Matrix:** SOIL **Received Date:** 11/17/2020 10:44:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	620	60	mg/Kg	20	11/18/2020 3:34:19 AM	56508
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	11/17/2020 6:59:22 PM	56505
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	11/17/2020 6:59:22 PM	56505
Surr: DNOP	100	30.4-154	%Rec	1	11/17/2020 6:59:22 PM	56505
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	11/18/2020 3:53:09 PM	56503
Surr: BFB	93.8	75.3-105	%Rec	1	11/18/2020 3:53:09 PM	56503
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.025	mg/Kg	1	11/18/2020 3:53:09 PM	56503
Toluene	ND	0.050	mg/Kg	1	11/18/2020 3:53:09 PM	56503
Ethylbenzene	ND	0.050	mg/Kg	1	11/18/2020 3:53:09 PM	56503
Xylenes, Total	ND	0.10	mg/Kg	1	11/18/2020 3:53:09 PM	56503
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	11/18/2020 3:53:09 PM	56503

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

Qualifiers:

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

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

Page 12 of 17

Date Reported: 11/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: BG1-1'

Project: Gravel Grinder Header

Collection Date: 11/16/2020

Lab ID: 2011831-013 **Matrix:** SOIL **Received Date:** 11/17/2020 10:44:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	: VP
Chloride	800	60	mg/Kg	20	11/18/2020 3:46:43 AM	56508
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst:	BRM
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	11/17/2020 7:09:02 PM	56505
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	11/17/2020 7:09:02 PM	56505
Surr: DNOP	95.8	30.4-154	%Rec	1	11/17/2020 7:09:02 PM	56505
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	11/18/2020 4:16:28 PM	56503
Surr: BFB	93.7	75.3-105	%Rec	1	11/18/2020 4:16:28 PM	56503
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.025	mg/Kg	1	11/18/2020 4:16:28 PM	56503
Toluene	ND	0.050	mg/Kg	1	11/18/2020 4:16:28 PM	56503
Ethylbenzene	ND	0.050	mg/Kg	1	11/18/2020 4:16:28 PM	56503
Xylenes, Total	ND	0.10	mg/Kg	1	11/18/2020 4:16:28 PM	56503
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	11/18/2020 4:16:28 PM	56503

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 17

Hall Environmental Analysis Laboratory, Inc.

WO#: **2011831 20-Nov-20**

Client: Souder, Miller & Associates

Project: Gravel Grinder Header

Sample ID: MB-56508 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 56508 RunNo: 73414

Prep Date: 11/17/2020 Analysis Date: 11/17/2020 SeqNo: 2585833 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-56508 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 56508 RunNo: 73414

Prep Date: 11/17/2020 Analysis Date: 11/17/2020 SeqNo: 2585834 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 93.3 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 14 of 17

Hall Environmental Analysis Laboratory, Inc.

WO#: **2011831**

20-Nov-20

Client: Souder, Miller & Associates

Project: Gravel Grinder Header

Sample ID: LCS-56505	SampT	Type: LC	s	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: LCSS	Batcl	h ID: 56	505	F	RunNo: 7	3426				
Prep Date: 11/17/2020	Analysis D	Date: 11	/17/2020	S	SeqNo: 2	585499	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	94.1	70	130			
Surr: DNOP	4.6		5.000		92.2	30.4	154			
Sample ID: MB-56505	SampT	Гуре: МЕ	BLK	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: DDG	D - (-)	LD. 50		_		0.400				

Client ID: PBS	Batch	ID: 56	505	R	RunNo: 7 :	3426				
Prep Date: 11/17/2020	Analysis Date: 11/17/2020 SeqNo: 2					2585500 Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10		_	-		•		_	
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.7		10.00		96.7	30.4	154			

Sample ID: MB-56518	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 56518	RunNo: 73443								
Prep Date: 11/18/2020	Analysis Date: 11/18/2020	SeqNo: 2586506	Units: %Rec							
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual							
Surr: DNOP	10 10.00	103 30.4	154							

Sample ID: LCS-56518	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 56518	RunNo: 73443
Prep Date: 11/18/2020	Analysis Date: 11/18/2020	SeqNo: 2586507 Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	4.9 5.000	97.0 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 15 of 17

Hall Environmental Analysis Laboratory, Inc.

WO#: 2011831

20-Nov-20

Client: Souder, Miller & Associates **Project:** Gravel Grinder Header

Sample ID: MB-56503 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: PBS

Batch ID: 56503 RunNo: 73447 Prep Date: 11/17/2020 Analysis Date: 11/19/2020 SeqNo: 2586929

Units: mq/Kq

PQL SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result LowLimit HighLimit Qual Gasoline Range Organics (GRO) ND 5.0

92.7

75.3

TestCode: EPA Method 8015D: Gasoline Range

105

Surr: BFB 930 1000

Sample ID: Ics-56503 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 56503 RunNo: 73447

Prep Date: 11/17/2020 Analysis Date: 11/19/2020 SeqNo: 2586930 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 5.0 25.00 O 89.8 72.5 106 Surr: BFB 1000 1000 104 75.3 105

Sample ID: mb-56536 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 56536 RunNo: 73491

Prep Date: 11/18/2020 Analysis Date: 11/19/2020 SeqNo: 2588062 Units: %Rec

PQL HighLimit SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result LowLimit Qual Surr: BFB 920 1000 91.9 75.3 105

Client ID: LCSS Batch ID: 56536 RunNo: 73491

SampType: LCS

Analysis Date: 11/19/2020 Prep Date: 11/18/2020 SeqNo: 2588063 Units: %Rec

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

1000 1000 75.3 Surr: BFB 100 105

Qualifiers:

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

Sample ID: Ics-56536

- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

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

Page 16 of 17

Hall Environmental Analysis Laboratory, Inc.

WO#: **2011831**

20-Nov-20

Client: Souder, Miller & Associates

Project: Gravel Grinder Header

Sample ID: LCS-56503	Samp ⁻	SampType: LCS TestCode: EPA Method 8021B: Volatiles									
Client ID: LCSS	Batc	h ID: 56	503	F	RunNo: 7	3447					
Prep Date: 11/17/2020	Analysis [Date: 11	/19/2020	5	SeqNo: 2	586977	Units: mg/k	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.91	0.025	1.000	0	90.9	80	120				
Toluene	0.94	0.050	1.000	0	93.9	80	120				
Ethylbenzene	0.94	0.050	1.000	0	93.6	80	120				
Xylenes, Total	2.8	0.10	3.000	0	93.4	80	120				
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120				
Sample ID: MB-56503	Samp	SampType: MBLK TestCode: EPA Method 8021B: Volatiles									
Client ID: PBS	Batc	h ID: 56	503	F	RunNo: 7	3447					
Prep Date: 11/17/2020	Analysis [Date: 11	/19/2020	9	SeqNo: 2	586993	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: 4-Bromofluorobenzene	1.0		1.000		100	80	120				
Sample ID: mb-56536	Samp	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Vola	tiles	·	<u>'</u>	
Client ID: PRS	Bato	h ID: 56	536	F	RunNo: 7	3491					

Sample ID: mb-56536	: mb-56536 SampType: MBLK					TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch	536	F											
Prep Date: 11/18/2020	Analysis D	ate: 1	1/19/2020	S	SeqNo: 2	588108	Units: %Red	:						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Surr: 4-Bromofluorobenzene	0.98		1.000		98.2	80	120							

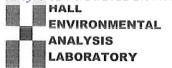
Sample ID: LCS-56536	SampT	s	Tes	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch	ID: 56	536	F	tunNo: 7 3	3491						
Prep Date: 11/18/2020	Analysis Date: 11/19/2020 SeqNo: 2588109 U						Units: %Red	;				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Surr: 4-Bromofluorobenzene	U 08		1 000		97.9	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

- 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 17



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

Sample Log-In Check List

Clie	ent Name:	Souder, Mi Associates		Work	Order Num	ber: 2011831	RcptNo:	1	
Rec	eived By:	Cheyenne	Cason	11/17/20	020 10:44:0	00 AM			
Con	npleted By:	Emily Mod	cho	11/17/20	020 10:56:3	55 AM			
Rev	iewed By: S	366 11	17/20						
<u>Cha</u>	in of Cus	tody							
1. Is	s Chain of Cu	ustody comp	lete?			Yes 🗸	No 🗌	Not Present	
2. H	low was the	sample deliv	ered?			Courier			
Log	g In								
3. W	Vas an attem	pt made to o	cool the samp	oles?		Yes 🗸	No 🗌	NA 🗌	
4. W	lere all samp	les received	at a tempera	ature of >0° C t	o 6.0°C	Yes 🗸	No 🗌	NA 🗆	
5. s	ample(s) in p	oroper contai	iner(s)?			Yes 🗸	No 🗌		
6. Si	ufficient sam	ple volume f	or indicated t	est(s)?		Yes 🗸	No 🗌		
7. Ar	re samples (e	except VOA	and ONG) pr	operly preserve	d?	Yes 🗸	No 🗌		
8. W	as preservat	ive added to	bottles?			Yes	No 🗸	NA 🗌	
9. Re	eceived at lea	ast 1 vial wit	h headspace	<1/4" for AQ V	OA?	Yes 🗌	No 🗌	NA 🗹	
10. W	Vere any sam	nple containe	ers received l	oroken?		Yes	No 🗸	# of preserved	
	oes paperwo lote discrepa			<i>(</i>)		Yes 🗸	No 🗆	bottles checked for pH: (<2 or	>12 unless noted)
12. Ar	re matrices c	orrectly iden	tified on Cha	in of Custody?		Yes 🗸	No 🗌	Adjusted?	
13. Is	it clear what	analyses we	ere requested	1?		Yes 🗸	No 🗌		11.7/20
	ere all holdir no, notify cu	11 Table 1 (11 11 11 11 11 11 11 11 11 11 11 11)		Yes 🗸	No 🗌	Checked by:	11/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1
Spec	ial Handli	ing (if app	olicable)						
15. W	Vas client no	tified of all di	screpancies	with this order?		Yes	No 🗌	NA 🗹	
	Person	Notified:			Date:	Principal and the second secon	A A THE RESIDENCE OF THE PARTY		
	By Who	m:			Via:	eMail	Phone Fax	In Person	
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16. <i>A</i>	Additional rer								
17. <u>c</u>	Cooler Infor	7							
	Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By		
	1	1.8	Good	Yes					

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

December 24, 2020

Ashley Maxwell Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: (575) 689-8801

FAX:

RE: Gravel Grinder OrderNo.: 2012A09

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 40 sample(s) on 12/19/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

anded

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order: 2012A09

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 12/24/2020

12/22/2020 5:33:03 AM 57136

12/22/2020 6:10:17 AM 57136

CLIENT: Souder, Miller & Associates Lab Order: 2012A09

Project: Gravel Grinder

Chloride

Lab ID: 2012A09-001 Collection Date: 12/17/2020

Client Sample ID: BG1-4' Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed **Batch ID**

60

mg/Kg

20

EPA METHOD 300.0: ANIONS Analyst: VP

820 Lab ID: 2012A09-002 **Collection Date:** 12/17/2020

Client Sample ID: Matrix: SOIL

RL Qual Units DF Date Analyzed **Analyses** Result **Batch ID**

EPA METHOD 300.0: ANIONS Analyst: VP

Chloride 940 60 20 12/22/2020 5:45:28 AM 57136 mg/Kg

2012A09-003 **Collection Date:** 12/17/2020 Lab ID:

Client Sample ID: BG1-8' Matrix: SOIL

Result RL Qual Units DF Date Analyzed **Analyses Batch ID**

EPA METHOD 300.0: ANIONS Analyst: VP

Chloride 680 60 12/22/2020 5:57:52 AM 57136 mq/Kq

Lab ID: 2012A09-004 **Collection Date:** 12/17/2020

Client Sample ID: BG1-10' Matrix: SOIL

Result **RL Qual Units DF** Date Analyzed **Batch ID Analyses**

EPA METHOD 300.0: ANIONS Analyst: VP

910

60

Lab ID: 2012A09-005 **Collection Date:** 12/17/2020

Client Sample ID: BG2-4' Matrix: SOIL

RL Qual Units DF Date Analyzed **Analyses** Result **Batch ID**

EPA METHOD 300.0: ANIONS Analyst: VP

12/22/2020 6:47:32 AM 57136 Chloride 1400 59 mg/Kg

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

Qualifiers:

Chloride

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

- Analyte detected in the associated Method Blank
- \mathbf{E} Value above quantitation range

mq/Kq

- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Page 1 of 9

Lab Order: 2012A09

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 12/24/2020

CLIENT: Souder, Miller & Associates Lab Order: 2012A09

Project: Gravel Grinder

Lab ID: 2012A09-006 Collection Date: 12/17/2020

Client Sample ID: BG2-8' Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed **Batch ID**

EPA METHOD 300.0: ANIONS Analyst: VP Chloride 380 61 mg/Kg 12/22/2020 6:59:56 AM 57136 20

Lab ID: 2012A09-007 **Collection Date:** 12/17/2020

Client Sample ID: BG2-10' Matrix: SOIL

RL Qual Units DF Date Analyzed **Analyses** Result **Batch ID**

EPA METHOD 300.0: ANIONS Analyst: VP Chloride 130 60 20 12/22/2020 1:29:42 PM 57158

2012A09-008 **Collection Date:** 12/17/2020 Lab ID:

Client Sample ID: SL1-8' Matrix: SOIL

Result RL Qual Units DF Date Analyzed **Analyses Batch ID**

EPA METHOD 300.0: ANIONS Analyst: VP Chloride 2200 60 12/22/2020 2:06:56 PM 57158 mq/Kq

Lab ID: **Collection Date:** 12/17/2020 2012A09-009

Client Sample ID: SL1-12' Matrix: SOIL

RL Qual Units DF Date Analyzed **Batch ID Analyses**

Result

EPA METHOD 300.0: ANIONS Analyst: VP Chloride 60 850 mg/Kg 12/22/2020 3:09:00 PM 57158

Lab ID: 2012A09-010 **Collection Date:** 12/17/2020

Client Sample ID: SL2-4' Matrix: SOIL

RL Qual Units DF Date Analyzed Analyses Result **Batch ID**

EPA METHOD 300.0: ANIONS Analyst: VP

Chloride 150 3600 mg/Kg 12/23/2020 11:45:48 AM 57158

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
- Not Detected at the Reporting Limit
- Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- \mathbf{E} Value above quantitation range

mg/Kg

- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Page 2 of 9

Lab Order: 2012A09

20

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 12/24/2020

CLIENT: Souder, Miller & Associates Lab Order: 2012A09

Project: Gravel Grinder

Lab ID: 2012A09-011 Collection Date: 12/17/2020

Client Sample ID: SL2-8' Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed **Batch ID**

EPA METHOD 300.0: ANIONS Analyst: VP Chloride 1800 60 mg/Kg 12/22/2020 3:33:48 PM 57158

Lab ID: 2012A09-012 **Collection Date:** 12/17/2020

Client Sample ID: SL2-10' Matrix: SOIL

RL Qual Units DF Date Analyzed **Analyses** Result **Batch ID**

EPA METHOD 300.0: ANIONS Analyst: VP Chloride 580 60 20 12/22/2020 3:46:13 PM 57158 mg/Kg

Collection Date: 12/17/2020 Lab ID: 2012A09-013

Client Sample ID: SL2-11.5' Matrix: SOIL

Result RL Qual Units DF Date Analyzed **Analyses Batch ID**

EPA METHOD 300.0: ANIONS Analyst: VP Chloride 400 60 12/22/2020 3:58:38 PM 57158 mq/Kq

Lab ID: 2012A09-014 **Collection Date:** 12/17/2020

Client Sample ID: SL3-4' Matrix: SOIL

Result **RL Qual Units DF** Date Analyzed **Batch ID Analyses**

EPA METHOD 300.0: ANIONS Analyst: VP Chloride 150 3200 mq/Kq 12/23/2020 11:58:12 AM 57158

Lab ID: 2012A09-015 **Collection Date:** 12/17/2020

Client Sample ID: SL3-6' Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed **Batch ID**

EPA METHOD 300.0: ANIONS Analyst: VP

12/22/2020 4:23:27 PM 57158 Chloride 1800 60 mg/Kg

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
- Not Detected at the Reporting Limit
- Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

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

Page 3 of 9

Lab Order: 2012A09

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 12/24/2020

CLIENT:	Souder, Miller & Associates	Lab Order:	2012A09
D	Constant Code dan		

Project: Gravel Grinder

Lab ID: 2012A09-016 **Collection Date:** 12/17/2020

Client Sample ID: SL3-8' Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS Analyst: VP

Chloride 3700 150 mg/Kg 50 12/23/2020 12:10:37 PM 57158

Lab ID: 2012A09-017 **Collection Date:** 12/17/2020

Client Sample ID: SL3-10' Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS

Chloride

Analyst: VP

Chloride

1100

60

mg/Kg

20

12/22/2020 5:13:04 PM

57158

Lab ID: 2012A09-018 **Collection Date:** 12/17/2020

Client Sample ID: SL4-2' Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

 EPA METHOD 300.0: ANIONS
 Analyst: VP

 Chloride
 11000
 600
 mg/Kg
 200
 12/23/2020
 12:23:02 PM 57158

Lab ID: 2012A09-019 **Collection Date:** 12/17/2020

Client Sample ID: SL4-4' Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

 EPA METHOD 300.0: ANIONS
 Analyst: VP

 Chloride
 7000
 300
 mg/Kg
 100 12/23/2020 12:35:27 PM 57158

Lab ID: 2012A09-020 Collection Date: 12/17/2020

Client Sample ID: SL4-6' Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS Analyst: VP

Chloride 6200 300 mg/Kg 100 12/23/2020 12:47:52 PM 57158

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 4 of 9

Lab Order: 2012A09

Date Reported: 12/24/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Lab Order: 2012A09 **Project:** Gravel Grinder Lab ID: 2012A09-021 Collection Date: 12/17/2020 Client Sample ID: SL4-8' Matrix: SOIL **Analyses** Result RL Qual Units DF Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: VP Chloride 3000 150 mg/Kg 12/23/2020 1:00:16 PM 57158 Lab ID: 2012A09-022 **Collection Date:** 12/17/2020 Client Sample ID: SL4-10' Matrix: SOIL RL Qual Units DF Date Analyzed **Analyses** Result **Batch ID EPA METHOD 300.0: ANIONS** Analyst: VP Chloride 880 60 20 12/22/2020 6:15:08 PM 57158 mg/Kg **Collection Date:** 12/17/2020 Lab ID: 2012A09-023 Client Sample ID: SL4-12' Matrix: SOIL Result RL Qual Units DF Date Analyzed **Analyses Batch ID EPA METHOD 300.0: ANIONS** Analyst: VP Chloride 450 60 12/22/2020 6:27:32 PM 57158 mq/Kq Lab ID: **Collection Date:** 12/17/2020 2012A09-024 Client Sample ID: SL5-2' Matrix: SOIL Result **RL Qual Units DF** Date Analyzed **Batch ID Analyses EPA METHOD 300.0: ANIONS** Analyst: VP Chloride 600 11000 mq/Kq 200 12/23/2020 1:12:41 PM 57158 Lab ID: 2012A09-025 **Collection Date:** 12/17/2020 Client Sample ID: SL5-4' Matrix: SOIL RL Qual Units DF Date Analyzed Analyses Result **Batch ID EPA METHOD 300.0: ANIONS** Analyst: VP Chloride 300 100 12/23/2020 1:25:05 PM 57163 6200 mg/Kg

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 9

Lab Order: 2012A09

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 12/24/2020

12/22/2020 7:54:25 PM 57163

CLIENT: Souder, Miller & Associates Lab Order: 2012A09

Project: Gravel Grinder

Chloride

Lab ID: 2012A09-026 **Collection Date:** 12/17/2020

Client Sample ID: SL5-6' Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

60

mg/Kg

20

EPA METHOD 300.0: ANIONS Analyst: VP

2400

Lab ID: 2012A09-027 **Collection Date:** 12/17/2020

Client Sample ID: SL5-8' Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS

Chloride

2200

150

mg/Kg

50

12/23/2020 2:02:19 PM

57163

Lab ID: 2012A09-028 **Collection Date:** 12/17/2020

Client Sample ID: SL5-10' Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS

Chloride

480

59

mg/Kg

20

12/22/2020 8:19:14 PM

57163

Lab ID: 2012A09-029 **Collection Date:** 12/17/2020

Client Sample ID: SL5-12' Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

 EPA METHOD 300.0: ANIONS
 Analyst: VP

 Chloride
 410
 60
 mg/Kg
 20
 12/22/2020 8:31:38 PM
 57163

Lab ID: 2012A09-030 **Collection Date:** 12/17/2020

Client Sample ID: SL6-2' Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS Analyst: VP

Chloride 9600 300 mg/Kg 100 12/23/2020 2:14:43 PM 57163

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 9

Lab Order: 2012A09

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 12/24/2020

CLIENT: Souder, Miller & Associates Lab Order: 2012A09

Project: Gravel Grinder

Lab ID: 2012A09-031 **Collection Date:** 12/17/2020

Client Sample ID: SL6-4' Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS Analyst: VP

Chloride 3300 300 mg/Kg 100 12/23/2020 2:27:08 PM 57163

Lab ID: 2012A09-032 **Collection Date:** 12/17/2020

Client Sample ID: SL6-6' Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS

Chloride 4900 150 mg/Kg 50 12/23/2020 2:39:32 PM 57163

Lab ID: 2012A09-033 **Collection Date:** 12/17/2020

Client Sample ID: SL6-8' Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS Analyst: VP

Chloride 740 60 mg/Kg 20 12/22/2020 9:21:17 PM 57163

Lab ID: 2012A09-034 Collection Date: 12/17/2020 Client Sample ID: SL6-10' Matrix: SOIL

t Sample 15. Sec-10

Analyses Result RL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS

Chloride 1800 59 mg/Kg 20 12/22/2020 9:33:41 PM 57163

Lab ID: 2012A09-035 **Collection Date:** 12/17/2020

Client Sample ID: SL6-12' Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS Analyst: VP

Chloride 680 60 mg/Kg 20 12/22/2020 10:10:54 PM 57163

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 9

CLIENT:

Analytical Report

Lab Order: 2012A09

Lab Order:

Hall Environmental Analysis Laboratory, Inc.

Souder, Miller & Associates

Date Reported: 12/24/2020

2012A09

Analyst: VP

Batch ID

12/22/2020 10:48:08 PM 57163

DF Date Analyzed

Project: Gravel Grinder Lab ID: 2012A09-036 Collection Date: 12/17/2020 Client Sample ID: SW1 0-4' Matrix: SOIL **Analyses** Result RL Qual Units DF Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: VP Chloride 1500 60 mg/Kg 12/22/2020 10:23:19 PM 57163 20 Lab ID: 2012A09-037 **Collection Date:** 12/17/2020 Client Sample ID: SW2 0-4' Matrix: SOIL RL Qual Units DF Date Analyzed **Analyses** Result **Batch ID EPA METHOD 300.0: ANIONS** Analyst: VP Chloride 3700 150 50 12/23/2020 2:51:57 PM 57163 mg/Kg **Collection Date:** 12/17/2020 Lab ID: 2012A09-038 Client Sample ID: SW3 0-4' Matrix: SOIL Result RL Qual Units DF Date Analyzed **Analyses Batch ID**

 Lab ID:
 2012A09-039
 Collection Date:
 12/17/2020

 Client Sample ID:
 SW4 0-4'
 Matrix:
 SOIL

1700

Result

60

mq/Kq

RL Qual Units

 EPA METHOD 300.0: ANIONS
 Analyst: VP

 Chloride
 3400
 150
 mg/Kg
 50
 12/23/2020 3:04:21 PM
 57163

Lab ID: 2012A09-040 **Collection Date:** 12/17/2020

Client Sample ID: SW5 0-4' Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS Analyst: VP

Chloride 2400 61 mg/Kg 20 12/22/2020 11:12:57 PM 57163

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 9

EPA METHOD 300.0: ANIONS

Chloride

Analyses

Hall Environmental Analysis Laboratory, Inc.

WO#: **2012A09 24-Dec-20**

Client: Souder, Miller & Associates

Project: Gravel Grinder

Sample ID: MB-57136 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 57136 RunNo: 74164

Prep Date: 12/21/2020 Analysis Date: 12/22/2020 SeqNo: 2617371 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-57136 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 57136 RunNo: 74164

Prep Date: 12/21/2020 Analysis Date: 12/22/2020 SeqNo: 2617372 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 96.4 90 110

Sample ID: LCS-57158 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 57158 RunNo: 74197

Prep Date: 12/22/2020 Analysis Date: 12/22/2020 SeqNo: 2618987 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 92.6 90 110

Sample ID: MB-57158 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **57158** RunNo: **74197**

Prep Date: 12/22/2020 Analysis Date: 12/22/2020 SeqNo: 2618988 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: MB-57163 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 57163 RunNo: 74197

Prep Date: 12/22/2020 Analysis Date: 12/22/2020 SeqNo: 2619021 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-57163 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 57163 RunNo: 74197

Prep Date: 12/22/2020 Analysis Date: 12/22/2020 SeqNo: 2619022 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 93.1 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

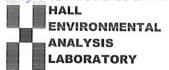
E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 9 of 9



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

Sample Log-In Check List

Client Name:	Souder, Mi Associates		vr & Work Order Num					RcptNo:	1
Received By:	Juan Roja	as	12/19/2	2020 9:50:0	0 AM		Huan Say		
Completed By:	Cheyenne			2020 10:14:					
0 (50)		119/20		.020 10.14.	J9 AIVI				
Chain of Cus	tod <u>v</u>								
1. Is Chain of Cu	istody comp	lete?			Yes	✓	No 🗌	Not Present	
2. How was the	sample deliv	rered?			Cou	rier			
<u>Log In</u>									
3. Was an attem	pt made to	cool the samp	les?		Yes	✓	No 🗌	NA 🗆	
4. Were all samp	les received	at a tempera	ture of >0° C	to 6.0°C	Yes	✓	No 🗌	NA 🗆	
5. Sample(s) in p	roper conta	iner(s)?			Yes	✓	No 🗌		
6. Sufficient samp	ple volume f	or indicated te	est(s)?		Yes	V	No 🗌		
7. Are samples (e	except VOA	and ONG) pro	perly preserve	ed?	Yes	✓	No 🗌		
8. Was preservat					Yes		No 🗸	NA 🗆	
9. Received at lea	ast 1 vial wit	h headspace	<1/4" for AQ \	/OA?	Yes	П	No 🗌	NA 🗹	
10. Were any sam					Yes		No 🗸		
00 00 00 00 00 00 00 00 00 00 00 00 00								# of preserved bottles checked	
11. Does paperwork (Note discrepa			·		Yes	V	No 🗆	for pH:	12 unless noted)
12. Are matrices co					Yes	✓	No 🗆	Adjusted?	12 dilless floted)
13. Is it clear what						V	No 🗆	/	
14. Were all holdin	1511		•		Yes	V	No 🗆	Checked by:	PA 12.19.
(If no, notify cu	(T)				103			7	(1
Special Handli	ng (if app	olicable)							
15. Was client not	ified of all di	screpancies v	vith this order?	>	Yes		No 🗌	NA 🗹	
Person N	Notified:	PRINCE OF A SECURIOR		Date		THE REST CASE OF THE PARTY.			
By Who	m:			Via:	☐ eM	ail 🗌	Phone Fax	☐ In Person	
Regardir	ng:					-			
Client In	structions:	Marine Control and				CONTRACT CONTRACT CONTRACT	- mic wifet by a constant box	A CONTRACTOR OF THE PROPERTY O	
16. Additional ren	narks:								
17. Cooler Inform	nation								
Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal D	ate	Signed By		
1	0.5	Good							
2	0.6	Good							
3	1.1	Good							
4	0.9	Good							

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HALL ENVIRONMENTAL ANALYSIS LABORATOR' www.hallenvironmental.com kins NE - Albuquerque, NM 87109 345-3975 Fax 505-345-4107 Analysis Request			3 - 1				Time: Relinquished by: Received by: Received by: Received by: Received
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	BTEX / MTBE / TMB's (8021)						
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HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request	(104.1 1310 or 82 1948 103, NC 19 100 101 100 101 101 101 101 101 101	OV) 0928	>>										Man 0:1	Malodie Scinyari 94	If necessary, samples submitted to Half Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.
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HALL ENVIRONMENTAL ANALYSIS LABORATOR www.hallenvironmental.com kins NE - Albuquerque, NM 87109 345-3975 Fax 505-345-4107 Analysis Request	⁵ OS ' ⁵ Od ' ² Ol	RCRA 8 Metals (2) F, Br, NO ₃ , N 8260 (VOA) 8270 (Semi-VOA) Total Coliform (Pre	*							Direct Bill: Maraman Oil	Time: Relinquished by: Received-by: Via: Date Time Macdu Super! April 1900 Character of this possibility. Any sub-contracted data will be clearly notated on the analytical report.
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Received by OCD: 6/14/2021 1	:59:59 PM	Page 104 of
HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request	EDB (Method 504.1) PAHs by 8310 or 8270SIMS RCRA 8 Metals 8260 (VOA) 8270 (Semi-VOA) Total Coliform (Present/Absent)	Onect Bill: Marathy Wolder Sonjori
4901 Tel. (TPH:8015D(GRO \ DRO \ MRO)	i i i i i i i i i i i i i i i i i i i
	BTEX / MTBE / TMB's (8021)	- Rem
Turn-Around Time: Standard Rush 3 day THT Project Name: Project Name: Project #:	Project Manager: KM Mixeuril Sampler:	Via: Date Via: Date Via: Date Via: Date
Client: SIMA- Carkbard Mailing Address:	email or Fax#: QA/QC Package: Standard	Time: Relinquishe



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

December 31, 2020

Ashley Maxwell Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: FAX:

RE: Gravel Grinder OrderNo.: 2012C30

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 8 sample(s) on 12/29/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 12/31/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SL1-13'

Project: Gravel Grinder Collection Date: 12/28/2020

Lab ID: 2012C30-001 **Matrix:** SOIL **Received Date:** 12/29/2020 7:35:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: VP
Chloride	490	60	mg/Kg	20	12/30/2020 2:36:52 P	M 57280

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 9

Date Reported: 12/31/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SL3-12'

Project: Gravel Grinder Collection Date: 12/28/2020

Lab ID: 2012C30-002 **Matrix:** SOIL **Received Date:** 12/29/2020 7:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: VP
Chloride	480	60	mg/Kg	20	12/30/2020 3:14:06 P	M 57280

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 9

Date Reported: 12/31/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SL6-13'

Project: Gravel Grinder Collection Date: 12/28/2020

Lab ID: 2012C30-003 **Matrix:** SOIL **Received Date:** 12/29/2020 7:35:00 AM

Analyses	Result	RL Qu	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: VP
Chloride	380	60	mg/Kg	20	12/30/2020 4:16:09 P	M 57280

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 9

Gravel Grinder

Project:

Analytical Report Lab Order 2012C30

Collection Date: 12/28/2020

Date Reported: 12/31/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW1-0-4'

Lab ID: 2012C30-004 **Matrix:** SOIL **Received Date:** 12/29/2020 7:35:00 AM

Analyses	Result	RL Qu	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: VP
Chloride	460	59	mg/Kg	20	12/30/2020 4:28:34 F	PM 57280

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

Qualifiers:

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

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

Page 4 of 9

Gravel Grinder

Project:

Analytical Report
Lab Order 2012C30

Collection Date: 12/28/2020

Date Reported: 12/31/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW2 0-4'

Lab ID: 2012C30-005 **Matrix:** SOIL **Received Date:** 12/29/2020 7:35:00 AM

Analyses	Result	RL Qu	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: VP
Chloride	560	60	mg/Kg	20	12/30/2020 4:40:59 F	PM 57280

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 9

Date Reported: 12/31/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SW3 0-4'

Project: Gravel Grinder

Collection Date: 12/28/2020

Lab ID: 2012C30-006 **Matrix:** SOIL **Received Date:** 12/29/2020 7:35:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: VP
Chloride	460	60	mg/Kg	20	12/30/2020 4:53:23 F	PM 57280

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 9

Date Reported: 12/31/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW4 0-4'

Project: Gravel Grinder **Collection Date: 12/28/2020**

Lab ID: 2012C30-007 Matrix: SOIL Received Date: 12/29/2020 7:35:00 AM

Analyses	Result	RL Qu	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: VP
Chloride	440	60	mg/Kg	20	12/30/2020 5:05:47 P	M 57280

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

- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Page 7 of 9 Reporting Limit

Date Reported: 12/31/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SW5 0-4'

Project: Gravel Grinder

Collection Date: 12/28/2020

Lab ID: 2012C30-008 **Matrix:** SOIL **Received Date:** 12/29/2020 7:35:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: VP
Chloride	290	60	mg/Kg	20	12/30/2020 5:18:11 F	PM 57280

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

Qualifiers:

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

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

Page 8 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#: **2012C30** *31-Dec-20*

Client: Souder, Miller & Associates

Project: Gravel Grinder

Sample ID: MB-57280 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 57280 RunNo: 74331

Prep Date: 12/30/2020 Analysis Date: 12/30/2020 SeqNo: 2624089 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-57280 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 57280 RunNo: 74331

Prep Date: 12/30/2020 Analysis Date: 12/30/2020 SeqNo: 2624090 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 93.7 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 9 of 9



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

Sample Log-In Check List

CI	ient Name:	nme: Souder, Miller & Associat Work Order Nu			Order Numb	er: 2012C30		RcptNo: 1	
Re	ceived By:	Isaiah Or	tiz	12/29/20	20 7:35:00	AM	Inc	4	
Со	mpleted By:	Isaiah Or	tiz	12/29/20	20 7:44:16	AM	Inc	24	
Re	viewed By:	EM	12/29/	20					
<u>Ch</u>	ain of Cus	tody							
1.	Is Chain of Co	ustody comp	olete?			Yes 🗸	No 🗌	Not Present	
2.	How was the	sample deliv	vered?			Courier			
Lo	og In								
3.	Was an attem	npt made to	cool the samples?	•		Yes 🗸	No 🗌	NA \square	
4. \	Were all samp	oles received	d at a temperature	of >0° C to	6.0°C	Yes 🗸	No 🗌	NA 🗆	
5.	Sample(s) in լ	proper conta	iner(s)?			Yes 🗸	No 🗌		
6. 5	Sufficient sam	ple volume f	for indicated test(s	s)?		Yes 🗸	No 🗌		
7. 4	Are samples (except VOA	and ONG) proper	ly preserved	d?	Yes 🗸	No 🗌		
8. V	Nas preserva	tive added to	bottles?			Yes 🗌	No 🗸	NA \square	
9. F	Received at le	ast 1 vial wit	th headspace <1/4	4" for AQ V0	DA?	Yes	No 🗌	NA 🗸	
10.	Were any san	nple containe	ers received broke	en?		Yes	No 🗸		
								# of preserved bottles checked	
	Does paperwo Note discrepa		ttle labels? ain of custody)			Yes 🗸	No 🗌	for pH: (<2 or >12 unless noted)	
12. <i>F</i>	Are matrices o	correctly iden	ntified on Chain of	Custody?		Yes 🗸	No 🗌	Adjusted?	
13.1	s it clear what	t analyses w	ere requested?			Yes 🗸	No 🗌		
	Nere all holdir If no, notify cu					Yes 🗸	No 🗌	Checked by: JR 12/29/20	0
Spe	cial Handl	ing (if app	olicable)				, i		
			iscrepancies with	this order?		Yes	No 🗌	NA 🗹	
	Person	Notified:	Annual representation of the contract and the contract of the		Date:		WARRING TO STREET		
	By Who	m:		AND AND PARTY OF THE PARTY OF T	Via:	eMail	Phone Fax	In Person	
	Regardi	ing:						TOTAL TICLE AND A TOTAL STATE OF THE STATE O	
	Client Ir	nstructions:				TOTAL SERVICE STATE OF THE SERVICE STATE VISION		CONTRACTOR	
16.	Additional rer	marks:							
17.	Cooler Infor	mation							
	Cooler No	Temp °C	Condition S	eal Intact	Seal No	Seal Date	Signed By		
	1	0.8		t Present					
	2	1.1	Good No	t Present					

Received by OCD: 6/14/2021-1				F								- 1 434	e <u>416 of</u>)	
HALL ENVIRONMENTAL ANALYSIS LABORATOR www.hallenvironmental.com kins NE - Albuquerque, NM 87109 345-3975 Fax 505-345-4107 Analysis Request	PAHs by 8310 or 8270SIMS RCRA 8 Metals S260 (VOA) S270 (Semi-VOA) Total Coliform (Present/Absent)	×										Bill: Marachan Oil	TA, 20.02416.002	If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.
HALL ANAL www.ha 4901 Hawkins NE Tel. 505-345-3975	STEX / MTBE / TMB's (8021) 5081 Pesticides/8082 PCB's 5081 Pesticides/8082 PCB's											Remarks: Direct Bill:	Melodic Sanjar	possibility. Any sub-contra
3 day THT 682	U D No (°C) (°C) (°C) TO (°C)	100	200	003	700	000	900	100	800		Angeles and the second	Date Time		This serves as notice of this
nd Time: 3 rd Rush & d me: Cyrindlar	Maxima HA Ses 2.5 2.5 2.5 2.5 True		-						_	6 £		Via:	Via:	r accredited laboratories.
Turn-Around T Standard Project Name: Chrave Project #: N R.M. 2.08	Project Manager: Ashley Sampler:	402	-									Received by	Received (by:	ocontracted to other
Chain-of-Custody Record E. SMA- Carlsbad g Address:	☐ Level 4 (Full Validation) ☐ Az Compliance ☐ Other ☐ Matrix Sample Name	SLI -13'	513-12'	566-131	Swi-0-41	SW2 6-4'	SW3 0-41	1h-0 hms	1,h-0 SMS			ied by:	led by:	bmitted to Hall Environmental may be sul
Chain-of-Cuent: SMA- Client: SMA- Chailing Address:	;; ;; ;; ;; ;; ;; ;; ;; ;; ;; ;; ;; ;;		_									Time: Relinquished by:	Time: Relinquished by:	If necessary, samples sul
Client: # Phone #: # P	Email or Fax OA/QC Packs OA/QC Packs □ Standard □ NELAC □ EDD (Typ Date Time	12/28/20	.—									Date:	Date: Upgliz	

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

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III
1000 Rio Brazos Rd., Aztec, NM 87410

Phone:(505) 334-6178 Fax:(505) 334-6170 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

CONDITIONS

Action 14926

CONDITIONS OF APPROVAL

Operator:	OGRID:	Action Number:	Action Type:
MARATHON OIL PERMIAN LLC 5555 San Felipe St.	372098	14926	C-141
Permian Regulatory Team Houston, TX77056			

OCD Reviewer	Condition
ceads	None

Page 118 of 119

Incident ID	NRM2032954682
District RP	
Facility ID	
Application ID	

Closure

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

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.				
□ A scaled site and sampling diagram as described in 19.15.29.11 NMAC				
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)				
□ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)				
Description of remediation activities				
I hereby certify that the information given above is true and complete to and regulations all operators are required to report and/or file certain rel may endanger public health or the environment. The acceptance of a Coshould their operations have failed to adequately investigate and remediate human health or the environment. In addition, OCD acceptance of a Cocompliance with any other federal, state, or local laws and/or regulation restore, reclaim, and re-vegetate the impacted surface area to the conditionaccordance with 19.15.29.13 NMAC including notification to the OCD Printed Name: Melodie Sanjari Melodie Sanjari Melodie Sanjari	ease notifications and perform corrective actions for releases which -141 report by the OCD does not relieve the operator of liability ate contamination that pose a threat to groundwater, surface water, 141 report does not relieve the operator of responsibility for s. The responsible party acknowledges they must substantially tons that existed prior to the release or their final land use in			
email: <u>msanjari@marathonoil.com</u>	Telephone: 575-988-8753			
OCD Only	0/1/6/0001			
Received by: Robert Hamlet	Date: 9/16/2021			
Closure approval by the OCD does not relieve the responsible party of li remediate contamination that poses a threat to groundwater, surface water party of compliance with any other federal, state, or local laws and/or responsible.	r, human health, or the environment nor does not relieve the responsible			
Closure Approved by: Robert Hamlet	Date: 9/16/2021			
Printed Name: Robert Hamlet	Title: Environmental Specialist - Advanced			

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

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

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

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

CONDITIONS

Action 31883

CONDITIONS

Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
5555 San Felipe St.	Action Number:
Houston, TX 77056	31883
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NRM2032954682 GRAVEL GRINDER FEE 23 28 18 WXY #010H, thank you. This closure is approved.	9/16/2021