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	NAPP2035543036
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 32.2989697 Longitude -104.13114049
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: GRAVEL GRINDER FEE 23 28 18 WXY #003H	Site Type: Oil & Gas Facility
Date Release Discovered: 12/20/2020	API# *(if applicable)* 30-015-44627

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

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (*Name:* _____)

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	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) Oil, Sand & Produced Water Mixture from Wellhead (emulsion) 250 bbl.	Volume/Weight Recovered (provide units) 250 bbl.

Cause of Release

Upon arrival at the Gravel Grinder location, it was discovered that an extra heavy 90 on the casing failed as a result of sand erosion which led to the release of approx. 250 bbl. of emulsion (water, oil & sand -appears to be mostly water) on the engineered pad. Recovery efforts began immediately as there were already two trucks in the vicinity – an emergency on call was placed and a surface scrape was conducted after standing fluids were removed to ensure the release did not migrate laterally into the pasture.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2035543036
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? Volume
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? By Melodie Sanjari via a C141a on 12/20	

Initial Response

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

☒ The source of the release has been stopped.

☒ The impacted area has been secured to protect human health and the environment.

☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

☒ All free liquids and recoverable materials have been removed and managed appropriately.

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

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

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

Printed Name: Melodie Sanjari Title: Environmental Professional

Signature: Melodie Sanjari Date: 12/22/2020

email: msanjari@marathonoil.com Telephone: 575-988-8753

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2035543036
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?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ No

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

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

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

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2035543036
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

Signature: Melodie Sanjari Date: 4/11/2022

email: msanjari@marathonoil.com Telephone: 575-988-8753

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2035543036
District RP	
Facility ID	
Application ID	

Closure

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

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

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

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

Printed Name: Melodie Sanjari Title: Environmental Professional

Signature: Melodie Sanjari Date: 4/11/2022

email: msanjari@marathonoil.com Telephone: 575-988-8753

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: Jennifer Nobui Date: 05/17/2022

Printed Name: Jennifer Nobui Title: Environmental Specialist A

Souder, Miller & Associates♦201 S. Halagueno St.♦Carlsbad, NM 88220

April 11, 2022

#5E31004-BG1

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

SUBJECT: Closure Request Report for the Gravel Grinder Fee 23 28 18 WXY #003H Release (NAPP2035543036), Eddy County, New Mexico

To Whom it May Concern:

On behalf of Marathon Oil Permian LLC (Marathon, Souder, Miller & Associates (SMA) has prepared this Closure Request Report that describes the release of liquids related to oil and gas production activities at the Gravel Grinder Fee 23 28 18 WXY #003H site. The site is in Unit M, Section 18, Township 23S, Range 28E, Eddy County, New Mexico, on Federal 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 #003H	Company	Marathon oil Permian LLC
API Number	30-015-44627	Location	32.2989697 -104.13114049
Tracking Number	NAPP2035543036		
Estimated Date of Release	12/20/2020	Date Reported to NMOCD	12/20/2020
Land Owner	Federal	Reported To	NMOCD District 2
Source of Release	Casing failure		
Released Volume	250 bbls	Released Material	Oil, Sand, and Produced Water
Recovered Volume	250 bbls	Net Release	0 bbls
NMOCD Closure Criteria	<50 feet		
SMA Response Dates	December 30, 2020, January 21, 2021, March 14-18, 2022		

1.0 Background

On December 20, 2020, a release was discovered at the Gravel Grinder Fee 23 28 18 WXY #003H site due to corrosion of the casing. Initial response activities were conducted by Marathon, and included source elimination and containment activities, which recovered approximately 250 barrels of fluid, which were hauled to and disposed of at an NMOCD approved facility. Figure 1 illustrates the vicinity and site location; Figure 2 illustrates 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 #003H is an active production facility located approximately 2.1 miles northwest of Loving, New Mexico on Federal (BLM) land at an elevation of approximately 3,079 feet above mean sea level (amsl).

Depth to Groundwater
Based upon New Mexico Office of State Engineer (NMOSE) well record data (Appendix B), depth to groundwater in the area is estimated to be 70 feet below grade surface (bgs).

Wellhead Protection Area
There are seven (7) known water sources within ½-mile of the location, according to the New Mexico Office of the State Engineer (NMOSE) online water well database.

Distance to Nearest Significant Watercourse
The nearest significant watercourse is an unnamed canal, located approximately 633 feet to the south.

Table 2 demonstrates the Closure Criteria applicable to this location. Figure 2 illustrates the site with 200 and 300-foot radii to indicate that it does lie within a sensitive area as described in 19.15.29.12.C(4) NMAC.

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, as the canal is less than 300 feet away from the edge of the excavation.

3.0 Release Characterization and Remediation Activities

On December 30, 2020 and January 21, 2021, SMA personnel performed site delineation activities at the Gravel Grinder Fee 23 28 18 WXY #003H site. SMA collected soil samples around the release site and throughout the visibly stained area. The area of visual impact was located entirely within the boundary of the developed production facility.

Soil samples were field screened for chloride using an electrical conductivity (EC) meter and for hydrocarbon impacts using a calibrated MiniRAE 2000 photoionization detector (PID) equipped with a 10.6 eV lamp.

A total of thirteen (13) sample locations were investigated using a hand-auger, to depths up to four (4) feet bgs. A total of 47 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.

Figure 3 shows the extent of the release area and sample locations. Laboratory results are summarized in Table 3. Laboratory reports are included in Appendix D.

4.0 Remediation

As the initial deferral request was denied, an alternative remediation plan was requested. In accordance with the NMOCD approved work plan dated February 16, 2022, SMA returned to site to conduct oversite activities on excavation activities that occurred March 14-18, 2022.

During excavation activities, SMA collected confirmation samples per the approved sampling variance, every 500 square feet, from the base and sidewalls of the excavation. The base of the excavation measured approximately 1,270 square feet with a depth varying from 2-3 feet bgs.

A total of sixty-seven (67) 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. Laboratory samples were collected in accordance with the sampling protocol included in Appendix C. Samples were placed into laboratory supplied glassware, labeled, and maintained on ice until delivery to Envirotech Analytical Laboratory in Farmington, New Mexico.

Figure 3 shows the extent of the final excavation and closure sample locations. Laboratory results are summarized in Table 3. Laboratory reports are included in Appendix D.

Documentation of NMOCD correspondence with approved work plan details and variance requests are included in Appendix E.

5.0 Site Recommendations (Remediation)

As demonstrated in Table 3, all closure samples meet the approved upon Closure Criteria. The site has been remediated to meet the standards of Table I of 19.15.29.12 NMAC.

Local soils are known to exhibit elevated concentrations of chlorides as indicated in the two (2) collected background samples that were requested as conditions of the variance request and were submitted for laboratory analysis for chlorides using USEPA Method 300.0. Background samples were collected at surface, one-, two-, and three-foot intervals. Lab analysis indicated sample BG had a chloride concentration range of 425 to 2,350 milligrams per kilogram. Sample BG2 had a chloride concentration range of 1,750 to 3,310 milligrams per kilogram.

SMA recommends no further action and requests closure of Incident Number NAPP2035543036.

6.0 Scope and Limitations

The scope of our services included: assessment sampling; verifying release stabilization; regulatory liaison; remediation; and preparing this 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.

If there are any questions regarding this report, please contact Ashley Maxwell at 505-320-8975.

Submitted by:
SOUDER, MILLER & ASSOCIATES

Reviewed by:

Ashley Maxwell
Project Scientist

Heather M, Woods, P.G.
Project Geoscientist

REFERENCES:

New Mexico Office of the State Engineer (NMOSE) online water well database
https://gis.ose.state.nm.us/gisapps/ose_pod_locations/; accessed 12/29/2020

ATTACHMENTS:

Figures:

Figure 1: Vicinity and Well Head Protection Map
Figure 2: Surface Water Radius Map
Figure 3: Site and Sample Location Map
Figure 4: Deferral Map

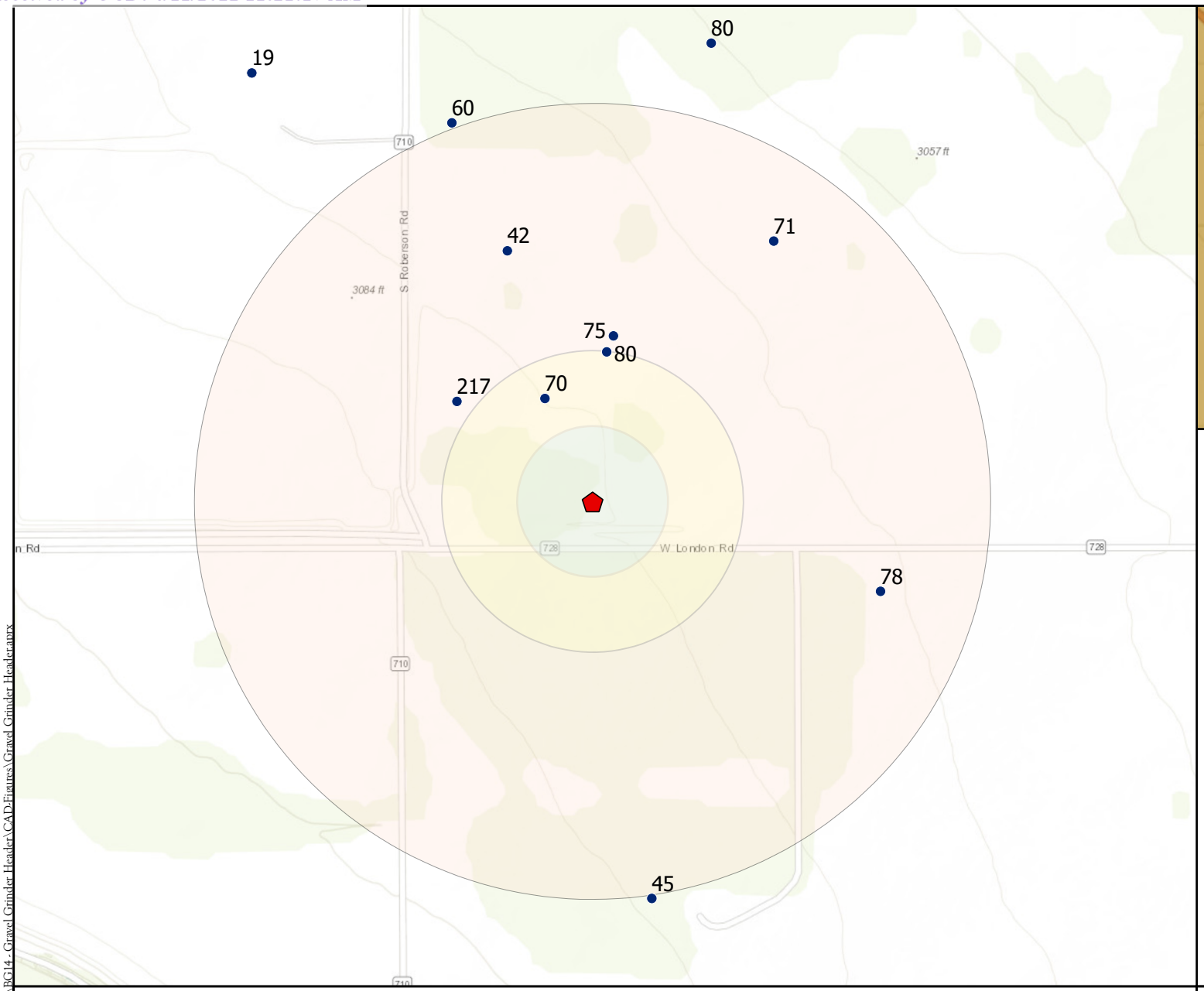
Tables:

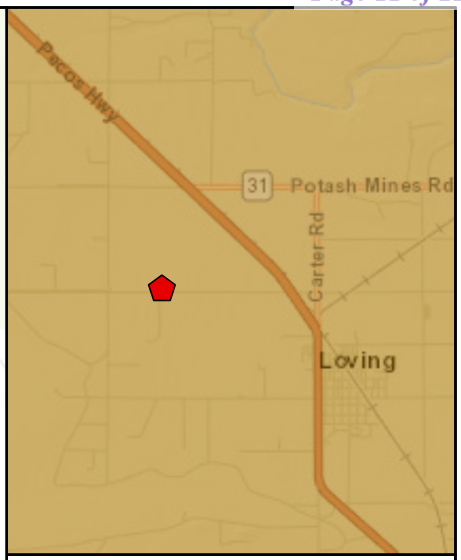
Table 2: NMOCD Closure Criteria Justification
Table 3: Summary of Sample Results

Appendices:

Appendix A: Form C141
Appendix B: NMOSE Wells Report
Appendix C: Field Notes & Photo Log
Appendix D: Laboratory Analytical Reports
Appendix E: OCD Correspondence

FIGURES





Legend

- OSE Depth to GW
- USGS GW Well
- Point of Release

Karst Potential

- Critical
- High
- Medium
- Low

N

0 320 640 1,280 1,920

Feet

Site Map

Gravel Grinder Fee 23 28 18 WXY #3H - Marathon Oil,
UL: N S: 18 T:23S R: 28E Eddy County, New Mexico

Figure 1

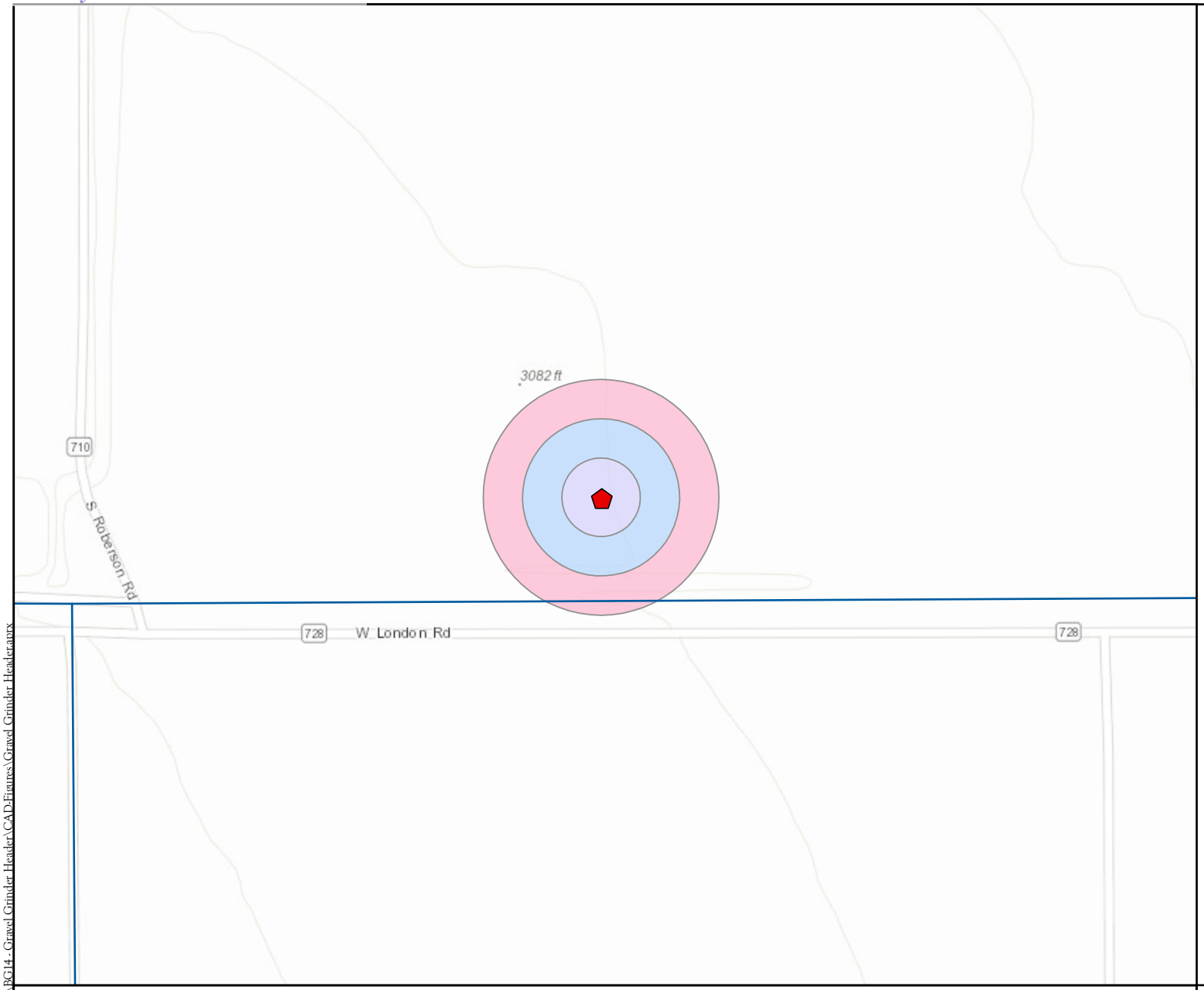
P:\5-Marathon MSA 2020 (5F28980)\BG14 - Gravel Grinder Header\CAD Figures\Gravel Grinder Header.mxd
Date Saved: 1/8/2021

Revisions

By: _____ Date: _____ Descr: _____
By: _____ Date: _____ Descr: _____

Drawn P.R. Smith
Date 1/13/2021
Checked
Approved

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



Buffer Distance
- 300 Feet
- 200 Feet
- 100 Feet
- Springs & Seeps
- Streams & Canals
- Rivers
- NM Wetlands
- Lakes & Playas
- FEMA Flood Zones 2011
- Point of Release

N

0 125 250 500 750

Feet

Surface Water Protection Map
Gravel Grinder Fee 23 28 18 WXY #3H - Marathon Oil
UL: N S: 18 T: 23S R: 28E, Eddy County, New Mexico

Figure 2

P:\5-Marathon MSA 2020 (5F28980)\BG14 - Gravel Grinder Header\CAD Figures\Gravel Grinder Header.mxd
Date Saved: 1/8/2021

Revisions
By: Date: Descr:
By: Date: Descr:

Drawn P.R. Smith
Date 1/13/2021
Checked
Approved

SMA

201 South Halaguena Street
Carlsbad, New Mexico 88221
(575) 689-7040
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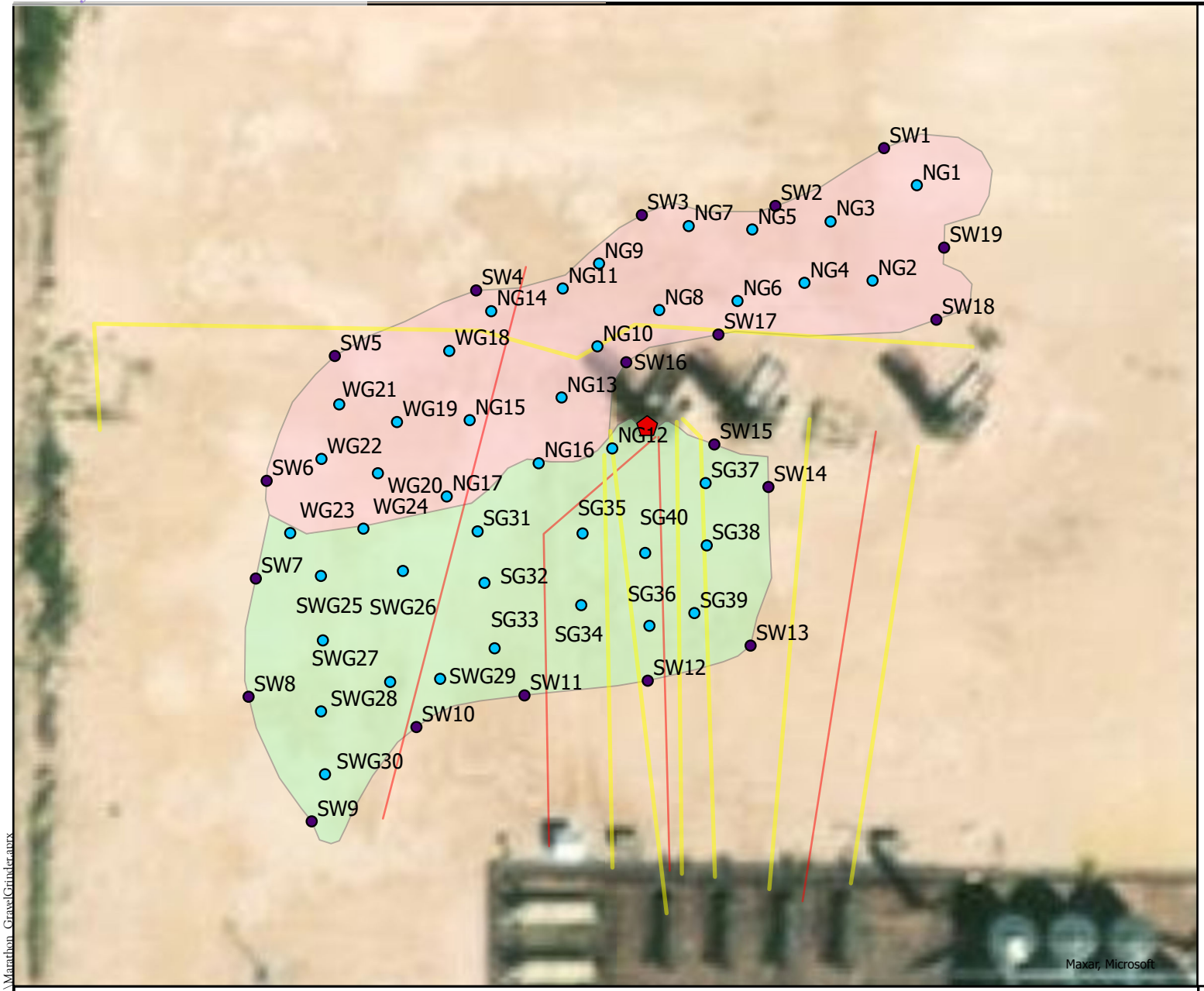


Legend

- Point of Release
- Composite Samples
- Side Wall Samples

Proposed Excavation

- 2ft Excavation
- 3ft Excavation

Line Features

- Electrical
- Pipeline

N

0 20 40 80

Feet

Scale: 1:647

Site and Sample Location Map
Gravel Grinder 23 28 18 #003H - Marathon Oil
UL: A S: 26 T: 24S R: 34E Lea County, New Mexico

Figure 3

Revisions
By: _____ Date: _____ Descr: _____
By: _____ Date: _____ Descr: _____

Drawn Sarahmay Schlea
Date 4/7/2022
Checked
Approved

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

C:\Users\ss\Desktop\GIS\Marathon\Marathon_GravelGrinder.aprx
Date Saved: 4/4/2022

TABLES

Table 2:
NMOCD Closure Criteria

Marathon Oil, Permian LLC
Gravel Grinder 23 28 18 WXY #003H

Site Information (19.15.29.11.A(2, 3, and 4) NMAC)		Source/Notes
Depth to Groundwater (feet bgs)	70	New Mexico Office of the State Engineer
Hortizontal Distance From All Water Sources Within 1/2 Mile (ft)	715	New Mexico Office of the State Engineer
Hortizontal Distance to Nearest Significant Watercourse (ft)	<300	Un-named Canal/Unites 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	**TPH**	**GRO + DRO**	**BTEX**	**Benzene**
< 50' BGS	**X**	**600**	**100**		**50**	**10**
51' to 100'		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?	Yes	600	100		50	10
<200' from lakebed, sinkhole or playa lake?	No					
Water Well or Water Source						
<500 feet from spring or a private, domestic fresh water well used by less than 5 households for domestic or stock watering purposes?	No					
<1000' from fresh water well or spring?	No					
Human and Other Areas						
<300' from an occupied permanent residence, school, hospital, 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					
within a 100-year floodplain?	No					

Table 3:
Sample Results

Sample ID	Sample Date	Depth of Sample (feet bgs)	Action Taken	Method 8021B		Method 8015D				Method 300.0
				BTEX	Benzene	GRO	DRO	MRO	Total TPH	Cl-
				mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
NMOCD Reclamation Requirement				50	10	-		--	100	3,310
NG1	3/14/2022	2	In-Situ	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**814**
NG2	3/14/2022	2	In-Situ	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**700**
NG3	3/14/2022	2	In-Situ	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**1,190**
NG4	3/14/2022	2	In-Situ	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**1,760**
NG5	3/14/2022	2	Excavated	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**2,670**
	3/18/2022	2.5	In-Situ	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**1,610**
NG6	3/14/2022	2	Excavated	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**2,870**
	3/18/2022	2.5	In-Situ	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**1,480**
NG7	3/14/2022	2	Excavated	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**3,270**
	3/18/2022	2.5	In-Situ	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**924**
NG8	3/14/2022	2	Excavated	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**2,430**
	3/18/2022	2.5	In-Situ	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**969**
NG9	3/14/2022	2	Excavated	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**2,630**
	3/18/2022	2.5	In-Situ	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**956**
NG10	3/14/2022	2	Excavated	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**2,860**
	3/18/2022	2.5	In-Situ	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**642**
NG11	3/14/2022	2	Excavated	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**3,190**
	3/18/2022	2.5	In-Situ	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**1,950**
NG12	3/14/2022	2	Excavated	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**2,790**
	3/18/2022	2.5	In-Situ	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**1,840**
NG13	3/14/2022	2	In-Situ	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**1,540**
NG14	3/14/2022	2	In-Situ	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**1,500**
NG15	3/14/2022	2	In-Situ	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**1,660**
NG16	3/14/2022	2	In-Situ	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**2,650**
	3/18/2022	2.5	In-Situ	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**989**
NG17	3/14/2022	2	In-Situ	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**2,040**
WG18	3/15/2022	2	In-Situ	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**3,180**
	3/18/2022	2.5	In-Situ	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**1,590**
WG19	3/15/2022	2	In-Situ	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**1,490**
WG20	3/15/2022	2	In-Situ	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**1,420**
WG21	3/15/2022	2	In-Situ	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**1,520**
WG22	3/15/2022	2	In-Situ	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**1,790**
WG23	3/15/2022	2	In-Situ	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**1,630**
WG24	3/15/2022	2	In-Situ	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**2,010**
SWG 25	3/15/2022	3	In-Situ	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**848**
SWG 26	3/15/2022	3	In-Situ	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**886**
SWG 27	3/15/2022	3	In-Situ	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**1,290**
SWG 28	3/15/2022	3	In-Situ	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**1,000**
SWG 29	3/15/2022	3	In-Situ	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**747**
SWG 30	3/15/2022	3	In-Situ	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**830**
SG 31	3/15/2022	3	In-Situ	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**1,540**
SG 32	3/15/2022	3	In-Situ	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**1,070**
SG 33	3/15/2022	3	In-Situ	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**994**
SG 34	3/15/2022	3	In-Situ	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**1,970**
SG 35	3/15/2022	3	In-Situ	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**2,250**
SG 36	3/15/2022	3	In-Situ	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**957**

Table 3:
Sample Results

Sample ID	Sample Date	Depth of Sample (feet bgs)	Action Taken	Method 8021B		Method 8015D				Method 300.0
				BTEX	Benzene	GRO	DRO	MRO	Total TPH	Cl-
				mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
NMOCD Reclamation Requirement				50	10	-		--	100	**3,310**
SG 37	3/15/2022	3	In-Situ	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**1,440**
SG 38	3/16/2022	3	In-Situ	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**1,000**
SG 39	3/16/2022	3	In-Situ	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**1,160**
SG 40	3/16/2022	2	In-Situ	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**830**
SW 1	3/16/2022	2	In-Situ	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**1,930**
SW 2	3/16/2022	2	In-Situ	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**1,690**
SW 3	3/16/2022	2	In-Situ	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**2,510**
	3/18/2022	2	In-Situ	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**1,400**
SW 4	3/16/2022	2	In-Situ	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**2,610**
	3/18/2022	2	In-Situ	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**1,480**
SW 5	3/16/2022	2	In-Situ	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**1,920**
SW 6	3/16/2022	2	In-Situ	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**1,850**
SW 7	3/16/2022	2	In-Situ	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**1,640**
SW 8	3/16/2022	2	In-Situ	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**1,560**
SW 9	3/16/2022	2	In-Situ	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**1,660**
SW 10	3/16/2022	2	In-Situ	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**1,600**
SW 11	3/16/2022	2	In-Situ	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**1,470**
SW 12	3/16/2022	2	In-Situ	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**1,450**
SW 13	3/16/2022	2	In-Situ	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**1,570**
SW 14	3/16/2022	2	In-Situ	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**1,350**
SW 15	3/16/2022	2	In-Situ	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**1,960**
SW 16	3/16/2022	2	In-Situ	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**1,800**
SW 17	3/16/2022	2	In-Situ	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**1,620**
SW 18	3/16/2022	2	In-Situ	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**1,530**
SW 19	3/16/2022	2	In-Situ	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**1,190**
BG - 0'	3/16/2022	surface		--	--	--	--	--	--	**425**
BG - 1'	3/16/2022	1		--	--	--	--	--	--	**1,210**
BG - 2'	3/16/2022	2		--	--	--	--	--	--	**2,350**
BG - 3'	3/16/2022	3		--	--	--	--	--	--	**2,270**
BG2 - 0'	3/18/2022	surface		--	--	--	--	--	--	**1,750**
BG2 - 1'	3/18/2022	1		--	--	--	--	--	--	**3,310**
BG2 - 2'	3/18/2022	2		--	--	--	--	--	--	**1,900**
BG2 - 3'	3/18/2022	3		--	--	--	--	--	--	**2,480**

"--" = Not Analyzed

BG: Background sample

"*" Variance request

APPENDIX A
FORM 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

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	NAPP2035543036
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 32.2989697 Longitude -104.13114049
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: GRAVEL GRINDER FEE 23 28 18 WXY #003H	Site Type: Oil & Gas Facility
Date Release Discovered: 12/20/2020	API# *(if applicable)* 30-015-44627

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

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (*Name:* _____)

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	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) Oil, Sand & Produced Water Mixture from Wellhead (emulsion) 250 bbl.	Volume/Weight Recovered (provide units) 250 bbl.

Cause of Release

Upon arrival at the Gravel Grinder location, it was discovered that an extra heavy 90 on the casing failed as a result of sand erosion which led to the release of approx. 250 bbl. of emulsion (water, oil & sand -appears to be mostly water) on the engineered pad. Recovery efforts began immediately as there were already two trucks in the vicinity – an emergency on call was placed and a surface scrape was conducted after standing fluids were removed to ensure the release did not migrate laterally into the pasture.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2035543036
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? Volume
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? By Melodie Sanjari via a C141a on 12/20	

Initial Response

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

☒ The source of the release has been stopped.
☒ The impacted area has been secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been removed and managed appropriately.

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

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

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

Printed Name: Melodie Sanjari Title: Environmental Professional

Signature: Melodie Sanjari Date: 12/22/2020

email: msanjari@marathonoil.com Telephone: 575-988-8753

OCD Only

Received by: Date:

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 Code	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 03779 POD1		C	ED	2	3	3	18	23S	28E	581707	3574103	218	110	70	40
C 02180		C	ED			3	18	23S	28E	581831	3574198*	292	140	80	60
C 03922 POD1		C	ED	3	2	3	18	23S	28E	581844	3574230	326	138	75	63
C 03082		C	ED	1	3	3	18	23S	28E	581529	3574096*	332	220	217	3
C 04400 POD1		C	ED	3	1	3	18	23S	28E	581496	3574309	506	200	120	80
C 02697		C	ED		1	3	18	23S	28E	581629	3574401*	524	220	42	178
C 04289 POD1		C	ED	1	1	2	19	23S	28E	582387	3573717	614	91	78	13
C 04225 POD1		C	ED	2	2	3	18	23S	28E	582167	3574424	633	120	71	49
C 03753 POD1		C	ED	3	3	1	18	23S	28E	581515	3574658	805	210	60	150

Average Depth to Water: **90 feet**

Minimum Depth: **42 feet**

Maximum Depth: **217 feet**

Record Count: 9

UTMNAD83 Radius Search (in meters):

Easting (X): 581802.41 **Northing (Y):** 3573906.48 **Radius:** 806

***UTM location was derived from PLSS - see Help**

12/29/20 9:25 AM

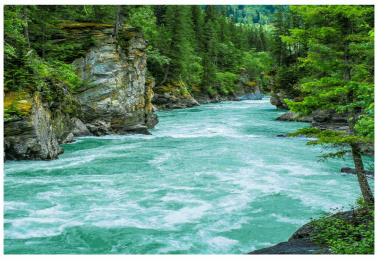
WATER COLUMN/ AVERAGE DEPTH TO WATER

APPENDIX C
FIELD NOTES
&
PHOTO LOG

APPENDIX D
LABORATORY ANALYTICAL REPORTS

Report to:

Lynn Acosta



5796 U.S. Hwy 64
Farmington, NM 87401

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

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Souder Miller Associates - Carlsbad

Project Name:	Gravel Grinder
Work Order:	E203091
Job Number:	19026-0001
Received:	3/15/2022

Revision: 4

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/15/22

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.
Envirotech Inc, holds the NM SDWA certification for data reported. (Lab #NM00979)

Date Reported: 3/15/22

Lynn Acosta
201 S Halagueno St.
Carlsbad, NM 88220

Project Name: Gravel Grinder
Workorder: E203091
Date Received: 3/15/2022 8:25:00AM

Lynn Acosta,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/15/2022 8:25:00AM, under the Project Name: Gravel Grinder.

The analytical test results summarized in this report with the Project Name: Gravel Grinder apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Alexa Michaels
Sample Custody Officer
Office: 505-632-1881
labadmin@envirotech-inc.com

Field Offices:

Southern New Mexico Area
Lynn Jarboe
Technical Representative/Client Services
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljarboe@envirotech-inc.com

West Texas Midland/Odessa Area
Rayny Hagan
Technical Representative
Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Sample Summary

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	**Reported:**
201 S Halagueno St.	Project Number:	19026-0001	
Carlsbad NM, 88220	Project Manager:	Lynn Acosta	03/15/22 18:07

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
NG1	E203091-01A	Soil	03/14/22	03/15/22	Glass Jar, 4 oz.
NG2	E203091-02A	Soil	03/14/22	03/15/22	Glass Jar, 4 oz.
NG3	E203091-03A	Soil	03/14/22	03/15/22	Glass Jar, 4 oz.
NG4	E203091-04A	Soil	03/14/22	03/15/22	Glass Jar, 4 oz.
NG5	E203091-05A	Soil	03/14/22	03/15/22	Glass Jar, 4 oz.
NG6	E203091-06A	Soil	03/14/22	03/15/22	Glass Jar, 4 oz.
NG7	E203091-07A	Soil	03/14/22	03/15/22	Glass Jar, 4 oz.
NG8	E203091-08A	Soil	03/14/22	03/15/22	Glass Jar, 4 oz.
NG9	E203091-09A	Soil	03/14/22	03/15/22	Glass Jar, 4 oz.
NG10	E203091-10A	Soil	03/14/22	03/15/22	Glass Jar, 4 oz.
NG11	E203091-11A	Soil	03/14/22	03/15/22	Glass Jar, 4 oz.
NG12	E203091-12A	Soil	03/14/22	03/15/22	Glass Jar, 4 oz.
BG-Surf	E203091-13A	Soil	03/14/22	03/15/22	Glass Jar, 4 oz.
BG-1'	E203091-14A	Soil	03/14/22	03/15/22	Glass Jar, 4 oz.
BG-2'	E203091-15A	Soil	03/14/22	03/15/22	Glass Jar, 4 oz.
BG-3'	E203091-16A	Soil	03/14/22	03/15/22	Glass Jar, 4 oz.
BG-4'	E203091-17A	Soil	03/14/22	03/15/22	Glass Jar, 4 oz.

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynn Acosta	3/15/2022 6:07:39PM

NG1

E203091-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2212019
Benzene	ND	0.0250	1	03/15/22	03/15/22	
Ethylbenzene	ND	0.0250	1	03/15/22	03/15/22	
Toluene	ND	0.0250	1	03/15/22	03/15/22	
o-Xylene	ND	0.0250	1	03/15/22	03/15/22	
p,m-Xylene	ND	0.0500	1	03/15/22	03/15/22	
Total Xylenes	ND	0.0250	1	03/15/22	03/15/22	
Surrogate: 4-Bromochlorobenzene-PID		*91.5 %*	*70-130*	*03/15/22*	*03/15/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2212019
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/15/22	03/15/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.9 %*	*70-130*	*03/15/22*	*03/15/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2212012
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/22	03/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/22	03/15/22	
Surrogate: n-Nonane		*106 %*	*50-200*	*03/15/22*	*03/15/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2212017
Chloride	**814**	40.0	2	03/15/22	03/15/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynn Acosta	3/15/2022 6:07:39PM

NG2

E203091-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2212019
Benzene	ND	0.0250	1	03/15/22	03/15/22	
Ethylbenzene	ND	0.0250	1	03/15/22	03/15/22	
Toluene	ND	0.0250	1	03/15/22	03/15/22	
o-Xylene	ND	0.0250	1	03/15/22	03/15/22	
p,m-Xylene	ND	0.0500	1	03/15/22	03/15/22	
Total Xylenes	ND	0.0250	1	03/15/22	03/15/22	
Surrogate: 4-Bromochlorobenzene-PID		*87.5 %*	*70-130*	*03/15/22*	*03/15/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2212019
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/15/22	03/15/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*97.0 %*	*70-130*	*03/15/22*	*03/15/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2212012
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/22	03/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/22	03/15/22	
Surrogate: n-Nonane		*102 %*	*50-200*	*03/15/22*	*03/15/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2212017
Chloride	**700**	40.0	2	03/15/22	03/15/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynn Acosta	3/15/2022 6:07:39PM

NG3

E203091-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2212019
Benzene	ND	0.0250	1	03/15/22	03/15/22	
Ethylbenzene	ND	0.0250	1	03/15/22	03/15/22	
Toluene	ND	0.0250	1	03/15/22	03/15/22	
o-Xylene	ND	0.0250	1	03/15/22	03/15/22	
p,m-Xylene	ND	0.0500	1	03/15/22	03/15/22	
Total Xylenes	ND	0.0250	1	03/15/22	03/15/22	
Surrogate: 4-Bromochlorobenzene-PID		*92.9 %*	*70-130*	*03/15/22*	*03/15/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2212019
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/15/22	03/15/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.7 %*	*70-130*	*03/15/22*	*03/15/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2212012
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/22	03/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/22	03/15/22	
Surrogate: n-Nonane		*101 %*	*50-200*	*03/15/22*	*03/15/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2212017
Chloride	**1190**	200	10	03/15/22	03/15/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynn Acosta	3/15/2022 6:07:39PM

NG4

E203091-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2212019
Benzene	ND	0.0250	1	03/15/22	03/15/22	
Ethylbenzene	ND	0.0250	1	03/15/22	03/15/22	
Toluene	ND	0.0250	1	03/15/22	03/15/22	
o-Xylene	ND	0.0250	1	03/15/22	03/15/22	
p,m-Xylene	ND	0.0500	1	03/15/22	03/15/22	
Total Xylenes	ND	0.0250	1	03/15/22	03/15/22	
Surrogate: 4-Bromochlorobenzene-PID		*92.5 %*	*70-130*	*03/15/22*	*03/15/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2212019
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/15/22	03/15/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.0 %*	*70-130*	*03/15/22*	*03/15/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2212012
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/22	03/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/22	03/15/22	
Surrogate: n-Nonane		*106 %*	*50-200*	*03/15/22*	*03/15/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2212017
Chloride	**1760**	100	5	03/15/22	03/15/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynn Acosta	3/15/2022 6:07:39PM

NG5

E203091-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2212019
Benzene	ND	0.0250	1	03/15/22	03/15/22	
Ethylbenzene	ND	0.0250	1	03/15/22	03/15/22	
Toluene	ND	0.0250	1	03/15/22	03/15/22	
o-Xylene	ND	0.0250	1	03/15/22	03/15/22	
p,m-Xylene	ND	0.0500	1	03/15/22	03/15/22	
Total Xylenes	ND	0.0250	1	03/15/22	03/15/22	
Surrogate: 4-Bromochlorobenzene-PID		*91.7 %*	*70-130*	*03/15/22*	*03/15/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2212019
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/15/22	03/15/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.7 %*	*70-130*	*03/15/22*	*03/15/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2212012
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/22	03/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/22	03/15/22	
Surrogate: n-Nonane		*101 %*	*50-200*	*03/15/22*	*03/15/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2212017
Chloride	**2670**	200	10	03/15/22	03/15/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynn Acosta	3/15/2022 6:07:39PM

NG6

E203091-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2212019
Benzene	ND	0.0250	1	03/15/22	03/15/22	
Ethylbenzene	ND	0.0250	1	03/15/22	03/15/22	
Toluene	ND	0.0250	1	03/15/22	03/15/22	
o-Xylene	ND	0.0250	1	03/15/22	03/15/22	
p,m-Xylene	ND	0.0500	1	03/15/22	03/15/22	
Total Xylenes	ND	0.0250	1	03/15/22	03/15/22	
Surrogate: 4-Bromochlorobenzene-PID		*91.4 %*	*70-130*	*03/15/22*	*03/15/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2212019
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/15/22	03/15/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*101 %*	*70-130*	*03/15/22*	*03/15/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2212012
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/22	03/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/22	03/15/22	
Surrogate: n-Nonane		*103 %*	*50-200*	*03/15/22*	*03/15/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2212017
Chloride	**2870**	400	20	03/15/22	03/15/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynn Acosta	3/15/2022 6:07:39PM

NG7

E203091-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2212019
Benzene	ND	0.0250	1	03/15/22	03/15/22	
Ethylbenzene	ND	0.0250	1	03/15/22	03/15/22	
Toluene	ND	0.0250	1	03/15/22	03/15/22	
o-Xylene	ND	0.0250	1	03/15/22	03/15/22	
p,m-Xylene	ND	0.0500	1	03/15/22	03/15/22	
Total Xylenes	ND	0.0250	1	03/15/22	03/15/22	
Surrogate: 4-Bromochlorobenzene-PID		*90.8 %*	*70-130*	*03/15/22*	*03/15/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2212019
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/15/22	03/15/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*101 %*	*70-130*	*03/15/22*	*03/15/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2212012
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/22	03/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/22	03/15/22	
Surrogate: n-Nonane		*105 %*	*50-200*	*03/15/22*	*03/15/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2212017
Chloride	**3270**	400	20	03/15/22	03/15/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynn Acosta	3/15/2022 6:07:39PM

NG8

E203091-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2212019
Benzene	ND	0.0250	1	03/15/22	03/15/22	
Ethylbenzene	ND	0.0250	1	03/15/22	03/15/22	
Toluene	ND	0.0250	1	03/15/22	03/15/22	
o-Xylene	ND	0.0250	1	03/15/22	03/15/22	
p,m-Xylene	ND	0.0500	1	03/15/22	03/15/22	
Total Xylenes	ND	0.0250	1	03/15/22	03/15/22	
Surrogate: 4-Bromochlorobenzene-PID		*92.1 %*	*70-130*	*03/15/22*	*03/15/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2212019
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/15/22	03/15/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*100 %*	*70-130*	*03/15/22*	*03/15/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2212012
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/22	03/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/22	03/15/22	
Surrogate: n-Nonane		*106 %*	*50-200*	*03/15/22*	*03/15/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2212017
Chloride	**2430**	400	20	03/15/22	03/15/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynn Acosta	3/15/2022 6:07:39PM

NG9

E203091-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2212019
Benzene	ND	0.0250	1	03/15/22	03/15/22	
Ethylbenzene	ND	0.0250	1	03/15/22	03/15/22	
Toluene	ND	0.0250	1	03/15/22	03/15/22	
o-Xylene	ND	0.0250	1	03/15/22	03/15/22	
p,m-Xylene	ND	0.0500	1	03/15/22	03/15/22	
Total Xylenes	ND	0.0250	1	03/15/22	03/15/22	
Surrogate: 4-Bromochlorobenzene-PID		*90.1 %*	*70-130*	*03/15/22*	*03/15/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2212019
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/15/22	03/15/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*100 %*	*70-130*	*03/15/22*	*03/15/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2212012
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/22	03/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/22	03/15/22	
Surrogate: n-Nonane		*103 %*	*50-200*	*03/15/22*	*03/15/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2212017
Chloride	**2630**	200	10	03/15/22	03/15/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynn Acosta	3/15/2022 6:07:39PM

NG10

E203091-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2212019
Benzene	ND	0.0250	1	03/15/22	03/15/22	
Ethylbenzene	ND	0.0250	1	03/15/22	03/15/22	
Toluene	ND	0.0250	1	03/15/22	03/15/22	
o-Xylene	ND	0.0250	1	03/15/22	03/15/22	
p,m-Xylene	ND	0.0500	1	03/15/22	03/15/22	
Total Xylenes	ND	0.0250	1	03/15/22	03/15/22	
Surrogate: 4-Bromochlorobenzene-PID		*93.2 %*	*70-130*	*03/15/22*	*03/15/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2212019
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/15/22	03/15/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*101 %*	*70-130*	*03/15/22*	*03/15/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2212012
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/22	03/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/22	03/15/22	
Surrogate: n-Nonane		*106 %*	*50-200*	*03/15/22*	*03/15/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2212017
Chloride	**2860**	400	20	03/15/22	03/15/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynn Acosta	3/15/2022 6:07:39PM

NG11

E203091-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2212019
Benzene	ND	0.0250	1	03/15/22	03/15/22	
Ethylbenzene	ND	0.0250	1	03/15/22	03/15/22	
Toluene	ND	0.0250	1	03/15/22	03/15/22	
o-Xylene	ND	0.0250	1	03/15/22	03/15/22	
p,m-Xylene	ND	0.0500	1	03/15/22	03/15/22	
Total Xylenes	ND	0.0250	1	03/15/22	03/15/22	
Surrogate: 4-Bromochlorobenzene-PID		*92.4 %*	*70-130*	*03/15/22*	*03/15/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2212019
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/15/22	03/15/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*99.8 %*	*70-130*	*03/15/22*	*03/15/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2212012
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/22	03/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/22	03/15/22	
Surrogate: n-Nonane		*104 %*	*50-200*	*03/15/22*	*03/15/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2212017
Chloride	**3190**	400	20	03/15/22	03/15/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynn Acosta	3/15/2022 6:07:39PM

NG12

E203091-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2212019
Benzene	ND	0.0250	1	03/15/22	03/15/22	
Ethylbenzene	ND	0.0250	1	03/15/22	03/15/22	
Toluene	ND	0.0250	1	03/15/22	03/15/22	
o-Xylene	ND	0.0250	1	03/15/22	03/15/22	
p,m-Xylene	ND	0.0500	1	03/15/22	03/15/22	
Total Xylenes	ND	0.0250	1	03/15/22	03/15/22	
Surrogate: 4-Bromochlorobenzene-PID		*92.0 %*	*70-130*	*03/15/22*	*03/15/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2212019
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/15/22	03/15/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*100 %*	*70-130*	*03/15/22*	*03/15/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2212012
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/22	03/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/22	03/15/22	
Surrogate: n-Nonane		*118 %*	*50-200*	*03/15/22*	*03/15/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2212017
Chloride	**2790**	400	20	03/15/22	03/15/22	

QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	**Reported:**
201 S Halagueno St.	Project Number:	19026-0001	
Carlsbad NM, 88220	Project Manager:	Lynn Acosta	3/15/2022 6:07:39PM

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2212019-BLK1)									Prepared: 03/15/22 Analyzed: 03/15/22
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*7.41*		*8.00*		*92.6*	*70-130*			
LCS (2212019-BS1)									Prepared: 03/15/22 Analyzed: 03/15/22
Benzene	4.95	0.0250	5.00		99.0	70-130			
Ethylbenzene	5.28	0.0250	5.00		106	70-130			
Toluene	5.49	0.0250	5.00		110	70-130			
o-Xylene	5.21	0.0250	5.00		104	70-130			
p,m-Xylene	10.7	0.0500	10.0		107	70-130			
Total Xylenes	15.9	0.0250	15.0		106	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.17*		*8.00*		*89.7*	*70-130*			
Matrix Spike (2212019-MS1)				**Source: E203091-02**					Prepared: 03/15/22 Analyzed: 03/15/22
Benzene	4.91	0.0250	5.00	ND	98.2	54-133			
Ethylbenzene	5.24	0.0250	5.00	ND	105	61-133			
Toluene	5.44	0.0250	5.00	ND	109	61-130			
o-Xylene	5.19	0.0250	5.00	ND	104	63-131			
p,m-Xylene	10.7	0.0500	10.0	ND	107	63-131			
Total Xylenes	15.8	0.0250	15.0	ND	106	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.38*		*8.00*		*92.3*	*70-130*			
Matrix Spike Dup (2212019-MSD1)				**Source: E203091-02**					Prepared: 03/15/22 Analyzed: 03/15/22
Benzene	4.82	0.0250	5.00	ND	96.5	54-133	1.78	20	
Ethylbenzene	5.16	0.0250	5.00	ND	103	61-133	1.64	20	
Toluene	5.34	0.0250	5.00	ND	107	61-130	1.77	20	
o-Xylene	5.11	0.0250	5.00	ND	102	63-131	1.46	20	
p,m-Xylene	10.5	0.0500	10.0	ND	105	63-131	1.58	20	
Total Xylenes	15.6	0.0250	15.0	ND	104	63-131	1.54	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.34*		*8.00*		*91.7*	*70-130*			

QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	**Reported:**
201 S Halagueno St.	Project Number:	19026-0001	
Carlsbad NM, 88220	Project Manager:	Lynn Acosta	3/15/2022 6:07:39PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2212019-BLK1)									Prepared: 03/15/22 Analyzed: 03/15/22
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.80*		*8.00*		*97.5*	*70-130*			
LCS (2212019-BS2)									Prepared: 03/15/22 Analyzed: 03/15/22
Gasoline Range Organics (C6-C10)	49.1	20.0	50.0		98.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.62*		*8.00*		*95.2*	*70-130*			
Matrix Spike (2212019-MS2)				**Source: E203091-02**					Prepared: 03/15/22 Analyzed: 03/15/22
Gasoline Range Organics (C6-C10)	48.3	20.0	50.0	ND	96.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.70*		*8.00*		*96.3*	*70-130*			
Matrix Spike Dup (2212019-MSD2)				**Source: E203091-02**					Prepared: 03/15/22 Analyzed: 03/15/22
Gasoline Range Organics (C6-C10)	48.4	20.0	50.0	ND	96.8	70-130	0.292	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.65*		*8.00*		*95.6*	*70-130*			

QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	**Reported:**
201 S Halagueno St.	Project Number:	19026-0001	
Carlsbad NM, 88220	Project Manager:	Lynn Acosta	3/15/2022 6:07:39PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2212012-BLK1)									Prepared: 03/15/22 Analyzed: 03/15/22
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*57.9*		*50.0*		*116*	*50-200*			
LCS (2212012-BS1)									Prepared: 03/15/22 Analyzed: 03/15/22
Diesel Range Organics (C10-C28)	466	25.0	500		93.2	38-132			
Surrogate: n-Nonane	*56.4*		*50.0*		*113*	*50-200*			
Matrix Spike (2212012-MS1)				**Source: E203091-09**					Prepared: 03/15/22 Analyzed: 03/15/22
Diesel Range Organics (C10-C28)	481	25.0	500	ND	96.2	38-132			
Surrogate: n-Nonane	*60.9*		*50.0*		*122*	*50-200*			
Matrix Spike Dup (2212012-MSD1)				**Source: E203091-09**					Prepared: 03/15/22 Analyzed: 03/15/22
Diesel Range Organics (C10-C28)	497	25.0	500	ND	99.3	38-132	3.23	20	
Surrogate: n-Nonane	*61.2*		*50.0*		*122*	*50-200*			

QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	**Reported:**
201 S Halagueno St.	Project Number:	19026-0001	
Carlsbad NM, 88220	Project Manager:	Lynn Acosta	3/15/2022 6:07:39PM

Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2212017-BLK1)									Prepared: 03/15/22 Analyzed: 03/15/22
Chloride	ND	20.0							
LCS (2212017-BS1)									Prepared: 03/15/22 Analyzed: 03/15/22
Chloride	241	20.0	250		96.3	90-110			
Matrix Spike (2212017-MS1)				**Source: E203091-07**					Prepared: 03/15/22 Analyzed: 03/15/22
Chloride	4360	400	250	3270	434	80-120			M2
Matrix Spike Dup (2212017-MSD1)				**Source: E203091-07**					Prepared: 03/15/22 Analyzed: 03/15/22
Chloride	3330	400	250	3270	23.0	80-120	26.8	20	M2

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Definitions and Notes

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynn Acosta	03/15/22 18:07

M2	Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Project Information | Chain of Custody | Page 1 of 2

Client: SMA	**Bill To**
Project: Gravel Grinder	Attention: Melodie Sanjari
Project Manager: Lynn Acosta	Address: Marathon Oil
Address: 201 S. Halagueno Street	City, State, Zip
Carlsbad, NM 88220	Phone:
Phone: 5053208975	Email: msanjari@marathonoil.com
Email: ashley.maxwell@soudemriller.com	
Report due by:	

Lab Use Only

Lab WO# E203091 | Job Number 19026-0001

TAT: 1D X | 2D | 3D | Standard

EPA Program: CWA | SDWA | RCRA

State: NM | CO | UT | AZ | TX

Analysis and Method

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC-NM	Remarks
	3/14/22	Soil	1	NG1	1							X	
		Soil	1	NG2	2							X	
		Soil	1	NG3	3							X	
		Soil	1	NG4	4							X	
		Soil	1	NG5	5							X	
		Soil	1	NG6	6							X	
		Soil	1	NG7	7							X	
		Soil	1	NG8	8							X	
		Soil	1	NG9	9							X	
		Soil	1	NG10	10							X	

Additional Instructions: CC Lynn Acosta, Melodie Sanjari, and Ashley Maxwell on lab reports. Direct bill Marathon WBS TA.20.02750.002

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	3-14-22	2:31		3-14-22	14:31
	3-14-22	1633	Caitlin Christian	3/15/22	8:25

Lab Use Only
Received on ice: Y / N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: **S** - Soil, **Sd** - Solid, **Sg** - Sludge, **A** - Aqueous, **O** - Other

Container Type: **g** - glass, **p** - poly/plastic, **ag** - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

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Project Information | Chain of Custody | Page 2 of 2

Client: SMA	**Bill To**
Project: Gravel Grinder	Attention: Melodie Sanjari
Project Manager: Lynn Acosta	Address: Marathon Oil
Address: 201 S. Halagueno Street	City, State, Zip
Carlsbad, NM 88220	Phone:
Phone: 5053208975	Email: msanjari@marathonoil.com
Email: ashley.maxwell@soudemriller.com	
Report due by:	

Lab Use Only: Lab WO# E203091 | Job Number 19026-0001

TAT: 1D X | 2D | 3D | Standard

EPA Program: CWA | SDWA | RCRA

State: NM | CO | UT | AZ | TX

Analysis and Method: DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | BGDOC-NM

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	BGDOC-NM	Remarks
3/14/22	〃	Soil	1	NG11	11	X	
		Soil	1	NG12	12	X	
		Soil	1	~~NG13~~ BG - Surf	13	X	
		Soil	1	~~NG14~~ BG - 1'	14	X	
		Soil	1	~~NG15~~ BG - 2'	15	X	
		Soil	1	~~NG16~~ BG - 3'	16	X	
		Soil	1	BG - 4'	17		
		Soil	1				
		Soil	1				
		Soil	1				

Additional Instructions: CC Lynn Acosta, Melodie Sanjari, and Ashley Maxwell on lab reports. Direct bill Marathon WBS TA.20.02750.002

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Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	3-14-22	2:31		3-14-22	14:31
	3-14-22	1633	Carlin Carter	3/15/22	8:25

Lab Use Only: Received on ice: Y / N

T1 _____ T2 _____ T3 _____

AVG Temp °C 4

Sample Matrix: **S** - Soil, **Sd** - Solid, **Sg** - Sludge, **A** - Aqueous, **O** - Other _____

Container Type: **g** - glass, **p** - poly/plastic, **ag** - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

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Envirotech Analytical Laboratory

Printed: 3/15/2022 2:28:32PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Souder Miller Associates - Carlsbad	Date Received:	03/15/22 08:25	Work Order ID:	E203091
Phone:	(575) 200-5443	Date Logged In:	03/14/22 15:18	Logged In By:	Alexa Michaels
Email:	lynn.acosta@soudermiller.com	Due Date:	03/15/22 17:00 (0 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courrier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	No	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
15. Are VOC samples collected in VOA Vials?	NA	
16. Is the head space less than 6-8 mm (pea sized or less)?	NA	
17. Was a trip blank (TB) included for VOC analyses?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
19. Is the appropriate volume/weight or number of sample containers collected?	Yes	

Field Label

20. Were field sample labels filled out with the minimum information:		
Sample ID?	Yes	
Date/Time Collected?	No	
Collectors name?	No	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
24. Is lab filteration required and/or requested for dissolved metals?	No	

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No	
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA	

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Comments/Resolution

CC Lynn Acosta, Melodie Sanjari, and Ashley Maxwell on lab reports. Direct bill Marathon WBS TA.20.02750.002
Sampled times not provided on the COC.

Client Instruction

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

Date

envirotech Inc.

Project Information | Chain of Custody | Page 1 of 2

Client: SMA	Bill To
Project: Gravel Grinder	Attention: Melodie Sanjari
Project Manager: Lynn Acosta	Address: Marathon Oil
Address: 201 S. Halagueno Street	City, State, Zip
Carlsbad, NM 88220	Phone:
Phone: 5053208975	Email: msanjari@marathonoil.com
Email: ashley.maxwell@soudemriller.com	
Report due by:	

Lab Use Only: Lab WO# E203091 | Job Number 19026-0001

TAT: 1D X | 2D | 3D | Standard

EPA Program: CWA | SDWA | RCRA

State: NM | CO | UT | AZ | TX

Analysis and Method: DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | BGDOC-NM

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	BGDOC-NM	Remarks
	3/4/22	Soil	1	NG1	1	X	
		Soil	1	NG2	2	X	
		Soil	1	NG3	3	X	
		Soil	1	NG4	4	X	
		Soil	1	NG5	5	X	
		Soil	1	NG6	6	X	
		Soil	1	NG7	7	X	
		Soil	1	NG8	8	X	
		Soil	1	NG9	9	X	
		Soil	1	NG10	10	X	

Additional Instructions: CC Lynn Acosta, Melodie Sanjari, and Ashley Maxwell on lab reports. Direct bill Marathon WBS TA.20.02750.002

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	3-14-22	2:31		3-14-22	14:31
	3-14-22	1633		3/15/22	8:25

Lab Use Only: Received on ice: Y / N

T1 ____ T2 ____ T3 ____

AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other ____

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

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Project Information | Chain of Custody | Page 2 of 2

Client: SMA	Bill To	Lab Use Only
Project: Gravel Grinder	Attention: Melodie Sanjari	Lab WO# E203091
Project Manager: Lynn Acosta	Address: Marathon Oil	Job Number 19020-0001
Address: 201 S. Halagueno Street	City, State, Zip	
Carlsbad, NM 88220	Phone:	
Phone: 5053208975	Email: msanjari@marathonoil.com	
Email: ashley.maxwell@soudemriller.com		
Report due by:		

TAT				EPA Program	
1D	2D	3D	Standard	CWA	SDWA
X					

RCRA

State: NM | CO | UT | AZ | TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC-NM	Remarks
3/14/22	~	Soil	1	NG11	11							X	
		Soil	1	NG12	12							X	
		Soil	1	~~NG13~~ BG - Surf	13							X	
		Soil	1	~~NG14~~ BG - 1'	14							X	
		Soil	1	~~NG15~~ BG - 2'	15							X	
		Soil	1	~~NG16~~ BG - 3'	16							X	Per Lynn Acosta 3/15/22 CC
		Soil	1	BG - 4'	17								
		Soil	1										
		Soil	1										
		Soil	1										

Additional Instructions: CC Lynn Acosta, Melodie Sanjari, and Ashley Maxwell on lab reports. Direct bill Marathon WBS TA.20.02750.002

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Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	3-14-22	1:31		3-14-22	14:31
	3-14-22	1633		3/15/22	8:25

Lab Use Only
Received on ice: Y / N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

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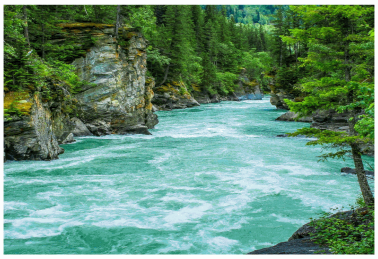
Report to:

Melodie Sanjari



5796 U.S. Hwy 64
Farmington, NM 87401

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

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Practical Solutions for a Better Tomorrow

Analytical Report

Souder Miller Associates - Carlsbad

Project Name:	Gravel Grinder
Work Order:	E203095
Job Number:	19026-0001
Received:	3/16/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/16/22

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.
Envirotech Inc, holds the NM SDWA certification for data reported. (Lab #NM00979)

Date Reported: 3/16/22

Melodie Sanjari
201 S Halagueno St.
Carlsbad, NM 88220

Project Name: Gravel Grinder
Workorder: E203095
Date Received: 3/16/2022 7:30:00AM

Melodie Sanjari,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/16/2022 7:30:00AM, under the Project Name: Gravel Grinder.

The analytical test results summarized in this report with the Project Name: Gravel Grinder apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Alexa Michaels
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West Texas Midland/Odessa Area
Rayny Hagan
Technical Representative
Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

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Sample Summary

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	**Reported:**
201 S Halagueno St.	Project Number:	19026-0001	
Carlsbad NM, 88220	Project Manager:	Melodie Sanjari	03/16/22 18:21

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SWG - 25	E203095-01A	Soil	03/15/22	03/16/22	Glass Jar, 4 oz.
SWG - 26	E203095-02A	Soil	03/15/22	03/16/22	Glass Jar, 4 oz.
SWG - 27	E203095-03A	Soil	03/15/22	03/16/22	Glass Jar, 4 oz.
SWG - 28	E203095-04A	Soil	03/15/22	03/16/22	Glass Jar, 4 oz.
SWG - 29	E203095-05A	Soil	03/15/22	03/16/22	Glass Jar, 4 oz.
SWG - 30	E203095-06A	Soil	03/15/22	03/16/22	Glass Jar, 4 oz.
SG - 31	E203095-07A	Soil	03/15/22	03/16/22	Glass Jar, 4 oz.
SG - 32	E203095-08A	Soil	03/15/22	03/16/22	Glass Jar, 4 oz.
SG - 33	E203095-09A	Soil	03/15/22	03/16/22	Glass Jar, 4 oz.
SG - 34	E203095-10A	Soil	03/15/22	03/16/22	Glass Jar, 4 oz.
SG - 35	E203095-11A	Soil	03/15/22	03/16/22	Glass Jar, 4 oz.
SG - 36	E203095-12A	Soil	03/15/22	03/16/22	Glass Jar, 4 oz.
SG - 37	E203095-13A	Soil	03/15/22	03/16/22	Glass Jar, 4 oz.
WG - 18	E203095-14A	Soil	03/15/22	03/16/22	Glass Jar, 4 oz.
WG - 19	E203095-15A	Soil	03/15/22	03/16/22	Glass Jar, 4 oz.
WG - 20	E203095-16A	Soil	03/15/22	03/16/22	Glass Jar, 4 oz.
WG - 21	E203095-17A	Soil	03/15/22	03/16/22	Glass Jar, 4 oz.
WG - 22	E203095-18A	Soil	03/15/22	03/16/22	Glass Jar, 4 oz.
WG - 23	E203095-19A	Soil	03/15/22	03/16/22	Glass Jar, 4 oz.
WG - 24	E203095-20A	Soil	03/15/22	03/16/22	Glass Jar, 4 oz.
NG - 13	E203095-21A	Soil	03/14/22	03/16/22	Glass Jar, 4 oz.
NG - 14	E203095-22A	Soil	03/14/22	03/16/22	Glass Jar, 4 oz.
NG - 15	E203095-23A	Soil	03/14/22	03/16/22	Glass Jar, 4 oz.
NG - 16	E203095-24A	Soil	03/14/22	03/16/22	Glass Jar, 4 oz.
NG - 17	E203095-25A	Soil	03/14/22	03/16/22	Glass Jar, 4 oz.

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Melodie Sanjari	3/16/2022 6:21:01PM

SWG - 25

E203095-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2212036
Benzene	ND	0.0250	1	03/16/22	03/16/22	
Ethylbenzene	ND	0.0250	1	03/16/22	03/16/22	
Toluene	ND	0.0250	1	03/16/22	03/16/22	
o-Xylene	ND	0.0250	1	03/16/22	03/16/22	
p,m-Xylene	ND	0.0500	1	03/16/22	03/16/22	
Total Xylenes	ND	0.0250	1	03/16/22	03/16/22	
Surrogate: 4-Bromochlorobenzene-PID		*91.6 %*	*70-130*	*03/16/22*	*03/16/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2212036
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/16/22	03/16/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*99.2 %*	*70-130*	*03/16/22*	*03/16/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2212040
Diesel Range Organics (C10-C28)	ND	25.0	1	03/16/22	03/16/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/16/22	03/16/22	
Surrogate: n-Nonane		*106 %*	*50-200*	*03/16/22*	*03/16/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2212038
Chloride	**848**	100	5	03/16/22	03/16/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Melodie Sanjari	3/16/2022 6:21:01PM

SWG - 26

E203095-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2212036
Benzene	ND	0.0250	1	03/16/22	03/16/22	
Ethylbenzene	ND	0.0250	1	03/16/22	03/16/22	
Toluene	ND	0.0250	1	03/16/22	03/16/22	
o-Xylene	ND	0.0250	1	03/16/22	03/16/22	
p,m-Xylene	ND	0.0500	1	03/16/22	03/16/22	
Total Xylenes	ND	0.0250	1	03/16/22	03/16/22	
Surrogate: 4-Bromochlorobenzene-PID		*92.2 %*	*70-130*	*03/16/22*	*03/16/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2212036
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/16/22	03/16/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*99.7 %*	*70-130*	*03/16/22*	*03/16/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2212040
Diesel Range Organics (C10-C28)	ND	25.0	1	03/16/22	03/16/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/16/22	03/16/22	
Surrogate: n-Nonane		*93.2 %*	*50-200*	*03/16/22*	*03/16/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2212038
Chloride	**886**	200	10	03/16/22	03/16/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Melodie Sanjari	3/16/2022 6:21:01PM

SWG - 27

E203095-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2212036
Benzene	ND	0.0250	1	03/16/22	03/16/22	
Ethylbenzene	ND	0.0250	1	03/16/22	03/16/22	
Toluene	ND	0.0250	1	03/16/22	03/16/22	
o-Xylene	ND	0.0250	1	03/16/22	03/16/22	
p,m-Xylene	ND	0.0500	1	03/16/22	03/16/22	
Total Xylenes	ND	0.0250	1	03/16/22	03/16/22	
Surrogate: 4-Bromochlorobenzene-PID		*92.8 %*	*70-130*	*03/16/22*	*03/16/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2212036
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/16/22	03/16/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*101 %*	*70-130*	*03/16/22*	*03/16/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2212040
Diesel Range Organics (C10-C28)	ND	25.0	1	03/16/22	03/16/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/16/22	03/16/22	
Surrogate: n-Nonane		*93.9 %*	*50-200*	*03/16/22*	*03/16/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2212038
Chloride	**1290**	400	20	03/16/22	03/16/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Melodie Sanjari	3/16/2022 6:21:01PM

SWG - 28

E203095-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2212036
Benzene	ND	0.0250	1	03/16/22	03/16/22	
Ethylbenzene	ND	0.0250	1	03/16/22	03/16/22	
Toluene	ND	0.0250	1	03/16/22	03/16/22	
o-Xylene	ND	0.0250	1	03/16/22	03/16/22	
p,m-Xylene	ND	0.0500	1	03/16/22	03/16/22	
Total Xylenes	ND	0.0250	1	03/16/22	03/16/22	
Surrogate: 4-Bromochlorobenzene-PID		*93.3 %*	*70-130*	*03/16/22*	*03/16/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2212036
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/16/22	03/16/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.8 %*	*70-130*	*03/16/22*	*03/16/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2212040
Diesel Range Organics (C10-C28)	ND	25.0	1	03/16/22	03/16/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/16/22	03/16/22	
Surrogate: n-Nonane		*93.0 %*	*50-200*	*03/16/22*	*03/16/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2212038
Chloride	**1000**	400	20	03/16/22	03/16/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Melodie Sanjari	3/16/2022 6:21:01PM

SWG - 29

E203095-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2212036
Benzene	ND	0.0250	1	03/16/22	03/16/22	
Ethylbenzene	ND	0.0250	1	03/16/22	03/16/22	
Toluene	ND	0.0250	1	03/16/22	03/16/22	
o-Xylene	ND	0.0250	1	03/16/22	03/16/22	
p,m-Xylene	ND	0.0500	1	03/16/22	03/16/22	
Total Xylenes	ND	0.0250	1	03/16/22	03/16/22	
Surrogate: 4-Bromochlorobenzene-PID		*92.7 %*	*70-130*	*03/16/22*	*03/16/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2212036
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/16/22	03/16/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*99.0 %*	*70-130*	*03/16/22*	*03/16/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2212040
Diesel Range Organics (C10-C28)	ND	25.0	1	03/16/22	03/16/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/16/22	03/16/22	
Surrogate: n-Nonane		*95.2 %*	*50-200*	*03/16/22*	*03/16/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2212038
Chloride	**747**	400	20	03/16/22	03/16/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Melodie Sanjari	3/16/2022 6:21:01PM

SWG - 30

E203095-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2212036
Benzene	ND	0.0250	1	03/16/22	03/16/22	
Ethylbenzene	ND	0.0250	1	03/16/22	03/16/22	
Toluene	ND	0.0250	1	03/16/22	03/16/22	
o-Xylene	ND	0.0250	1	03/16/22	03/16/22	
p,m-Xylene	ND	0.0500	1	03/16/22	03/16/22	
Total Xylenes	ND	0.0250	1	03/16/22	03/16/22	
Surrogate: 4-Bromochlorobenzene-PID		*92.2 %*	*70-130*	*03/16/22*	*03/16/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2212036
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/16/22	03/16/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*99.6 %*	*70-130*	*03/16/22*	*03/16/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2212040
Diesel Range Organics (C10-C28)	ND	25.0	1	03/16/22	03/16/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/16/22	03/16/22	
Surrogate: n-Nonane		*92.1 %*	*50-200*	*03/16/22*	*03/16/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2212038
Chloride	**830**	400	20	03/16/22	03/16/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Melodie Sanjari	3/16/2022 6:21:01PM

SG - 31

E203095-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2212036
Benzene	ND	0.0250	1	03/16/22	03/16/22	
Ethylbenzene	ND	0.0250	1	03/16/22	03/16/22	
Toluene	ND	0.0250	1	03/16/22	03/16/22	
o-Xylene	ND	0.0250	1	03/16/22	03/16/22	
p,m-Xylene	ND	0.0500	1	03/16/22	03/16/22	
Total Xylenes	ND	0.0250	1	03/16/22	03/16/22	
Surrogate: 4-Bromochlorobenzene-PID		*93.2 %*	*70-130*	*03/16/22*	*03/16/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2212036
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/16/22	03/16/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.6 %*	*70-130*	*03/16/22*	*03/16/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2212040
Diesel Range Organics (C10-C28)	ND	25.0	1	03/16/22	03/16/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/16/22	03/16/22	
Surrogate: n-Nonane		*92.4 %*	*50-200*	*03/16/22*	*03/16/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2212038
Chloride	**1540**	400	20	03/16/22	03/16/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Melodie Sanjari	3/16/2022 6:21:01PM

SG - 32

E203095-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2212036
Benzene	ND	0.0250	1	03/16/22	03/16/22	
Ethylbenzene	ND	0.0250	1	03/16/22	03/16/22	
Toluene	ND	0.0250	1	03/16/22	03/16/22	
o-Xylene	ND	0.0250	1	03/16/22	03/16/22	
p,m-Xylene	ND	0.0500	1	03/16/22	03/16/22	
Total Xylenes	ND	0.0250	1	03/16/22	03/16/22	
Surrogate: 4-Bromochlorobenzene-PID		*94.9 %*	*70-130*	*03/16/22*	*03/16/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2212036
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/16/22	03/16/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.4 %*	*70-130*	*03/16/22*	*03/16/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2212040
Diesel Range Organics (C10-C28)	ND	25.0	1	03/16/22	03/16/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/16/22	03/16/22	
Surrogate: n-Nonane		*90.8 %*	*50-200*	*03/16/22*	*03/16/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2212038
Chloride	**1070**	200	10	03/16/22	03/16/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Melodie Sanjari	3/16/2022 6:21:01PM

SG - 33

E203095-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2212036
Benzene	ND	0.0250	1	03/16/22	03/16/22	
Ethylbenzene	ND	0.0250	1	03/16/22	03/16/22	
Toluene	ND	0.0250	1	03/16/22	03/16/22	
o-Xylene	ND	0.0250	1	03/16/22	03/16/22	
p,m-Xylene	ND	0.0500	1	03/16/22	03/16/22	
Total Xylenes	ND	0.0250	1	03/16/22	03/16/22	
Surrogate: 4-Bromochlorobenzene-PID		*94.8 %*	*70-130*	*03/16/22*	*03/16/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2212036
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/16/22	03/16/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.4 %*	*70-130*	*03/16/22*	*03/16/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2212040
Diesel Range Organics (C10-C28)	ND	25.0	1	03/16/22	03/16/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/16/22	03/16/22	
Surrogate: n-Nonane		*91.6 %*	*50-200*	*03/16/22*	*03/16/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2212038
Chloride	**994**	200	10	03/16/22	03/16/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Melodie Sanjari	3/16/2022 6:21:01PM

SG - 34

E203095-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2212036
Benzene	ND	0.0250	1	03/16/22	03/16/22	
Ethylbenzene	ND	0.0250	1	03/16/22	03/16/22	
Toluene	ND	0.0250	1	03/16/22	03/16/22	
o-Xylene	ND	0.0250	1	03/16/22	03/16/22	
p,m-Xylene	ND	0.0500	1	03/16/22	03/16/22	
Total Xylenes	ND	0.0250	1	03/16/22	03/16/22	
Surrogate: 4-Bromochlorobenzene-PID		*95.0 %*	*70-130*	*03/16/22*	*03/16/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2212036
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/16/22	03/16/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.2 %*	*70-130*	*03/16/22*	*03/16/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2212040
Diesel Range Organics (C10-C28)	ND	25.0	1	03/16/22	03/16/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/16/22	03/16/22	
Surrogate: n-Nonane		*91.1 %*	*50-200*	*03/16/22*	*03/16/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2212038
Chloride	**1970**	400	20	03/16/22	03/16/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Melodie Sanjari	3/16/2022 6:21:01PM

SG - 35

E203095-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2212036
Benzene	ND	0.0250	1	03/16/22	03/16/22	
Ethylbenzene	ND	0.0250	1	03/16/22	03/16/22	
Toluene	ND	0.0250	1	03/16/22	03/16/22	
o-Xylene	ND	0.0250	1	03/16/22	03/16/22	
p,m-Xylene	ND	0.0500	1	03/16/22	03/16/22	
Total Xylenes	ND	0.0250	1	03/16/22	03/16/22	
Surrogate: 4-Bromochlorobenzene-PID		*92.2 %*	*70-130*	*03/16/22*	*03/16/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2212036
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/16/22	03/16/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*99.3 %*	*70-130*	*03/16/22*	*03/16/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2212040
Diesel Range Organics (C10-C28)	ND	25.0	1	03/16/22	03/16/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/16/22	03/16/22	
Surrogate: n-Nonane		*92.3 %*	*50-200*	*03/16/22*	*03/16/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2212038
Chloride	**2250**	200	10	03/16/22	03/16/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Melodie Sanjari	3/16/2022 6:21:01PM

SG - 36

E203095-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2212036
Benzene	ND	0.0250	1	03/16/22	03/16/22	
Ethylbenzene	ND	0.0250	1	03/16/22	03/16/22	
Toluene	ND	0.0250	1	03/16/22	03/16/22	
o-Xylene	ND	0.0250	1	03/16/22	03/16/22	
p,m-Xylene	ND	0.0500	1	03/16/22	03/16/22	
Total Xylenes	ND	0.0250	1	03/16/22	03/16/22	
Surrogate: 4-Bromochlorobenzene-PID		*93.2 %*	*70-130*	*03/16/22*	*03/16/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2212036
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/16/22	03/16/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*100 %*	*70-130*	*03/16/22*	*03/16/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2212040
Diesel Range Organics (C10-C28)	ND	25.0	1	03/16/22	03/16/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/16/22	03/16/22	
Surrogate: n-Nonane		*92.6 %*	*50-200*	*03/16/22*	*03/16/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2212038
Chloride	**957**	200	10	03/16/22	03/16/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Melodie Sanjari	3/16/2022 6:21:01PM

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E203095-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2212036
Benzene	ND	0.0250	1	03/16/22	03/16/22	
Ethylbenzene	ND	0.0250	1	03/16/22	03/16/22	
Toluene	ND	0.0250	1	03/16/22	03/16/22	
o-Xylene	ND	0.0250	1	03/16/22	03/16/22	
p,m-Xylene	ND	0.0500	1	03/16/22	03/16/22	
Total Xylenes	ND	0.0250	1	03/16/22	03/16/22	
Surrogate: 4-Bromochlorobenzene-PID		*93.5 %*	*70-130*	*03/16/22*	*03/16/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2212036
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/16/22	03/16/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*100 %*	*70-130*	*03/16/22*	*03/16/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2212040
Diesel Range Organics (C10-C28)	ND	25.0	1	03/16/22	03/16/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/16/22	03/16/22	
Surrogate: n-Nonane		*96.5 %*	*50-200*	*03/16/22*	*03/16/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2212038
Chloride	**1440**	400	20	03/16/22	03/16/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Melodie Sanjari	3/16/2022 6:21:01PM

WG - 18

E203095-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2212036
Benzene	ND	0.0250	1	03/16/22	03/16/22	
Ethylbenzene	ND	0.0250	1	03/16/22	03/16/22	
Toluene	ND	0.0250	1	03/16/22	03/16/22	
o-Xylene	ND	0.0250	1	03/16/22	03/16/22	
p,m-Xylene	ND	0.0500	1	03/16/22	03/16/22	
Total Xylenes	ND	0.0250	1	03/16/22	03/16/22	
Surrogate: 4-Bromochlorobenzene-PID		*93.3 %*	*70-130*	*03/16/22*	*03/16/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2212036
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/16/22	03/16/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*100 %*	*70-130*	*03/16/22*	*03/16/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2212040
Diesel Range Organics (C10-C28)	ND	25.0	1	03/16/22	03/16/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/16/22	03/16/22	
Surrogate: n-Nonane		*94.4 %*	*50-200*	*03/16/22*	*03/16/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2212038
Chloride	**3180**	400	20	03/16/22	03/16/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Melodie Sanjari	3/16/2022 6:21:01PM

WG - 19

E203095-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2212036
Benzene	ND	0.0250	1	03/16/22	03/16/22	
Ethylbenzene	ND	0.0250	1	03/16/22	03/16/22	
Toluene	ND	0.0250	1	03/16/22	03/16/22	
o-Xylene	ND	0.0250	1	03/16/22	03/16/22	
p,m-Xylene	ND	0.0500	1	03/16/22	03/16/22	
Total Xylenes	ND	0.0250	1	03/16/22	03/16/22	
Surrogate: 4-Bromochlorobenzene-PID		*92.8 %*	*70-130*	*03/16/22*	*03/16/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2212036
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/16/22	03/16/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*99.7 %*	*70-130*	*03/16/22*	*03/16/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2212040
Diesel Range Organics (C10-C28)	ND	25.0	1	03/16/22	03/16/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/16/22	03/16/22	
Surrogate: n-Nonane		*91.8 %*	*50-200*	*03/16/22*	*03/16/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2212038
Chloride	**1490**	200	10	03/16/22	03/16/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Melodie Sanjari	3/16/2022 6:21:01PM

WG - 20

E203095-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2212036
Benzene	ND	0.0250	1	03/16/22	03/16/22	
Ethylbenzene	ND	0.0250	1	03/16/22	03/16/22	
Toluene	ND	0.0250	1	03/16/22	03/16/22	
o-Xylene	ND	0.0250	1	03/16/22	03/16/22	
p,m-Xylene	ND	0.0500	1	03/16/22	03/16/22	
Total Xylenes	ND	0.0250	1	03/16/22	03/16/22	
Surrogate: 4-Bromochlorobenzene-PID		*92.7 %*	*70-130*	*03/16/22*	*03/16/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2212036
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/16/22	03/16/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*101 %*	*70-130*	*03/16/22*	*03/16/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2212040
Diesel Range Organics (C10-C28)	ND	25.0	1	03/16/22	03/16/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/16/22	03/16/22	
Surrogate: n-Nonane		*98.3 %*	*50-200*	*03/16/22*	*03/16/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2212038
Chloride	**1420**	200	10	03/16/22	03/16/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Melodie Sanjari	3/16/2022 6:21:01PM

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E203095-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2212036
Benzene	ND	0.0250	1	03/16/22	03/16/22	
Ethylbenzene	ND	0.0250	1	03/16/22	03/16/22	
Toluene	ND	0.0250	1	03/16/22	03/16/22	
o-Xylene	ND	0.0250	1	03/16/22	03/16/22	
p,m-Xylene	ND	0.0500	1	03/16/22	03/16/22	
Total Xylenes	ND	0.0250	1	03/16/22	03/16/22	
Surrogate: 4-Bromochlorobenzene-PID		*92.6 %*	*70-130*	*03/16/22*	*03/16/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2212036
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/16/22	03/16/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*99.4 %*	*70-130*	*03/16/22*	*03/16/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2212040
Diesel Range Organics (C10-C28)	ND	25.0	1	03/16/22	03/16/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/16/22	03/16/22	
Surrogate: n-Nonane		*85.1 %*	*50-200*	*03/16/22*	*03/16/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2212038
Chloride	**1520**	400	20	03/16/22	03/16/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Melodie Sanjari	3/16/2022 6:21:01PM

WG - 22

E203095-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2212036
Benzene	ND	0.0250	1	03/16/22	03/16/22	
Ethylbenzene	ND	0.0250	1	03/16/22	03/16/22	
Toluene	ND	0.0250	1	03/16/22	03/16/22	
o-Xylene	ND	0.0250	1	03/16/22	03/16/22	
p,m-Xylene	ND	0.0500	1	03/16/22	03/16/22	
Total Xylenes	ND	0.0250	1	03/16/22	03/16/22	
Surrogate: 4-Bromochlorobenzene-PID		*92.8 %*	*70-130*	*03/16/22*	*03/16/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2212036
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/16/22	03/16/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*101 %*	*70-130*	*03/16/22*	*03/16/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2212040
Diesel Range Organics (C10-C28)	ND	25.0	1	03/16/22	03/16/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/16/22	03/16/22	
Surrogate: n-Nonane		*101 %*	*50-200*	*03/16/22*	*03/16/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2212038
Chloride	**1790**	200	10	03/16/22	03/16/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Melodie Sanjari	3/16/2022 6:21:01PM

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E203095-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2212036
Benzene	ND	0.0250	1	03/16/22	03/16/22	
Ethylbenzene	ND	0.0250	1	03/16/22	03/16/22	
Toluene	ND	0.0250	1	03/16/22	03/16/22	
o-Xylene	ND	0.0250	1	03/16/22	03/16/22	
p,m-Xylene	ND	0.0500	1	03/16/22	03/16/22	
Total Xylenes	ND	0.0250	1	03/16/22	03/16/22	
Surrogate: 4-Bromochlorobenzene-PID		*92.0 %*	*70-130*	*03/16/22*	*03/16/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2212036
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/16/22	03/16/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*99.4 %*	*70-130*	*03/16/22*	*03/16/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2212040
Diesel Range Organics (C10-C28)	ND	25.0	1	03/16/22	03/16/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/16/22	03/16/22	
Surrogate: n-Nonane		*99.0 %*	*50-200*	*03/16/22*	*03/16/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2212038
Chloride	**1630**	200	10	03/16/22	03/16/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Melodie Sanjari	3/16/2022 6:21:01PM

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E203095-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2212036
Benzene	ND	0.0250	1	03/16/22	03/16/22	
Ethylbenzene	ND	0.0250	1	03/16/22	03/16/22	
Toluene	ND	0.0250	1	03/16/22	03/16/22	
o-Xylene	ND	0.0250	1	03/16/22	03/16/22	
p,m-Xylene	ND	0.0500	1	03/16/22	03/16/22	
Total Xylenes	ND	0.0250	1	03/16/22	03/16/22	
Surrogate: 4-Bromochlorobenzene-PID		*92.1 %*	*70-130*	*03/16/22*	*03/16/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2212036
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/16/22	03/16/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*100 %*	*70-130*	*03/16/22*	*03/16/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2212040
Diesel Range Organics (C10-C28)	ND	25.0	1	03/16/22	03/16/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/16/22	03/16/22	
Surrogate: n-Nonane		*105 %*	*50-200*	*03/16/22*	*03/16/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2212038
Chloride	**2010**	200	10	03/16/22	03/16/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Melodie Sanjari	3/16/2022 6:21:01PM

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E203095-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2212045
Benzene	ND	0.0250	1	03/16/22	03/16/22	
Ethylbenzene	ND	0.0250	1	03/16/22	03/16/22	
Toluene	ND	0.0250	1	03/16/22	03/16/22	
o-Xylene	ND	0.0250	1	03/16/22	03/16/22	
p,m-Xylene	ND	0.0500	1	03/16/22	03/16/22	
Total Xylenes	ND	0.0250	1	03/16/22	03/16/22	
Surrogate: Bromofluorobenzene		*97.0 %*	*70-130*	*03/16/22*	*03/16/22*	
Surrogate: 1,2-Dichloroethane-d4		*97.1 %*	*70-130*	*03/16/22*	*03/16/22*	
Surrogate: Toluene-d8		*100 %*	*70-130*	*03/16/22*	*03/16/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2212045
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/16/22	03/16/22	
Surrogate: Bromofluorobenzene		*97.0 %*	*70-130*	*03/16/22*	*03/16/22*	
Surrogate: 1,2-Dichloroethane-d4		*97.1 %*	*70-130*	*03/16/22*	*03/16/22*	
Surrogate: Toluene-d8		*100 %*	*70-130*	*03/16/22*	*03/16/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2212041
Diesel Range Organics (C10-C28)	ND	25.0	1	03/16/22	03/16/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/16/22	03/16/22	
Surrogate: n-Nonane		*102 %*	*50-200*	*03/16/22*	*03/16/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2212031
Chloride	**1540**	200	10	03/15/22	03/16/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Melodie Sanjari	3/16/2022 6:21:01PM

NG - 14

E203095-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2212045
Benzene	ND	0.0250	1	03/16/22	03/16/22	
Ethylbenzene	ND	0.0250	1	03/16/22	03/16/22	
Toluene	ND	0.0250	1	03/16/22	03/16/22	
o-Xylene	ND	0.0250	1	03/16/22	03/16/22	
p,m-Xylene	ND	0.0500	1	03/16/22	03/16/22	
Total Xylenes	ND	0.0250	1	03/16/22	03/16/22	
Surrogate: Bromofluorobenzene		*94.7 %*	*70-130*	*03/16/22*	*03/16/22*	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-130*	*03/16/22*	*03/16/22*	
Surrogate: Toluene-d8		*98.1 %*	*70-130*	*03/16/22*	*03/16/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2212045
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/16/22	03/16/22	
Surrogate: Bromofluorobenzene		*94.7 %*	*70-130*	*03/16/22*	*03/16/22*	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-130*	*03/16/22*	*03/16/22*	
Surrogate: Toluene-d8		*98.1 %*	*70-130*	*03/16/22*	*03/16/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2212041
Diesel Range Organics (C10-C28)	ND	25.0	1	03/16/22	03/16/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/16/22	03/16/22	
Surrogate: n-Nonane		*105 %*	*50-200*	*03/16/22*	*03/16/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2212031
Chloride	**1500**	200	10	03/15/22	03/16/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Melodie Sanjari	3/16/2022 6:21:01PM

NG - 15

E203095-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2212045
Benzene	ND	0.0250	1	03/16/22	03/16/22	
Ethylbenzene	ND	0.0250	1	03/16/22	03/16/22	
Toluene	ND	0.0250	1	03/16/22	03/16/22	
o-Xylene	ND	0.0250	1	03/16/22	03/16/22	
p,m-Xylene	ND	0.0500	1	03/16/22	03/16/22	
Total Xylenes	ND	0.0250	1	03/16/22	03/16/22	
Surrogate: Bromofluorobenzene		*93.8 %*	*70-130*	*03/16/22*	*03/16/22*	
Surrogate: 1,2-Dichloroethane-d4		*99.0 %*	*70-130*	*03/16/22*	*03/16/22*	
Surrogate: Toluene-d8		*99.8 %*	*70-130*	*03/16/22*	*03/16/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2212045
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/16/22	03/16/22	
Surrogate: Bromofluorobenzene		*93.8 %*	*70-130*	*03/16/22*	*03/16/22*	
Surrogate: 1,2-Dichloroethane-d4		*99.0 %*	*70-130*	*03/16/22*	*03/16/22*	
Surrogate: Toluene-d8		*99.8 %*	*70-130*	*03/16/22*	*03/16/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2212041
Diesel Range Organics (C10-C28)	ND	25.0	1	03/16/22	03/16/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/16/22	03/16/22	
Surrogate: n-Nonane		*75.7 %*	*50-200*	*03/16/22*	*03/16/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2212031
Chloride	**1660**	200	10	03/15/22	03/16/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Melodie Sanjari	3/16/2022 6:21:01PM

NG - 16

E203095-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2212045
Benzene	ND	0.0250	1	03/16/22	03/16/22	
Ethylbenzene	ND	0.0250	1	03/16/22	03/16/22	
Toluene	ND	0.0250	1	03/16/22	03/16/22	
o-Xylene	ND	0.0250	1	03/16/22	03/16/22	
p,m-Xylene	ND	0.0500	1	03/16/22	03/16/22	
Total Xylenes	ND	0.0250	1	03/16/22	03/16/22	
Surrogate: Bromofluorobenzene		*94.8 %*	*70-130*	*03/16/22*	*03/16/22*	
Surrogate: 1,2-Dichloroethane-d4		*98.9 %*	*70-130*	*03/16/22*	*03/16/22*	
Surrogate: Toluene-d8		*99.2 %*	*70-130*	*03/16/22*	*03/16/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2212045
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/16/22	03/16/22	
Surrogate: Bromofluorobenzene		*94.8 %*	*70-130*	*03/16/22*	*03/16/22*	
Surrogate: 1,2-Dichloroethane-d4		*98.9 %*	*70-130*	*03/16/22*	*03/16/22*	
Surrogate: Toluene-d8		*99.2 %*	*70-130*	*03/16/22*	*03/16/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2212041
Diesel Range Organics (C10-C28)	ND	25.0	1	03/16/22	03/16/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/16/22	03/16/22	
Surrogate: n-Nonane		*109 %*	*50-200*	*03/16/22*	*03/16/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2212031
Chloride	**2650**	400	20	03/15/22	03/16/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Melodie Sanjari	3/16/2022 6:21:01PM

NG - 17

E203095-25

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2212045
Benzene	ND	0.0250	1	03/16/22	03/16/22	
Ethylbenzene	ND	0.0250	1	03/16/22	03/16/22	
Toluene	ND	0.0250	1	03/16/22	03/16/22	
o-Xylene	ND	0.0250	1	03/16/22	03/16/22	
p,m-Xylene	ND	0.0500	1	03/16/22	03/16/22	
Total Xylenes	ND	0.0250	1	03/16/22	03/16/22	
Surrogate: Bromofluorobenzene		*93.8 %*	*70-130*	*03/16/22*	*03/16/22*	
Surrogate: 1,2-Dichloroethane-d4		*97.0 %*	*70-130*	*03/16/22*	*03/16/22*	
Surrogate: Toluene-d8		*97.1 %*	*70-130*	*03/16/22*	*03/16/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2212045
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/16/22	03/16/22	
Surrogate: Bromofluorobenzene		*93.8 %*	*70-130*	*03/16/22*	*03/16/22*	
Surrogate: 1,2-Dichloroethane-d4		*97.0 %*	*70-130*	*03/16/22*	*03/16/22*	
Surrogate: Toluene-d8		*97.1 %*	*70-130*	*03/16/22*	*03/16/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2212041
Diesel Range Organics (C10-C28)	ND	25.0	1	03/16/22	03/16/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/16/22	03/16/22	
Surrogate: n-Nonane		*110 %*	*50-200*	*03/16/22*	*03/16/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2212031
Chloride	**2040**	200	10	03/15/22	03/16/22	

QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	**Reported:**
201 S Halagueno St.	Project Number:	19026-0001	
Carlsbad NM, 88220	Project Manager:	Melodie Sanjari	3/16/2022 6:21:01PM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2212045-BLK1)									Prepared: 03/16/22 Analyzed: 03/16/22
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	*0.458*		*0.500*		*91.5*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.517*		*0.500*		*103*	*70-130*			
Surrogate: Toluene-d8	*0.496*		*0.500*		*99.1*	*70-130*			
LCS (2212045-BS1)									Prepared: 03/16/22 Analyzed: 03/16/22
Benzene	2.77	0.0250	2.50		111	70-130			
Ethylbenzene	2.86	0.0250	2.50		114	70-130			
Toluene	2.86	0.0250	2.50		114	70-130			
o-Xylene	2.74	0.0250	2.50		110	70-130			
p,m-Xylene	5.54	0.0500	5.00		111	70-130			
Total Xylenes	8.28	0.0250	7.50		110	70-130			
Surrogate: Bromofluorobenzene	*0.485*		*0.500*		*97.0*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.500*		*0.500*		*100*	*70-130*			
Surrogate: Toluene-d8	*0.523*		*0.500*		*105*	*70-130*			
LCS Dup (2212045-BSD1)									Prepared: 03/16/22 Analyzed: 03/16/22
Benzene	2.73	0.0250	2.50		109	70-130	1.31	23	
Ethylbenzene	2.77	0.0250	2.50		111	70-130	3.30	27	
Toluene	2.78	0.0250	2.50		111	70-130	2.80	24	
o-Xylene	2.65	0.0250	2.50		106	70-130	3.28	27	
p,m-Xylene	5.36	0.0500	5.00		107	70-130	3.29	27	
Total Xylenes	8.01	0.0250	7.50		107	70-130	3.29	27	
Surrogate: Bromofluorobenzene	*0.483*		*0.500*		*96.6*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.499*		*0.500*		*99.8*	*70-130*			
Surrogate: Toluene-d8	*0.516*		*0.500*		*103*	*70-130*			

QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	**Reported:**
201 S Halagueno St.	Project Number:	19026-0001	
Carlsbad NM, 88220	Project Manager:	Melodie Sanjari	3/16/2022 6:21:01PM

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2212036-BLK1)									Prepared: 03/16/22 Analyzed: 03/16/22
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*7.51*		*8.00*		*93.9*	*70-130*			
LCS (2212036-BS1)									Prepared: 03/16/22 Analyzed: 03/16/22
Benzene	4.81	0.0250	5.00		96.3	70-130			
Ethylbenzene	5.15	0.0250	5.00		103	70-130			
Toluene	5.33	0.0250	5.00		107	70-130			
o-Xylene	5.11	0.0250	5.00		102	70-130			
p,m-Xylene	10.5	0.0500	10.0		105	70-130			
Total Xylenes	15.6	0.0250	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.53*		*8.00*		*94.1*	*70-130*			
LCS Dup (2212036-BSD1)									Prepared: 03/16/22 Analyzed: 03/16/22
Benzene	4.92	0.0250	5.00		98.4	70-130	2.12	20	
Ethylbenzene	5.25	0.0250	5.00		105	70-130	1.77	20	
Toluene	5.43	0.0250	5.00		109	70-130	1.90	20	
o-Xylene	5.19	0.0250	5.00		104	70-130	1.61	20	
p,m-Xylene	10.7	0.0500	10.0		107	70-130	1.67	20	
Total Xylenes	15.8	0.0250	15.0		106	70-130	1.65	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.59*		*8.00*		*94.9*	*70-130*			

QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	**Reported:**
201 S Halagueno St.	Project Number:	19026-0001	
Carlsbad NM, 88220	Project Manager:	Melodie Sanjari	3/16/2022 6:21:01PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2212036-BLK1)									Prepared: 03/16/22 Analyzed: 03/16/22
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.56*		*8.00*		*94.5*	*70-130*			
LCS (2212036-BS2)									Prepared: 03/16/22 Analyzed: 03/16/22
Gasoline Range Organics (C6-C10)	49.0	20.0	50.0		98.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.59*		*8.00*		*94.8*	*70-130*			
LCS Dup (2212036-BSD2)									Prepared: 03/16/22 Analyzed: 03/16/22
Gasoline Range Organics (C6-C10)	48.4	20.0	50.0		96.8	70-130	1.32	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.64*		*8.00*		*95.5*	*70-130*			

QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	**Reported:**
201 S Halagueno St.	Project Number:	19026-0001	
Carlsbad NM, 88220	Project Manager:	Melodie Sanjari	3/16/2022 6:21:01PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2212045-BLK1)									Prepared: 03/16/22 Analyzed: 03/16/22
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	*0.458*		*0.500*		*91.5*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.517*		*0.500*		*103*	*70-130*			
Surrogate: Toluene-d8	*0.496*		*0.500*		*99.1*	*70-130*			
LCS (2212045-BS2)									Prepared: 03/16/22 Analyzed: 03/16/22
Gasoline Range Organics (C6-C10)	60.3	20.0	50.0		121	70-130			
Surrogate: Bromofluorobenzene	*0.475*		*0.500*		*94.9*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.494*		*0.500*		*98.7*	*70-130*			
Surrogate: Toluene-d8	*0.522*		*0.500*		*104*	*70-130*			
LCS Dup (2212045-BSD2)									Prepared: 03/16/22 Analyzed: 03/16/22
Gasoline Range Organics (C6-C10)	62.7	20.0	50.0		125	70-130	3.87	20	
Surrogate: Bromofluorobenzene	*0.471*		*0.500*		*94.1*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.499*		*0.500*		*99.8*	*70-130*			
Surrogate: Toluene-d8	*0.520*		*0.500*		*104*	*70-130*			

QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	**Reported:**
201 S Halagueno St.	Project Number:	19026-0001	
Carlsbad NM, 88220	Project Manager:	Melodie Sanjari	3/16/2022 6:21:01PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2212040-BLK1)									Prepared: 03/16/22 Analyzed: 03/16/22
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*47.2*		*50.0*		*94.4*	*50-200*			
LCS (2212040-BS1)									Prepared: 03/16/22 Analyzed: 03/16/22
Diesel Range Organics (C10-C28)	450	25.0	500		89.9	38-132			
Surrogate: n-Nonane	*40.9*		*50.0*		*81.8*	*50-200*			
LCS Dup (2212040-BSD1)									Prepared: 03/16/22 Analyzed: 03/16/22
Diesel Range Organics (C10-C28)	335	25.0	500		67.0	38-132	29.1	20	R2
Surrogate: n-Nonane	*40.0*		*50.0*		*80.1*	*50-200*			

QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	**Reported:**
201 S Halagueno St.	Project Number:	19026-0001	
Carlsbad NM, 88220	Project Manager:	Melodie Sanjari	3/16/2022 6:21:01PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2212041-BLK1)									Prepared: 03/16/22 Analyzed: 03/16/22
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*48.7*		*50.0*		*97.4*	*50-200*			
LCS (2212041-BS1)									Prepared: 03/16/22 Analyzed: 03/16/22
Diesel Range Organics (C10-C28)	466	25.0	500		93.3	38-132			
Surrogate: n-Nonane	*49.1*		*50.0*		*98.2*	*50-200*			
LCS Dup (2212041-BSD1)									Prepared: 03/16/22 Analyzed: 03/16/22
Diesel Range Organics (C10-C28)	465	25.0	500		92.9	38-132	0.354	20	
Surrogate: n-Nonane	*48.1*		*50.0*		*96.3*	*50-200*			

QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	**Reported:**
201 S Halagueno St.	Project Number:	19026-0001	
Carlsbad NM, 88220	Project Manager:	Melodie Sanjari	3/16/2022 6:21:01PM

Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2212031-BLK1)									Prepared: 03/15/22 Analyzed: 03/16/22
Chloride	ND	20.0							
LCS (2212031-BS1)									Prepared: 03/15/22 Analyzed: 03/16/22
Chloride	266	20.0	250		106	90-110			
Matrix Spike (2212031-MS1)				**Source: E203080-01**					Prepared: 03/15/22 Analyzed: 03/16/22
Chloride	256	20.0	250	ND	102	80-120			
Matrix Spike Dup (2212031-MSD1)				**Source: E203080-01**					Prepared: 03/15/22 Analyzed: 03/16/22
Chloride	262	20.0	250	ND	105	80-120	2.21	20	

QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	**Reported:**
201 S Halagueno St.	Project Number:	19026-0001	
Carlsbad NM, 88220	Project Manager:	Melodie Sanjari	3/16/2022 6:21:01PM

Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2212038-BLK1)									Prepared: 03/16/22 Analyzed: 03/16/22
Chloride	ND	20.0							
LCS (2212038-BS1)									Prepared: 03/16/22 Analyzed: 03/16/22
Chloride	250	20.0	250		100	90-110			
LCS Dup (2212038-BSD1)									Prepared: 03/16/22 Analyzed: 03/16/22
Chloride	249	20.0	250		99.4	90-110	0.578	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Definitions and Notes

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Melodie Sanjari	03/16/22 18:21

R2	The RPD exceeded the acceptance limit.
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Project Information

Chain of Custody

Zii-Hour

Client:	Marathon
Project:	Gravel Grinder
Project Manager:	Mel Sanjari
Address:	
City, State, Zip	
Phone:	
Email:	
Report due by:	

Bill To

Attention:	
Address:	
City, State, Zip	
Phone:	
Email:	

WO# TA.20.027 50.002

Lab Use Only

Lab WO#	Job Number
PE203095	19026-0001

TAT

1D	3D
X	

EPA Program

RCRA	CWA	SDWA

State

NM	CO	UT	AZ
TX	OK		

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC - NM	BGDOC - TX			Remarks
						Analysis and Method												
1300	3/15/22	S	1	SWG-25	1									X				
1305	3/15/22	S	1	SWG-26	2									X				
1307	3/15/22	S	1	SWG-27	3									X				
1310	3/15/22	S	1	SWG-28	4									X				
1315	3/15/22	S	1	SWG-29	5									X				
1318	3/15/22	S	1	SWG-30	6									X				
1340	3/15/22	S	1	SG-31	7									X				
1355	3/15/22	S	1	SG-32	8									X				
1400	3/15/22	S	1	SG-33	9									X				
1407	3/15/22	S	1	SG-34	10									X				

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: _____

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	3/15/22	1517		3-15-22	1517
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	3-15-22	1800	Courtney Clutter	3/16/22	7:30
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Lab Use Only

Received on ice: (Y) / N

T1 _____ T2 _____ T3 _____

AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

envirotech

Project Information

Chain of Custody

24-Hour

Client: Marathon
Project: Grinder Grinder
Project Manager: Mel Sanjari
Address:
City, State, Zip
Phone:
Email:
Report due by:

Bill To
Attention:
Address:
City, State, Zip
Phone:
Email:

Lab Use Only
Lab WO# PE203095
Job Number 19026-0001

TAT: 1D X, 3D

EPA Program: RCRA, CWA, SDWA

State: NM, CO, UT, AZ, TX, OK

Analysis and Method

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC - NM	BGDOC - TX			Remarks
1430	3/15/22	S	1	SG-35	11									X				
1505	3/15/22	S	1	SG-36	12									X				
1510	3/15/22	S	1	SG-37	13									X				

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	3/15/22	1517		3-15-22	15 17
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	3/15/22	1800	Caitlin Christian	3/16/22	7:30
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Lab Use Only
Received on ice: (Y) / N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

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Envirotech Analytical Laboratory

Printed: 3/16/2022 9:52:44AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Souder Miller Associates - Carlsbad	Date Received:	03/16/22 07:30	Work Order ID:	E203095
Phone:	(575) 200-5443	Date Logged In:	03/15/22 16:37	Logged In By:	Caitlin Christian
Email:		Due Date:	03/16/22 17:00 (0 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Carrier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
15. Are VOC samples collected in VOA Vials?	NA	
16. Is the head space less than 6-8 mm (pea sized or less)?	NA	
17. Was a trip blank (TB) included for VOC analyses?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
19. Is the appropriate volume/weight or number of sample containers collected?	Yes	

Field Label

20. Were field sample labels filled out with the minimum information:		
Sample ID?	Yes	
Date/Time Collected?	Yes	
Collectors name?	No	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
24. Is lab filteration required and/or requested for dissolved metals?	No	

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No	
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA	

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: na

Comments/Resolution

Recieved an additional 12 samples. Spoke with Lynn Acosta asked to add samples and run for same analysis.

Client Instruction

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

Date

envirotech Inc.

Project Information (SMA) Chain of Custody Page 1 of 13

Souder Miller 3/16/22 CC

24-Hour

Client: Marathon Associates
Project: Gravel Grinder
Project Manager: Mel Sanjari
Address:
City, State, Zip
Phone:
Email:
Report due by:

Bill To
Attention: SMA
Address:
City, State, Zip
Phone:
Email:

WO# TA.20.027 50.002

Lab Use Only: Lab WO# PE203095 | Job Number 19026-0001
TAT: 1D X | 3D
EPA Program: RCRA | CWA | SDWA
State: NM | CO | UT | AZ | TX | OK

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC - NM	BGDOC - TX	Remarks
1300	3/15/22	S	1	SWG-25	1							X		
1305	3/15/22	S	1	SWG-26	2							X		
1307	3/15/22	S	1	SWG-27	3							X		
1310	3/15/22	S	1	SWG-28	4							X		
1315	3/15/22	S	1	SWG-29	5							X		
1318	3/15/22	S	1	SWG-30	6							X		
1348	3/15/22	S	1	SG-31	7							X		
1355	3/15/22	S	1	SG-32	8							X		
1400	3/15/22	S	1	SG-33	9							X		
1407	3/15/22	S	1	SG-34	10							X		

Additional Instructions:
email Lynn Acosta/Ashley Maxwell/Mel Sanjari

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Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	3/15/22	1517		3-15-22	1517
	3-15-22	1800		3/16/22	7:30

Lab Use Only
Received on ice: Y / N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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Project Information (SMA) Chain of Custody

Souder Miller 3/16/22 CC

24-Hour

Client: Marathon ASSOCIATES
Project: Grinder Grinder
Project Manager: Mel Sanjari
Address:
City, State, Zip
Phone:
Email:
Report due by:

Bill To
Attention: SMA
Address:
City, State, Zip
Phone:
Email:

Lab Use Only: Lab WO# PE203095 | Job Number 19026-0001
TAT: 1D X | 3D
EPA Program: RCRA | CWA | SDWA
State: NM | CO | UT | AZ | TX | OK

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC - NM	BGDOC - TX	Remarks
1430	3/15/22	S	1	SG-35	11							X		
1505	3/15/22	S	1	SG-36	12							X		
1510	3/15/22	S	1	SG-37	13							X		
9:05	3/15/22	S	1	WG-18	14							X		Samples added per Lynn Acosta
9:07	3/15/22	S	1	WG-19	15							X		3/16/22 CC
9:10	3/15/22	S	1	WG-20	16							X		
9:12	3/15/22	S	1	WG-21	17							X		
9:15	3/15/22	S	1	WG-22	18							X		
9:17	3/15/22	S	1	WG-23	19							X		
9:20	3/15/22	S	1	WG-24	20							X		

Additional Instructions:
email Lynn Acosta / Ashley Maxwell / Mel Sanjari

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Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	3/15/22	1800	Caitlin Christian	3/16/22	7:30
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Lab Use Only
Received on ice: Y / N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
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Project Information (SMA) Chain of Custody Page 3 of 3

Sauder Miller 3/16/22 cc

Client: ~~Marathon~~ Associates	Bill To	Lab Use Only	TAT / EPA Program
Project: Gravel Grinder	Attention: SMA	Lab WO# E203095	Job Number 19026-0001
Project Manager: Mel Sanjari	Address:	1D X	2D 3D Standard 24-Hour
Address:	City, State, Zip	EPA Program: CWA SDWA RCRA	
City, State, Zip	Phone:	State: NM CO UT AZ TX	
Phone:	Email:		
Email:			
Report due by:			

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC-NM	Remarks
14:15	3/14/22	S	1	NG-13	21							X	Samples Added per Lynn Acosta 3/16/22 CC
15:27	3/14/22	S	1	NG-14	22							X	
15:31	3/14/22	S	1	NG-15	23							X	
15:35	3/14/22	S	1	NG-16	24							X	
15:40	3/14/22	S	1	NG-17	25							X	

Additional Instructions:
email Lynn Acosta/Ashley Maxwell/Mel Sanjari

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Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date 3/16/22	Time 7:30
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Lab Use Only
Received on ice: (Y) / N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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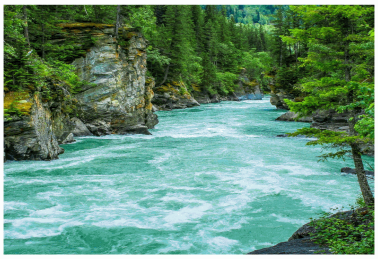
Report to:

Lynn Acosta



5796 U.S. Hwy 64
Farmington, NM 87401

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

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Souder Miller Associates - Carlsbad

Project Name:	Gravel Grinder
Work Order:	E203100
Job Number:	19026-0001
Received:	3/17/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/17/22

Date Reported: 3/17/22

Lynn Acosta
201 S Halagueno St.
Carlsbad, NM 88220

Project Name: Gravel Grinder
Workorder: E203100
Date Received: 3/17/2022 8:30:00AM

Lynn Acosta,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/17/2022 8:30:00AM, under the Project Name: Gravel Grinder.

The analytical test results summarized in this report with the Project Name: Gravel Grinder apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Alexa Michaels
Sample Custody Officer
Office: 505-632-1881
labadmin@envirotech-inc.com

Field Offices:

Southern New Mexico Area
Lynn Jarboe
Technical Representative/Client Services
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljarboe@envirotech-inc.com

West Texas Midland/Odessa Area
Rayny Hagan
Technical Representative
Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

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Sample Summary

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	**Reported:**
201 S Halagueno St.	Project Number:	19026-0001	
Carlsbad NM, 88220	Project Manager:	Lynn Acosta	03/17/22 17:34

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SG 38	E203100-01A	Soil	03/16/22	03/17/22	Glass Jar, 4 oz.
SG 39	E203100-02A	Soil	03/16/22	03/17/22	Glass Jar, 4 oz.
SG 40	E203100-03A	Soil	03/16/22	03/17/22	Glass Jar, 4 oz.
SW 1	E203100-04A	Soil	03/16/22	03/17/22	Glass Jar, 4 oz.
SW 2	E203100-05A	Soil	03/16/22	03/17/22	Glass Jar, 4 oz.
SW 3	E203100-06A	Soil	03/16/22	03/17/22	Glass Jar, 4 oz.
SW 4	E203100-07A	Soil	03/16/22	03/17/22	Glass Jar, 4 oz.
SW 5	E203100-08A	Soil	03/16/22	03/17/22	Glass Jar, 4 oz.
SW 6	E203100-09A	Soil	03/16/22	03/17/22	Glass Jar, 4 oz.
SW 7	E203100-10A	Soil	03/16/22	03/17/22	Glass Jar, 4 oz.
SW 8	E203100-11A	Soil	03/16/22	03/17/22	Glass Jar, 4 oz.
SW 9	E203100-12A	Soil	03/16/22	03/17/22	Glass Jar, 4 oz.
SW 10	E203100-13A	Soil	03/16/22	03/17/22	Glass Jar, 4 oz.
SW 11	E203100-14A	Soil	03/16/22	03/17/22	Glass Jar, 4 oz.
SW 12	E203100-15A	Soil	03/16/22	03/17/22	Glass Jar, 4 oz.
SW 13	E203100-16A	Soil	03/16/22	03/17/22	Glass Jar, 4 oz.
SW 14	E203100-17A	Soil	03/16/22	03/17/22	Glass Jar, 4 oz.
SW 15	E203100-18A	Soil	03/16/22	03/17/22	Glass Jar, 4 oz.
SW 16	E203100-19A	Soil	03/16/22	03/17/22	Glass Jar, 4 oz.
SW 17	E203100-20A	Soil	03/16/22	03/17/22	Glass Jar, 4 oz.
SW 18	E203100-21A	Soil	03/16/22	03/17/22	Glass Jar, 4 oz.
SW 19	E203100-22A	Soil	03/16/22	03/17/22	Glass Jar, 4 oz.

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynn Acosta	3/17/2022 5:34:21PM

SG 38

E203100-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2212064
Benzene	ND	0.0250	1	03/17/22	03/17/22	
Ethylbenzene	ND	0.0250	1	03/17/22	03/17/22	
Toluene	ND	0.0250	1	03/17/22	03/17/22	
o-Xylene	ND	0.0250	1	03/17/22	03/17/22	
p,m-Xylene	ND	0.0500	1	03/17/22	03/17/22	
Total Xylenes	ND	0.0250	1	03/17/22	03/17/22	
Surrogate: 4-Bromochlorobenzene-PID		*92.7 %*	*70-130*	*03/17/22*	*03/17/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2212064
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/17/22	03/17/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*99.9 %*	*70-130*	*03/17/22*	*03/17/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2212067
Diesel Range Organics (C10-C28)	ND	25.0	1	03/17/22	03/17/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/17/22	03/17/22	
Surrogate: n-Nonane		*85.4 %*	*50-200*	*03/17/22*	*03/17/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2212066
Chloride	**1000**	200	10	03/17/22	03/17/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynn Acosta	3/17/2022 5:34:21PM

SG 39

E203100-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2212064
Benzene	ND	0.0250	1	03/17/22	03/17/22	
Ethylbenzene	ND	0.0250	1	03/17/22	03/17/22	
Toluene	ND	0.0250	1	03/17/22	03/17/22	
o-Xylene	ND	0.0250	1	03/17/22	03/17/22	
p,m-Xylene	ND	0.0500	1	03/17/22	03/17/22	
Total Xylenes	ND	0.0250	1	03/17/22	03/17/22	
Surrogate: 4-Bromochlorobenzene-PID		*93.6 %*	*70-130*	*03/17/22*	*03/17/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2212064
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/17/22	03/17/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*99.9 %*	*70-130*	*03/17/22*	*03/17/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2212067
Diesel Range Organics (C10-C28)	ND	25.0	1	03/17/22	03/17/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/17/22	03/17/22	
Surrogate: n-Nonane		*73.4 %*	*50-200*	*03/17/22*	*03/17/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2212066
Chloride	**1160**	400	20	03/17/22	03/17/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynn Acosta	3/17/2022 5:34:21PM

SG 40

E203100-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2212064
Benzene	ND	0.0250	1	03/17/22	03/17/22	
Ethylbenzene	ND	0.0250	1	03/17/22	03/17/22	
Toluene	ND	0.0250	1	03/17/22	03/17/22	
o-Xylene	ND	0.0250	1	03/17/22	03/17/22	
p,m-Xylene	ND	0.0500	1	03/17/22	03/17/22	
Total Xylenes	ND	0.0250	1	03/17/22	03/17/22	
Surrogate: 4-Bromochlorobenzene-PID		*94.2 %*	*70-130*	*03/17/22*	*03/17/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2212064
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/17/22	03/17/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.1 %*	*70-130*	*03/17/22*	*03/17/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2212067
Diesel Range Organics (C10-C28)	ND	25.0	1	03/17/22	03/17/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/17/22	03/17/22	
Surrogate: n-Nonane		*94.2 %*	*50-200*	*03/17/22*	*03/17/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2212066
Chloride	**830**	400	20	03/17/22	03/17/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynn Acosta	3/17/2022 5:34:21PM

SW 1

E203100-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2212064
Benzene	ND	0.0250	1	03/17/22	03/17/22	
Ethylbenzene	ND	0.0250	1	03/17/22	03/17/22	
Toluene	ND	0.0250	1	03/17/22	03/17/22	
o-Xylene	ND	0.0250	1	03/17/22	03/17/22	
p,m-Xylene	ND	0.0500	1	03/17/22	03/17/22	
Total Xylenes	ND	0.0250	1	03/17/22	03/17/22	
Surrogate: 4-Bromochlorobenzene-PID		*94.3 %*	*70-130*	*03/17/22*	*03/17/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2212064
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/17/22	03/17/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.4 %*	*70-130*	*03/17/22*	*03/17/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2212067
Diesel Range Organics (C10-C28)	ND	25.0	1	03/17/22	03/17/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/17/22	03/17/22	
Surrogate: n-Nonane		*106 %*	*50-200*	*03/17/22*	*03/17/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2212066
Chloride	**1930**	200	10	03/17/22	03/17/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynn Acosta	3/17/2022 5:34:21PM

SW 2

E203100-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2212064
Benzene	ND	0.0250	1	03/17/22	03/17/22	
Ethylbenzene	ND	0.0250	1	03/17/22	03/17/22	
Toluene	ND	0.0250	1	03/17/22	03/17/22	
o-Xylene	ND	0.0250	1	03/17/22	03/17/22	
p,m-Xylene	ND	0.0500	1	03/17/22	03/17/22	
Total Xylenes	ND	0.0250	1	03/17/22	03/17/22	
Surrogate: 4-Bromochlorobenzene-PID		*92.9 %*	*70-130*	*03/17/22*	*03/17/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2212064
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/17/22	03/17/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*100 %*	*70-130*	*03/17/22*	*03/17/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2212067
Diesel Range Organics (C10-C28)	ND	25.0	1	03/17/22	03/17/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/17/22	03/17/22	
Surrogate: n-Nonane		*122 %*	*50-200*	*03/17/22*	*03/17/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2212066
Chloride	**1690**	400	20	03/17/22	03/17/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynn Acosta	3/17/2022 5:34:21PM

SW 3

E203100-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2212064
Benzene	ND	0.0250	1	03/17/22	03/17/22	
Ethylbenzene	ND	0.0250	1	03/17/22	03/17/22	
Toluene	ND	0.0250	1	03/17/22	03/17/22	
o-Xylene	ND	0.0250	1	03/17/22	03/17/22	
p,m-Xylene	ND	0.0500	1	03/17/22	03/17/22	
Total Xylenes	ND	0.0250	1	03/17/22	03/17/22	
Surrogate: 4-Bromochlorobenzene-PID		*92.5 %*	*70-130*	*03/17/22*	*03/17/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2212064
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/17/22	03/17/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*99.7 %*	*70-130*	*03/17/22*	*03/17/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2212067
Diesel Range Organics (C10-C28)	ND	25.0	1	03/17/22	03/17/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/17/22	03/17/22	
Surrogate: n-Nonane		*112 %*	*50-200*	*03/17/22*	*03/17/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2212066
Chloride	**2510**	400	20	03/17/22	03/17/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynn Acosta	3/17/2022 5:34:21PM

SW 4

E203100-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2212064
Benzene	ND	0.0250	1	03/17/22	03/17/22	
Ethylbenzene	ND	0.0250	1	03/17/22	03/17/22	
Toluene	ND	0.0250	1	03/17/22	03/17/22	
o-Xylene	ND	0.0250	1	03/17/22	03/17/22	
p,m-Xylene	ND	0.0500	1	03/17/22	03/17/22	
Total Xylenes	ND	0.0250	1	03/17/22	03/17/22	
Surrogate: 4-Bromochlorobenzene-PID		*92.6 %*	*70-130*	*03/17/22*	*03/17/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2212064
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/17/22	03/17/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*99.2 %*	*70-130*	*03/17/22*	*03/17/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2212067
Diesel Range Organics (C10-C28)	ND	25.0	1	03/17/22	03/17/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/17/22	03/17/22	
Surrogate: n-Nonane		*116 %*	*50-200*	*03/17/22*	*03/17/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2212066
Chloride	**2610**	400	20	03/17/22	03/17/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynn Acosta	3/17/2022 5:34:21PM

SW 5

E203100-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2212064
Benzene	ND	0.0250	1	03/17/22	03/17/22	
Ethylbenzene	ND	0.0250	1	03/17/22	03/17/22	
Toluene	ND	0.0250	1	03/17/22	03/17/22	
o-Xylene	ND	0.0250	1	03/17/22	03/17/22	
p,m-Xylene	ND	0.0500	1	03/17/22	03/17/22	
Total Xylenes	ND	0.0250	1	03/17/22	03/17/22	
Surrogate: 4-Bromochlorobenzene-PID		*92.9 %*	*70-130*	*03/17/22*	*03/17/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2212064
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/17/22	03/17/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*99.3 %*	*70-130*	*03/17/22*	*03/17/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2212067
Diesel Range Organics (C10-C28)	ND	25.0	1	03/17/22	03/17/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/17/22	03/17/22	
Surrogate: n-Nonane		*115 %*	*50-200*	*03/17/22*	*03/17/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2212066
Chloride	**1920**	200	10	03/17/22	03/17/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynn Acosta	3/17/2022 5:34:21PM

SW 6

E203100-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2212064
Benzene	ND	0.0250	1	03/17/22	03/17/22	
Ethylbenzene	ND	0.0250	1	03/17/22	03/17/22	
Toluene	ND	0.0250	1	03/17/22	03/17/22	
o-Xylene	ND	0.0250	1	03/17/22	03/17/22	
p,m-Xylene	ND	0.0500	1	03/17/22	03/17/22	
Total Xylenes	ND	0.0250	1	03/17/22	03/17/22	
Surrogate: 4-Bromochlorobenzene-PID		*92.8 %*	*70-130*	*03/17/22*	*03/17/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2212064
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/17/22	03/17/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*99.7 %*	*70-130*	*03/17/22*	*03/17/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2212067
Diesel Range Organics (C10-C28)	ND	25.0	1	03/17/22	03/17/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/17/22	03/17/22	
Surrogate: n-Nonane		*112 %*	*50-200*	*03/17/22*	*03/17/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2212066
Chloride	**1850**	200	10	03/17/22	03/17/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynn Acosta	3/17/2022 5:34:21PM

SW 7

E203100-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2212064
Benzene	ND	0.0250	1	03/17/22	03/17/22	
Ethylbenzene	ND	0.0250	1	03/17/22	03/17/22	
Toluene	ND	0.0250	1	03/17/22	03/17/22	
o-Xylene	ND	0.0250	1	03/17/22	03/17/22	
p,m-Xylene	ND	0.0500	1	03/17/22	03/17/22	
Total Xylenes	ND	0.0250	1	03/17/22	03/17/22	
Surrogate: 4-Bromochlorobenzene-PID		*92.4 %*	*70-130*	*03/17/22*	*03/17/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2212064
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/17/22	03/17/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*99.5 %*	*70-130*	*03/17/22*	*03/17/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2212067
Diesel Range Organics (C10-C28)	ND	25.0	1	03/17/22	03/17/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/17/22	03/17/22	
Surrogate: n-Nonane		*107 %*	*50-200*	*03/17/22*	*03/17/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2212066
Chloride	**1640**	400	20	03/17/22	03/17/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynn Acosta	3/17/2022 5:34:21PM

SW 8

E203100-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2212064
Benzene	ND	0.0250	1	03/17/22	03/17/22	
Ethylbenzene	ND	0.0250	1	03/17/22	03/17/22	
Toluene	ND	0.0250	1	03/17/22	03/17/22	
o-Xylene	ND	0.0250	1	03/17/22	03/17/22	
p,m-Xylene	ND	0.0500	1	03/17/22	03/17/22	
Total Xylenes	ND	0.0250	1	03/17/22	03/17/22	
Surrogate: 4-Bromochlorobenzene-PID		*94.2 %*	*70-130*	*03/17/22*	*03/17/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2212064
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/17/22	03/17/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.1 %*	*70-130*	*03/17/22*	*03/17/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2212067
Diesel Range Organics (C10-C28)	ND	25.0	1	03/17/22	03/17/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/17/22	03/17/22	
Surrogate: n-Nonane		*124 %*	*50-200*	*03/17/22*	*03/17/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2212066
Chloride	**1560**	400	20	03/17/22	03/17/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynn Acosta	3/17/2022 5:34:21PM

SW 9

E203100-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2212064
Benzene	ND	0.0250	1	03/17/22	03/17/22	
Ethylbenzene	ND	0.0250	1	03/17/22	03/17/22	
Toluene	ND	0.0250	1	03/17/22	03/17/22	
o-Xylene	ND	0.0250	1	03/17/22	03/17/22	
p,m-Xylene	ND	0.0500	1	03/17/22	03/17/22	
Total Xylenes	ND	0.0250	1	03/17/22	03/17/22	
Surrogate: 4-Bromochlorobenzene-PID		*93.5 %*	*70-130*	*03/17/22*	*03/17/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2212064
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/17/22	03/17/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.5 %*	*70-130*	*03/17/22*	*03/17/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2212067
Diesel Range Organics (C10-C28)	ND	25.0	1	03/17/22	03/17/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/17/22	03/17/22	
Surrogate: n-Nonane		*124 %*	*50-200*	*03/17/22*	*03/17/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2212066
Chloride	**1660**	200	10	03/17/22	03/17/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynn Acosta	3/17/2022 5:34:21PM

SW 10

E203100-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2212064
Benzene	ND	0.0250	1	03/17/22	03/17/22	
Ethylbenzene	ND	0.0250	1	03/17/22	03/17/22	
Toluene	ND	0.0250	1	03/17/22	03/17/22	
o-Xylene	ND	0.0250	1	03/17/22	03/17/22	
p,m-Xylene	ND	0.0500	1	03/17/22	03/17/22	
Total Xylenes	ND	0.0250	1	03/17/22	03/17/22	
Surrogate: 4-Bromochlorobenzene-PID		*94.8 %*	*70-130*	*03/17/22*	*03/17/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2212064
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/17/22	03/17/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.2 %*	*70-130*	*03/17/22*	*03/17/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2212067
Diesel Range Organics (C10-C28)	ND	25.0	1	03/17/22	03/17/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/17/22	03/17/22	
Surrogate: n-Nonane		*126 %*	*50-200*	*03/17/22*	*03/17/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2212066
Chloride	**1600**	100	5	03/17/22	03/17/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynn Acosta	3/17/2022 5:34:21PM

SW 11

E203100-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2212064
Benzene	ND	0.0250	1	03/17/22	03/17/22	
Ethylbenzene	ND	0.0250	1	03/17/22	03/17/22	
Toluene	ND	0.0250	1	03/17/22	03/17/22	
o-Xylene	ND	0.0250	1	03/17/22	03/17/22	
p,m-Xylene	ND	0.0500	1	03/17/22	03/17/22	
Total Xylenes	ND	0.0250	1	03/17/22	03/17/22	
Surrogate: 4-Bromochlorobenzene-PID		*94.1 %*	*70-130*	*03/17/22*	*03/17/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2212064
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/17/22	03/17/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.6 %*	*70-130*	*03/17/22*	*03/17/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2212067
Diesel Range Organics (C10-C28)	ND	25.0	1	03/17/22	03/17/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/17/22	03/17/22	
Surrogate: n-Nonane		*127 %*	*50-200*	*03/17/22*	*03/17/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2212066
Chloride	**1470**	100	5	03/17/22	03/17/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynn Acosta	3/17/2022 5:34:21PM

SW 12

E203100-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2212064
Benzene	ND	0.0250	1	03/17/22	03/17/22	
Ethylbenzene	ND	0.0250	1	03/17/22	03/17/22	
Toluene	ND	0.0250	1	03/17/22	03/17/22	
o-Xylene	ND	0.0250	1	03/17/22	03/17/22	
p,m-Xylene	ND	0.0500	1	03/17/22	03/17/22	
Total Xylenes	ND	0.0250	1	03/17/22	03/17/22	
Surrogate: 4-Bromochlorobenzene-PID		*95.2 %*	*70-130*	*03/17/22*	*03/17/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2212064
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/17/22	03/17/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.4 %*	*70-130*	*03/17/22*	*03/17/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2212067
Diesel Range Organics (C10-C28)	ND	25.0	1	03/17/22	03/17/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/17/22	03/17/22	
Surrogate: n-Nonane		*135 %*	*50-200*	*03/17/22*	*03/17/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2212066
Chloride	**1450**	200	10	03/17/22	03/17/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynn Acosta	3/17/2022 5:34:21PM

SW 13

E203100-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2212061
Benzene	ND	0.0250	1	03/17/22	03/17/22	
Ethylbenzene	ND	0.0250	1	03/17/22	03/17/22	
Toluene	ND	0.0250	1	03/17/22	03/17/22	
o-Xylene	ND	0.0250	1	03/17/22	03/17/22	
p,m-Xylene	ND	0.0500	1	03/17/22	03/17/22	
Total Xylenes	ND	0.0250	1	03/17/22	03/17/22	
Surrogate: Bromofluorobenzene		*94.2 %*	*70-130*	*03/17/22*	*03/17/22*	
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*70-130*	*03/17/22*	*03/17/22*	
Surrogate: Toluene-d8		*97.5 %*	*70-130*	*03/17/22*	*03/17/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2212061
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/17/22	03/17/22	
Surrogate: Bromofluorobenzene		*94.2 %*	*70-130*	*03/17/22*	*03/17/22*	
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*70-130*	*03/17/22*	*03/17/22*	
Surrogate: Toluene-d8		*97.5 %*	*70-130*	*03/17/22*	*03/17/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2212067
Diesel Range Organics (C10-C28)	ND	25.0	1	03/17/22	03/17/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/17/22	03/17/22	
Surrogate: n-Nonane		*146 %*	*50-200*	*03/17/22*	*03/17/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2212066
Chloride	**1570**	400	20	03/17/22	03/17/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynn Acosta	3/17/2022 5:34:21PM

SW 14

E203100-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2212061
Benzene	ND	0.0250	1	03/17/22	03/17/22	
Ethylbenzene	ND	0.0250	1	03/17/22	03/17/22	
Toluene	ND	0.0250	1	03/17/22	03/17/22	
o-Xylene	ND	0.0250	1	03/17/22	03/17/22	
p,m-Xylene	ND	0.0500	1	03/17/22	03/17/22	
Total Xylenes	ND	0.0250	1	03/17/22	03/17/22	
Surrogate: Bromofluorobenzene		*95.0 %*	*70-130*	*03/17/22*	*03/17/22*	
Surrogate: 1,2-Dichloroethane-d4		*97.1 %*	*70-130*	*03/17/22*	*03/17/22*	
Surrogate: Toluene-d8		*99.8 %*	*70-130*	*03/17/22*	*03/17/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2212061
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/17/22	03/17/22	
Surrogate: Bromofluorobenzene		*95.0 %*	*70-130*	*03/17/22*	*03/17/22*	
Surrogate: 1,2-Dichloroethane-d4		*97.1 %*	*70-130*	*03/17/22*	*03/17/22*	
Surrogate: Toluene-d8		*99.8 %*	*70-130*	*03/17/22*	*03/17/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2212067
Diesel Range Organics (C10-C28)	ND	25.0	1	03/17/22	03/17/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/17/22	03/17/22	
Surrogate: n-Nonane		*136 %*	*50-200*	*03/17/22*	*03/17/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2212066
Chloride	**1350**	100	5	03/17/22	03/17/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynn Acosta	3/17/2022 5:34:21PM

SW 15

E203100-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2212061
Benzene	ND	0.0250	1	03/17/22	03/17/22	
Ethylbenzene	ND	0.0250	1	03/17/22	03/17/22	
Toluene	ND	0.0250	1	03/17/22	03/17/22	
o-Xylene	ND	0.0250	1	03/17/22	03/17/22	
p,m-Xylene	ND	0.0500	1	03/17/22	03/17/22	
Total Xylenes	ND	0.0250	1	03/17/22	03/17/22	
Surrogate: Bromofluorobenzene		*93.8 %*	*70-130*	*03/17/22*	*03/17/22*	
Surrogate: 1,2-Dichloroethane-d4		*98.7 %*	*70-130*	*03/17/22*	*03/17/22*	
Surrogate: Toluene-d8		*98.3 %*	*70-130*	*03/17/22*	*03/17/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2212061
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/17/22	03/17/22	
Surrogate: Bromofluorobenzene		*93.8 %*	*70-130*	*03/17/22*	*03/17/22*	
Surrogate: 1,2-Dichloroethane-d4		*98.7 %*	*70-130*	*03/17/22*	*03/17/22*	
Surrogate: Toluene-d8		*98.3 %*	*70-130*	*03/17/22*	*03/17/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2212067
Diesel Range Organics (C10-C28)	ND	25.0	1	03/17/22	03/17/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/17/22	03/17/22	
Surrogate: n-Nonane		*136 %*	*50-200*	*03/17/22*	*03/17/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2212066
Chloride	**1960**	100	5	03/17/22	03/17/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynn Acosta	3/17/2022 5:34:21PM

SW 16

E203100-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2212061
Benzene	ND	0.0250	1	03/17/22	03/17/22	
Ethylbenzene	ND	0.0250	1	03/17/22	03/17/22	
Toluene	ND	0.0250	1	03/17/22	03/17/22	
o-Xylene	ND	0.0250	1	03/17/22	03/17/22	
p,m-Xylene	ND	0.0500	1	03/17/22	03/17/22	
Total Xylenes	ND	0.0250	1	03/17/22	03/17/22	
Surrogate: Bromofluorobenzene		*95.0 %*	*70-130*	*03/17/22*	*03/17/22*	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-130*	*03/17/22*	*03/17/22*	
Surrogate: Toluene-d8		*97.8 %*	*70-130*	*03/17/22*	*03/17/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2212061
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/17/22	03/17/22	
Surrogate: Bromofluorobenzene		*95.0 %*	*70-130*	*03/17/22*	*03/17/22*	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-130*	*03/17/22*	*03/17/22*	
Surrogate: Toluene-d8		*97.8 %*	*70-130*	*03/17/22*	*03/17/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2212067
Diesel Range Organics (C10-C28)	ND	25.0	1	03/17/22	03/17/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/17/22	03/17/22	
Surrogate: n-Nonane		*137 %*	*50-200*	*03/17/22*	*03/17/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2212066
Chloride	**1800**	100	5	03/17/22	03/17/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynn Acosta	3/17/2022 5:34:21PM

SW 17

E203100-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2212061
Benzene	ND	0.0250	1	03/17/22	03/17/22	
Ethylbenzene	ND	0.0250	1	03/17/22	03/17/22	
Toluene	ND	0.0250	1	03/17/22	03/17/22	
o-Xylene	ND	0.0250	1	03/17/22	03/17/22	
p,m-Xylene	ND	0.0500	1	03/17/22	03/17/22	
Total Xylenes	ND	0.0250	1	03/17/22	03/17/22	
Surrogate: Bromofluorobenzene		*95.0 %*	*70-130*	*03/17/22*	*03/17/22*	
Surrogate: 1,2-Dichloroethane-d4		*99.2 %*	*70-130*	*03/17/22*	*03/17/22*	
Surrogate: Toluene-d8		*99.8 %*	*70-130*	*03/17/22*	*03/17/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2212061
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/17/22	03/17/22	
Surrogate: Bromofluorobenzene		*95.0 %*	*70-130*	*03/17/22*	*03/17/22*	
Surrogate: 1,2-Dichloroethane-d4		*99.2 %*	*70-130*	*03/17/22*	*03/17/22*	
Surrogate: Toluene-d8		*99.8 %*	*70-130*	*03/17/22*	*03/17/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2212067
Diesel Range Organics (C10-C28)	ND	25.0	1	03/17/22	03/17/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/17/22	03/17/22	
Surrogate: n-Nonane		*113 %*	*50-200*	*03/17/22*	*03/17/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2212066
Chloride	**1620**	100	5	03/17/22	03/17/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynn Acosta	3/17/2022 5:34:21PM

SW 18

E203100-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2212061
Benzene	ND	0.0250	1	03/17/22	03/17/22	
Ethylbenzene	ND	0.0250	1	03/17/22	03/17/22	
Toluene	ND	0.0250	1	03/17/22	03/17/22	
o-Xylene	ND	0.0250	1	03/17/22	03/17/22	
p,m-Xylene	ND	0.0500	1	03/17/22	03/17/22	
Total Xylenes	ND	0.0250	1	03/17/22	03/17/22	
Surrogate: Bromofluorobenzene		*95.3 %*	*70-130*	*03/17/22*	*03/17/22*	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-130*	*03/17/22*	*03/17/22*	
Surrogate: Toluene-d8		*98.5 %*	*70-130*	*03/17/22*	*03/17/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2212061
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/17/22	03/17/22	
Surrogate: Bromofluorobenzene		*95.3 %*	*70-130*	*03/17/22*	*03/17/22*	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-130*	*03/17/22*	*03/17/22*	
Surrogate: Toluene-d8		*98.5 %*	*70-130*	*03/17/22*	*03/17/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2212051
Diesel Range Organics (C10-C28)	ND	25.0	1	03/17/22	03/17/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/17/22	03/17/22	
Surrogate: n-Nonane		*105 %*	*50-200*	*03/17/22*	*03/17/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2212065
Chloride	**1530**	100	5	03/17/22	03/17/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynn Acosta	3/17/2022 5:34:21PM

SW 19

E203100-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2212061
Benzene	ND	0.0250	1	03/17/22	03/17/22	
Ethylbenzene	ND	0.0250	1	03/17/22	03/17/22	
Toluene	ND	0.0250	1	03/17/22	03/17/22	
o-Xylene	ND	0.0250	1	03/17/22	03/17/22	
p,m-Xylene	ND	0.0500	1	03/17/22	03/17/22	
Total Xylenes	ND	0.0250	1	03/17/22	03/17/22	
Surrogate: Bromofluorobenzene		*96.9 %*	*70-130*	*03/17/22*	*03/17/22*	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*70-130*	*03/17/22*	*03/17/22*	
Surrogate: Toluene-d8		*99.0 %*	*70-130*	*03/17/22*	*03/17/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2212061
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/17/22	03/17/22	
Surrogate: Bromofluorobenzene		*96.9 %*	*70-130*	*03/17/22*	*03/17/22*	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*70-130*	*03/17/22*	*03/17/22*	
Surrogate: Toluene-d8		*99.0 %*	*70-130*	*03/17/22*	*03/17/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2212051
Diesel Range Organics (C10-C28)	ND	25.0	1	03/17/22	03/17/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/17/22	03/17/22	
Surrogate: n-Nonane		*107 %*	*50-200*	*03/17/22*	*03/17/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2212065
Chloride	**1190**	100	5	03/17/22	03/17/22	

QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	**Reported:**
201 S Halagueno St.	Project Number:	19026-0001	
Carlsbad NM, 88220	Project Manager:	Lynn Acosta	3/17/2022 5:34:21PM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2212061-BLK1)									Prepared: 03/16/22 Analyzed: 03/17/22
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	*0.460*		*0.500*		*91.9*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.520*		*0.500*		*104*	*70-130*			
Surrogate: Toluene-d8	*0.499*		*0.500*		*99.7*	*70-130*			
LCS (2212061-BS1)									Prepared: 03/16/22 Analyzed: 03/17/22
Benzene	2.68	0.0250	2.50		107	70-130			
Ethylbenzene	2.80	0.0250	2.50		112	70-130			
Toluene	2.82	0.0250	2.50		113	70-130			
o-Xylene	2.69	0.0250	2.50		108	70-130			
p,m-Xylene	5.38	0.0500	5.00		108	70-130			
Total Xylenes	8.07	0.0250	7.50		108	70-130			
Surrogate: Bromofluorobenzene	*0.479*		*0.500*		*95.7*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.502*		*0.500*		*100*	*70-130*			
Surrogate: Toluene-d8	*0.525*		*0.500*		*105*	*70-130*			
LCS Dup (2212061-BSD1)									Prepared: 03/16/22 Analyzed: 03/17/22
Benzene	2.55	0.0250	2.50		102	70-130	4.99	23	
Ethylbenzene	2.64	0.0250	2.50		106	70-130	5.95	27	
Toluene	2.64	0.0250	2.50		105	70-130	6.73	24	
o-Xylene	2.53	0.0250	2.50		101	70-130	6.20	27	
p,m-Xylene	5.07	0.0500	5.00		101	70-130	5.83	27	
Total Xylenes	7.60	0.0250	7.50		101	70-130	5.95	27	
Surrogate: Bromofluorobenzene	*0.484*		*0.500*		*96.8*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.516*		*0.500*		*103*	*70-130*			
Surrogate: Toluene-d8	*0.514*		*0.500*		*103*	*70-130*			

QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	**Reported:**
201 S Halagueno St.	Project Number:	19026-0001	
Carlsbad NM, 88220	Project Manager:	Lynn Acosta	3/17/2022 5:34:21PM

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2212064-BLK1)									Prepared: 03/16/22 Analyzed: 03/17/22
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*7.72*		*8.00*		*96.5*	*70-130*			
LCS (2212064-BS1)									Prepared: 03/16/22 Analyzed: 03/17/22
Benzene	4.82	0.0250	5.00		96.5	70-130			
Ethylbenzene	5.13	0.0250	5.00		103	70-130			
Toluene	5.31	0.0250	5.00		106	70-130			
o-Xylene	5.10	0.0250	5.00		102	70-130			
p,m-Xylene	10.4	0.0500	10.0		104	70-130			
Total Xylenes	15.5	0.0250	15.0		103	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.78*		*8.00*		*97.3*	*70-130*			
LCS Dup (2212064-BSD1)									Prepared: 03/16/22 Analyzed: 03/17/22
Benzene	4.77	0.0250	5.00		95.4	70-130	1.09	20	
Ethylbenzene	5.11	0.0250	5.00		102	70-130	0.328	20	
Toluene	5.29	0.0250	5.00		106	70-130	0.422	20	
o-Xylene	5.08	0.0250	5.00		102	70-130	0.386	20	
p,m-Xylene	10.4	0.0500	10.0		104	70-130	0.228	20	
Total Xylenes	15.5	0.0250	15.0		103	70-130	0.280	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.75*		*8.00*		*96.8*	*70-130*			

QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	**Reported:**
201 S Halagueno St.	Project Number:	19026-0001	
Carlsbad NM, 88220	Project Manager:	Lynn Acosta	3/17/2022 5:34:21PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2212061-BLK1)									Prepared: 03/16/22 Analyzed: 03/17/22
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	*0.460*		*0.500*		*91.9*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.520*		*0.500*		*104*	*70-130*			
Surrogate: Toluene-d8	*0.499*		*0.500*		*99.7*	*70-130*			
LCS (2212061-BS2)									Prepared: 03/16/22 Analyzed: 03/17/22
Gasoline Range Organics (C6-C10)	58.7	20.0	50.0		117	70-130			
Surrogate: Bromofluorobenzene	*0.466*		*0.500*		*93.2*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.493*		*0.500*		*98.6*	*70-130*			
Surrogate: Toluene-d8	*0.527*		*0.500*		*105*	*70-130*			
LCS Dup (2212061-BSD2)									Prepared: 03/16/22 Analyzed: 03/17/22
Gasoline Range Organics (C6-C10)	59.2	20.0	50.0		118	70-130	0.765	20	
Surrogate: Bromofluorobenzene	*0.469*		*0.500*		*93.8*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.500*		*0.500*		*99.9*	*70-130*			
Surrogate: Toluene-d8	*0.515*		*0.500*		*103*	*70-130*			

QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	**Reported:**
201 S Halagueno St.	Project Number:	19026-0001	
Carlsbad NM, 88220	Project Manager:	Lynn Acosta	3/17/2022 5:34:21PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2212064-BLK1)									Prepared: 03/16/22 Analyzed: 03/17/22
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.67*		*8.00*		*95.9*	*70-130*			
LCS (2212064-BS2)									Prepared: 03/16/22 Analyzed: 03/17/22
Gasoline Range Organics (C6-C10)	47.9	20.0	50.0		95.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.63*		*8.00*		*95.4*	*70-130*			
LCS Dup (2212064-BSD2)									Prepared: 03/16/22 Analyzed: 03/17/22
Gasoline Range Organics (C6-C10)	48.0	20.0	50.0		95.9	70-130	0.232	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.71*		*8.00*		*96.4*	*70-130*			

QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	**Reported:**
201 S Halagueno St.	Project Number:	19026-0001	
Carlsbad NM, 88220	Project Manager:	Lynn Acosta	3/17/2022 5:34:21PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2212051-BLK1)									Prepared: 03/16/22 Analyzed: 03/16/22
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*54.3*		*50.0*		*109*	*50-200*			
LCS (2212051-BS1)									Prepared: 03/16/22 Analyzed: 03/16/22
Diesel Range Organics (C10-C28)	507	25.0	500		101	38-132			
Surrogate: n-Nonane	*53.2*		*50.0*		*106*	*50-200*			
Matrix Spike (2212051-MS1)				**Source: E203078-08**					Prepared: 03/16/22 Analyzed: 03/16/22
Diesel Range Organics (C10-C28)	525	25.0	500	ND	105	38-132			
Surrogate: n-Nonane	*58.2*		*50.0*		*116*	*50-200*			
Matrix Spike Dup (2212051-MSD1)				**Source: E203078-08**					Prepared: 03/16/22 Analyzed: 03/16/22
Diesel Range Organics (C10-C28)	510	25.0	500	ND	102	38-132	2.78	20	
Surrogate: n-Nonane	*56.8*		*50.0*		*114*	*50-200*			

QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	**Reported:**
201 S Halagueno St.	Project Number:	19026-0001	
Carlsbad NM, 88220	Project Manager:	Lynn Acosta	3/17/2022 5:34:21PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2212067-BLK1)									Prepared: 03/17/22 Analyzed: 03/17/22
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*47.9*		*50.0*		*95.8*	*50-200*			
LCS (2212067-BS1)									Prepared: 03/17/22 Analyzed: 03/17/22
Diesel Range Organics (C10-C28)	450	25.0	500		90.1	38-132			
Surrogate: n-Nonane	*47.8*		*50.0*		*95.6*	*50-200*			
Matrix Spike (2212067-MS1)				**Source: E203100-08**					Prepared: 03/17/22 Analyzed: 03/17/22
Diesel Range Organics (C10-C28)	457	25.0	500	ND	91.4	38-132			
Surrogate: n-Nonane	*49.7*		*50.0*		*99.4*	*50-200*			
Matrix Spike Dup (2212067-MSD1)				**Source: E203100-08**					Prepared: 03/17/22 Analyzed: 03/17/22
Diesel Range Organics (C10-C28)	462	25.0	500	ND	92.3	38-132	1.06	20	
Surrogate: n-Nonane	*43.6*		*50.0*		*87.2*	*50-200*			

QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	**Reported:**
201 S Halagueno St.	Project Number:	19026-0001	
Carlsbad NM, 88220	Project Manager:	Lynn Acosta	3/17/2022 5:34:21PM

Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2212065-BLK1)									Prepared: 03/17/22 Analyzed: 03/17/22
Chloride	ND	20.0							
LCS (2212065-BS1)									Prepared: 03/17/22 Analyzed: 03/17/22
Chloride	252	20.0	250		101	90-110			
LCS Dup (2212065-BSD1)									Prepared: 03/17/22 Analyzed: 03/17/22
Chloride	250	20.0	250		100	90-110	0.838	20	

QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	**Reported:**
201 S Halagueno St.	Project Number:	19026-0001	
Carlsbad NM, 88220	Project Manager:	Lynn Acosta	3/17/2022 5:34:21PM

Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2212066-BLK1)									Prepared: 03/17/22 Analyzed: 03/17/22
Chloride	ND	20.0							
LCS (2212066-BS1)									Prepared: 03/17/22 Analyzed: 03/17/22
Chloride	250	20.0	250		100	90-110			
LCS Dup (2212066-BSD1)									Prepared: 03/17/22 Analyzed: 03/17/22
Chloride	250	20.0	250		100	90-110	0.0496	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Definitions and Notes

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynn Acosta	03/17/22 17:34

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Project Information

Chain of Custody

24-hour

Client: Marathon
Project: Gravel Grinder
Project Manager:
Address:
City, State, Zip
Phone:
Email:
Report due by:

Bill To
Attention: SM/A Carlsbad
Address:
City, State, Zip
Phone:
Email:

Lab Use Only
Lab WO# PE203100
Job Number 19026-0001

TAT: 1D X, 3D

EPA Program: RCRA, CWA, SDWA

State: NM, CO, UT, AZ, TX, OK

Analysis and Method: DRO/ORO by 8015; GRO/DRO by 8015; BTEX by 8021; VOC by 8260; Metals 6010; Chloride 300.0; BGDOC - NM; BGDOC - TX

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	Remarks
	3/16/22	Soil		SG 38	1	
				SG 39	2	
				SG 40	3	
				SW 1	4	
				SW 2	5	
				SW 3	6	
				SW 4	7	
				SW 5	8	
				SW 6	9	
				SW 7	10	

Additional Instructions:

, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	3/16/22	1552		3-16-22	1552
Relinquished by: (Signature)	3-16-22	1630	Received by: (Signature) Courtlin Chatman	3/17/22	8:30
Relinquished by: (Signature)			Received by: (Signature)		

Lab Use Only
Received on ice: Y / N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

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Project Information | Chain of Custody | Page 2 of 3

24-hour

Client: Marathon
Project: Gravel Grinder
Project Manager:
Address:
City, State, Zip
Phone:
Email:
Report due by:

Bill To
Attention: SMA Carlsbad
Address:
City, State, Zip
Phone:
Email:

Lab Use Only: Lab WO# PE203100 | Job Number 19026-0001
TAT: 1D X | 3D
EPA Program: RCRA | CWA | SDWA
State: NM | CO | UT | AZ | TX | OK

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC - NM	BGDOC - TX	Remarks
	3/16/22	Soil		SW 8	11									
				SW 9	12									
				SW 10	13									
				SW 11	14									
				SW 12	15									
				SW 13	16									
				SW 14	17									
				SW 15	18									
				SW 16	19									
				SW 17	20									

Additional Instructions:
~~SW 8~~ 4H 3/16/22

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	3/16/22	1552		3-16-22	1552
	3-16-22	1630	Courtney Clayton	3/17/22	8:30

Lab Use Only
Received on ice: Y / N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

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Project Information

Chain of Custody

24-hour

Client: Marathon
Project: Gravel Grinder
Project Manager:
Address:
City, State, Zip
Phone:
Email:
Report due by:

Bill To
Attention: SMA Carlsbad
Address:
City, State, Zip
Phone:
Email:

Lab Use Only
Lab WO# PE203100
Job Number 19026-0001

TAT: 1D X, 3D

EPA Program: RCRA, CWA, SDWA

State: NM, CO, UT, AZ, TX, OK

Analysis and Method: DRO/ORO by 8015; GRO/DRO by 8015; BTEX by 8021; VOC by 8260; Metals 6010; Chloride 300.0; BGDOC - NM; BGDOC - TX

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	Remarks
	3/16/22	Soil		SW 18	21	
	"	"		SW 19	22	

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	3/16/22	1552 ~~1552~~		3-16-22	1582 PP
	3-16-22	1630	Courtney Clinton	3/17/22	8:30

Lab Use Only
Received on ice: (Y) / N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

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Envirotech Analytical Laboratory

Printed: 3/17/2022 8:40:16AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Souder Miller Associates - Carlsbad	Date Received:	03/17/22 08:30	Work Order ID:	E203100
Phone:	(575) 200-5443	Date Logged In:	03/16/22 16:21	Logged In By:	Alexa Michaels
Email:	lynn.acosta@soudermiller.com	Due Date:	03/17/22 17:00 (0 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courrier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	No	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
15. Are VOC samples collected in VOA Vials?	NA	
16. Is the head space less than 6-8 mm (pea sized or less)?	NA	
17. Was a trip blank (TB) included for VOC analyses?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
19. Is the appropriate volume/weight or number of sample containers collected?	Yes	

Field Label

20. Were field sample labels filled out with the minimum information:		
Sample ID?	Yes	
Date/Time Collected?	No	
Collectors name?	No	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
24. Is lab filteration required and/or requested for dissolved metals?	No	

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No	
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA	

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Comments/Resolution

Time sampled, no. containers and project manager not provided on coc

Client Instruction

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

Date

envirotech Inc.

Project Information

Chain of Custody

24-hour

Client: ~~Marathon~~ SMA 3/17/22CC
Project: Gravel Grinder
Project Manager:
Address:
City, State, Zip
Phone:
Email:
Report due by:

Bill To
Attention: SMA Carlsbad
Address:
City, State, Zip
Phone:
Email:

Lab Use Only
Lab WO# E203100
Job Number 19026-0001

TAT: 1D X, 3D

EPA Program: RCRA, CWA, SDWA

State: NM, CO, UT, AZ, TX, OK

Analysis and Method: DRO/ORO by 8015; GRO/DRO by 8015; BTEX by 8021; VOC by 8260; Metals 6010; Chloride 300.0; BGDOC - NM; BGDOC - Tx

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	Remarks
	3/16/22	Soil		SG 38	1	
				SG 39	2	
				SG 40	3	
				SW 1	4	
				SW 2	5	
				SW 3	6	
				SW 4	7	
				SW 5	8	
				SW 6	9	
				SW 7	10	

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	3/16/22	1552		3-16-22	1552
	3-16-22	1630		3/17/22	8:30

Lab Use Only
Received on ice: Y / N
T1 T2 T3
AVG Temp °C 4

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

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Project Information | Chain of Custody | Page 2 of 3

24-hour

Client: ~~Marathon~~ SMA 3/17/22 CC	Bill To
Project: Gravel Grinder	Attention: SMA Carlsbad
Project Manager:	Address:
Address:	City, State, Zip
City, State, Zip	Phone:
Phone:	Email:
Email:	
Report due by:	

Lab Use Only		TAT		EPA Program		
Lab WO#	Job Number	1D	3D	RCRA	CWA	SDWA
PF203100	19026-0001	X				

State: NM | CO | UT | AZ | TX | OK

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC - NM	BGDOC - Tx	Remarks
	3/16/22	Soil		SW 8	11									
				SW 9	12									
				SW 10	13									
				SW 11	14									
				SW 12	15									
				SW 13	16									
				SW 14	17									
				SW 15	18									
				SW 16	19									
				SW 17	20									

Additional Instructions:

~~SW 8~~ 3/16/22

, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	3/16/22	1552		3-16-22	1552
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	3-16-22	1630		3/17/22	8:30
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Lab Use Only
Received on ice: Y / N
T1 T2 T3
AVG Temp °C 4

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

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Project Information

Chain of Custody

24-hour

Client: ~~Macathon~~ SMA 3/17/22 CC
Project: Gravel Grinder
Project Manager:
Address:
City, State, Zip
Phone:
Email:
Report due by:

Bill To
Attention: SMA Carlsbad
Address:
City, State, Zip
Phone:
Email:

Lab Use Only
Lab WO# PE203100
Job Number 19026-0001

TAT: 1D X, 3D

EPA Program: RCRA, CWA, SDWA

State: NM, CO, UT, AZ, TX, OK

Analysis and Method: DRO/ORO by 8015; GRO/DRO by 8015; BTEX by 8021; VOC by 8260; Metals 6010; Chloride 300.0; BGDOC - NM; BGDOC - TX

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	Remarks
	3/16/22	Soil		SW 18	21	
	1	1		SW 19	22	

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	3/16/22	1552 ~~1552~~		3-16-22	1582 PP
	3-16-22	1630		3/17/22	8:30

Lab Use Only
Received on ice: Y / N
T1 T2 T3
AVG Temp °C 4

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

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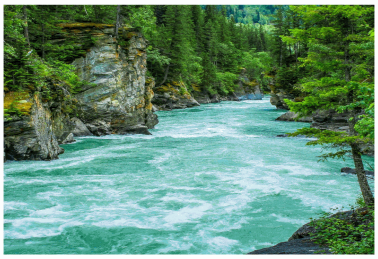
Report to:

Lynn Acosta



5796 U.S. Hwy 64
Farmington, NM 87401

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

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Souder Miller Associates - Carlsbad

Project Name:	Gravel Grinder
Work Order:	E203101
Job Number:	19026-0001
Received:	3/17/2022

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/17/22

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.
Envirotech Inc, holds the NM SDWA certification for data reported. (Lab #NM00979)

Date Reported: 3/17/22

Lynn Acosta
201 S Halagueno St.
Carlsbad, NM 88220

Project Name: Gravel Grinder
Workorder: E203101
Date Received: 3/17/2022 8:30:00AM

Lynn Acosta,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/17/2022 8:30:00AM, under the Project Name: Gravel Grinder.

The analytical test results summarized in this report with the Project Name: Gravel Grinder apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Alexa Michaels
Sample Custody Officer
Office: 505-632-1881
labadmin@envirotech-inc.com

Field Offices:

Southern New Mexico Area
Lynn Jarboe
Technical Representative/Client Services
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljarboe@envirotech-inc.com

West Texas Midland/Odessa Area
Rayny Hagan
Technical Representative
Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Sample Summary

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	**Reported:**
201 S Halagueno St.	Project Number:	19026-0001	
Carlsbad NM, 88220	Project Manager:	Lynn Acosta	03/17/22 17:30

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BG - 1'	E203101-01A	Soil	03/16/22	03/17/22	Glass Jar, 4 oz.

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynn Acosta	3/17/2022 5:30:05PM

BG - 1'

E203101-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2212065
Chloride	**1210**	200	10	03/17/22	03/17/22	

QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	**Reported:**
201 S Halagueno St.	Project Number:	19026-0001	
Carlsbad NM, 88220	Project Manager:	Lynn Acosta	3/17/2022 5:30:05PM

Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2212065-BLK1)									Prepared: 03/17/22 Analyzed: 03/17/22
Chloride	ND	20.0							
LCS (2212065-BS1)									Prepared: 03/17/22 Analyzed: 03/17/22
Chloride	252	20.0	250		101	90-110			
LCS Dup (2212065-BSD1)									Prepared: 03/17/22 Analyzed: 03/17/22
Chloride	250	20.0	250		100	90-110	0.838	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Definitions and Notes

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynn Acosta	03/17/22 17:30

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Project Information

Chain of Custody

Client: Marathon
Project: Gravel Grinder
Project Manager:
Address:
City, State, Zip
Phone:
Email:
Report due by:

Bill To
Attention: SMA Cardinal
Address:
City, State, Zip
Phone:
Email:

Lab Use Only
Lab WO# PE203101
Job Number 19026-00001

TAT: 1D | 3D

EPA Program: RCRA | CWA | SDWA

State: NM | CO | UT | AZ | TX | OK

Analysis and Method

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC - NM	BGDOC - TX			Remarks
	3/16/22	Soil		BG-1'	1									X				

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	3/16/22	1552		3-16-22	15:52
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	3-16-22		Caitlin Christian	3/17/22	8:30
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Lab Use Only
Received on ice: Y / N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

envirotech

Envirotech Analytical Laboratory

Printed: 3/17/2022 8:46:20AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Souder Miller Associates - Carlsbad	Date Received:	03/17/22 08:30	Work Order ID:	E203101
Phone:	(575) 200-5443	Date Logged In:	03/16/22 16:26	Logged In By:	Caitlin Christian
Email:	lynn.acosta@soudermiller.com	Due Date:	03/17/22 17:00 (0 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Carrier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	No	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	No	

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	Yes	
11. If yes, were custody/security seals intact?	No	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	No	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
15. Are VOC samples collected in VOA Vials?	NA	
16. Is the head space less than 6-8 mm (pea sized or less)?	NA	
17. Was a trip blank (TB) included for VOC analyses?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
19. Is the appropriate volume/weight or number of sample containers collected?	Yes	

Field Label

20. Were field sample labels filled out with the minimum information:		
Sample ID?	Yes	
Date/Time Collected?	No	
Collectors name?	No	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
24. Is lab filteration required and/or requested for dissolved metals?	No	

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No	
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA	

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: na

Comments/Resolution

Time sampled, no containers and project manager not provided on coc,

Client Instruction

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

Date

envirotech Inc.

Project Information

Chain of Custody

Client: Marathon SMA 3/17/22 CC
Project: Gravel Grinder
Project Manager:
Address:
City, State, Zip
Phone:
Email:
Report due by:

Bill To
Attention: SMA Cudshed
Address:
City, State, Zip
Phone:
Email:

Lab Use Only
Lab WO# E203101
Job Number 19026-0001

TAT: 1D | 3D
EPA Program: RCRA | CWA | SDWA
State: NM | CO | UT | AZ | TX | OK

Analysis and Method

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC-NM	BGDOC-Tx	Remarks
	3/16/22	Soil		BG-1'	1						X	X		Per Lynn Acosta 3/17/22 CC

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	3/16/22	1552		3-16-22	15:52
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	3-16-22			3/17/22	8:30
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Lab Use Only
Received on ice: Y / N
T1 T2 T3
AVG Temp °C 4

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

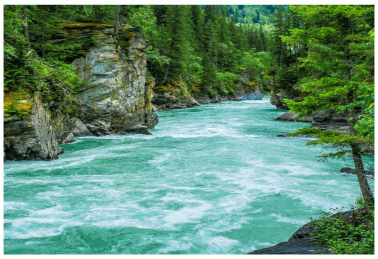
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

envirotech

Report to:

Lynn Acosta



5796 U.S. Hwy 64
Farmington, NM 87401

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

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Practical Solutions for a Better Tomorrow

Analytical Report

Souder Miller Associates - Carlsbad

Project Name:	Gravel Grinder
Work Order:	E203102
Job Number:	19026-0001
Received:	3/17/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/17/22

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
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Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.
Envirotech Inc, holds the NM SDWA certification for data reported. (Lab #NM00979)

Date Reported: 3/17/22

Lynn Acosta
201 S Halagueno St.
Carlsbad, NM 88220

Project Name: Gravel Grinder
Workorder: E203102
Date Received: 3/17/2022 8:30:00AM

Lynn Acosta,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/17/2022 8:30:00AM, under the Project Name: Gravel Grinder.

The analytical test results summarized in this report with the Project Name: Gravel Grinder apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Alexa Michaels
Sample Custody Officer
Office: 505-632-1881
labadmin@envirotech-inc.com

Field Offices:

Southern New Mexico Area
Lynn Jarboe
Technical Representative/Client Services
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljarboe@envirotech-inc.com

West Texas Midland/Odessa Area
Rayny Hagan
Technical Representative
Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Sample Summary

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	**Reported:**
201 S Halagueno St.	Project Number:	19026-0001	
Carlsbad NM, 88220	Project Manager:	Lynn Acosta	03/17/22 17:03

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BG0	E203102-01A	Soil	03/16/22	03/17/22	Glass Jar, 4 oz.

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynn Acosta	3/17/2022 5:03:41PM

BG0

E203102-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2212065
Chloride	**425**	40.0	2	03/17/22	03/17/22	

QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	**Reported:**
201 S Halagueno St.	Project Number:	19026-0001	
Carlsbad NM, 88220	Project Manager:	Lynn Acosta	3/17/2022 5:03:41PM

Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2212065-BLK1)									Prepared: 03/17/22 Analyzed: 03/17/22
Chloride	ND	20.0							
LCS (2212065-BS1)									Prepared: 03/17/22 Analyzed: 03/17/22
Chloride	252	20.0	250		101	90-110			
LCS Dup (2212065-BSD1)									Prepared: 03/17/22 Analyzed: 03/17/22
Chloride	250	20.0	250		100	90-110	0.838	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Definitions and Notes

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynn Acosta	03/17/22 17:03

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Project Information

Chain of Custody

Page 1 of 1

24-hour

Client: Marathon	Bill To
Project: Gravel Grinder	Attention: SMA Carlsbad
Project Manager:	Address:
Address:	City, State, Zip
City, State, Zip	Phone:
Phone:	Email:
Email:	
Report due by:	

Lab Use Only: Lab WO# PE203102 | Job Number 190026-0001

TAT: 1D X | 3D

EPA Program: RCRA | CWA | SDWA

State: NM | CO | UT | AZ | TX | OK

Analysis and Method: DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | BGDOC - NM | BGDOC - TX

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	Remarks
	3/16/22	Soil		BG0	1	

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	3/16/22	1552		3-16-22	15:52
Relinquished by: (Signature)	3-16-22		Caitlin Chatin	3/17/22	8:30
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Lab Use Only

Received on ice: Y / N

T1 T2 T3

AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

envirotech

Envirotech Analytical Laboratory

Printed: 3/17/2022 8:50:20AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Souder Miller Associates - Carlsbad	Date Received:	03/17/22 08:30	Work Order ID:	E203102
Phone:	(575) 200-5443	Date Logged In:	03/16/22 16:28	Logged In By:	Caitlin Christian
Email:	lynn.acosta@soudermiller.com	Due Date:	03/17/22 17:00 (0 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Carrier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	No	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
15. Are VOC samples collected in VOA Vials?	NA	
16. Is the head space less than 6-8 mm (pea sized or less)?	NA	
17. Was a trip blank (TB) included for VOC analyses?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
19. Is the appropriate volume/weight or number of sample containers collected?	Yes	

Field Label

20. Were field sample labels filled out with the minimum information:		
Sample ID?	Yes	
Date/Time Collected?	No	
Collectors name?	No	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
24. Is lab filteration required and/or requested for dissolved metals?	No	

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No	
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA	

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: na

Comments/Resolution

Time Sampled, no containers and project manager provided on coc.

Client Instruction

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

Date

envirotech Inc.

Project Information

Chain of Custody

Page 1 of 1

24-hour

Client: ~~Marathon~~ SMA 3/17/22 CC	Bill To
Project: Gravel Grinder	Attention: SMA Coalshed
Project Manager:	Address:
Address:	City, State, Zip
City, State, Zip	Phone:
Phone:	Email:
Email:	
Report due by:	

Lab Use Only		TAT		EPA Program		
Lab WO#	Job Number	1D	3D	RCRA	CWA	SDWA
PE203102	190126-0001	X				

State			
NM	CO	UT	AZ
TX	OK		

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			~~BGDOC - NM~~	BGDOC - TX			Remarks
	3/16/22	Soil		BG-0	1						X			X				Per Lynn Acosta 3/17/22 CC

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	3/16/22	1552		3-16-22 PD	15:52 PD
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	3-16-22			3/17/22	8:30
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days

Lab Use Only

Received on ice: Y / N

T1 T2 T3

AVG Temp °C 4

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

envirotech

Report to:

Lynn Acosta

5796 U.S. Hwy 64
Farmington, NM 87401

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

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Souder Miller Associates - Carlsbad

Project Name:	Gravel Grinder
Work Order:	E203103
Job Number:	19026-0001
Received:	3/17/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/17/22

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
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Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.
Envirotech Inc, holds the NM SDWA certification for data reported. (Lab #NM00979)

Date Reported: 3/17/22

Lynn Acosta
201 S Halagueno St.
Carlsbad, NM 88220

Project Name: Gravel Grinder
Workorder: E203103
Date Received: 3/17/2022 8:30:00AM

Lynn Acosta,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/17/2022 8:30:00AM, under the Project Name: Gravel Grinder.

The analytical test results summarized in this report with the Project Name: Gravel Grinder apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Alexa Michaels
Sample Custody Officer
Office: 505-632-1881
labadmin@envirotech-inc.com

Field Offices:

Southern New Mexico Area
Lynn Jarboe
Technical Representative/Client Services
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljarboe@envirotech-inc.com

West Texas Midland/Odessa Area
Rayny Hagan
Technical Representative
Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Sample Summary

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	**Reported:**
201 S Halagueno St.	Project Number:	19026-0001	
Carlsbad NM, 88220	Project Manager:	Lynn Acosta	03/17/22 17:05

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BG - 3'	E203103-01A	Soil	03/16/22	03/17/22	Glass Jar, 4 oz.

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynn Acosta	3/17/2022 5:05:01PM

BG - 3'

E203103-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2212065
Chloride	**2270**	400	20	03/17/22	03/17/22	

QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	**Reported:**
201 S Halagueno St.	Project Number:	19026-0001	
Carlsbad NM, 88220	Project Manager:	Lynn Acosta	3/17/2022 5:05:01PM

Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2212065-BLK1)									Prepared: 03/17/22 Analyzed: 03/17/22
Chloride	ND	20.0							
LCS (2212065-BS1)									Prepared: 03/17/22 Analyzed: 03/17/22
Chloride	252	20.0	250		101	90-110			
LCS Dup (2212065-BSD1)									Prepared: 03/17/22 Analyzed: 03/17/22
Chloride	250	20.0	250		100	90-110	0.838	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Definitions and Notes

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynn Acosta	03/17/22 17:05

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Project Information

Chain of Custody

Page 1 of 1

24-Hour

Client: Marathon
Project: Gravel Grinder
Project Manager:
Address:
City, State, Zip
Phone:
Email:
Report due by:

Bill To
Attention: SMA Carlsbad
Address:
City, State, Zip
Phone:
Email:

Lab Use Only
Lab WO# PE203103
Job Number 19026-0001

TAT: 1D X, 3D

EPA Program: RCRA, CWA, SDWA

State: NM, CO, UT, AZ, TX, OK

Analysis and Method: DRO/ORO by 8015; GRO/DRO by 8015; BTEX by 8021; VOC by 8260; Metals 6010; Chloride 300.0; BGDOC - NM; BGDOC - TX

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC - NM	BGDOC - TX	Remarks
	3/16/22	Soil		BG-3'	1							X		

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	3/16/22	1552		3-16-22	15:52
	3/16/22	16:30	Courtney Clayton	3/17/22	8:30

Lab Use Only
Received on ice: (Y) / N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

envirotech

Envirotech Analytical Laboratory

Printed: 3/17/2022 8:53:03AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Souder Miller Associates - Carlsbad	Date Received:	03/17/22 08:30	Work Order ID:	E203103
Phone:	(575) 200-5443	Date Logged In:	03/16/22 16:33	Logged In By:	Caitlin Christian
Email:	lynn.acosta@soudermiller.com	Due Date:	03/17/22 17:00 (0 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Carrier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	No	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
15. Are VOC samples collected in VOA Vials?	NA	
16. Is the head space less than 6-8 mm (pea sized or less)?	NA	
17. Was a trip blank (TB) included for VOC analyses?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
19. Is the appropriate volume/weight or number of sample containers collected?	Yes	

Field Label

20. Were field sample labels filled out with the minimum information:		
Sample ID?	Yes	
Date/Time Collected?	No	
Collectors name?	No	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
24. Is lab filteration required and/or requested for dissolved metals?	No	

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No	
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA	

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: na

Comments/Resolution

Time sampled, no containers and project manager not provided on coc.

Client Instruction

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

Date

envirotech Inc.

Project Information

Chain of Custody

Page 1 of 1

24-Hour

Client: ~~Marathon~~ SMA 3/17/22 CC	Bill To
Project: Gravel Grinder	Attention: SMA Carlsbad
Project Manager:	Address:
Address:	City, State, Zip
City, State, Zip	Phone:
Phone:	Email:
Email:	
Report due by:	

Lab Use Only		TAT		EPA Program		
Lab WO#	Job Number	1D	3D	RCRA	CWA	SDWA
PE203103	190260-0001	x				

State			
NM	CO	UT	AZ
TX	OK		

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			~~BGDOC - NM~~	BGDOC - TX			Remarks
	3/16/22	Soil		BG-3'	1						X			X				Per Lynn Acosta 3/17/22 CC

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	3/16/22	1552		3-16-22	15:52
	3/16/22	16:30	Courtney Clayton	3/17/22	8:30

Lab Use Only

Received on ice: Y / N

T1 T2 T3

AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

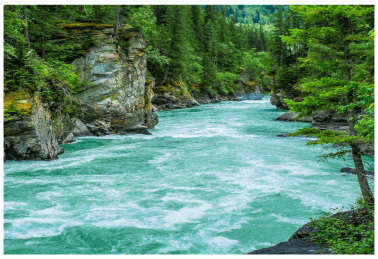
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

envirotech

Report to:

Lynn Acosta



5796 U.S. Hwy 64
Farmington, NM 87401

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

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Souder Miller Associates - Carlsbad

Project Name:	Gravel Grinder
Work Order:	E203105
Job Number:	19026-0001
Received:	3/17/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/17/22

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.
Envirotech Inc, holds the NM SDWA certification for data reported. (Lab #NM00979)

Date Reported: 3/17/22

Lynn Acosta
201 S Halagueno St.
Carlsbad, NM 88220

Project Name: Gravel Grinder
Workorder: E203105
Date Received: 3/17/2022 8:30:00AM

Lynn Acosta,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/17/2022 8:30:00AM, under the Project Name: Gravel Grinder.

The analytical test results summarized in this report with the Project Name: Gravel Grinder apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Alexa Michaels
Sample Custody Officer
Office: 505-632-1881
labadmin@envirotech-inc.com

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Technical Representative/Client Services
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljarboe@envirotech-inc.com

West Texas Midland/Odessa Area
Rayny Hagan
Technical Representative
Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Sample Summary

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	**Reported:**
201 S Halagueno St.	Project Number:	19026-0001	
Carlsbad NM, 88220	Project Manager:	Lynn Acosta	03/17/22 17:07

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BG - 2'	E203105-01A	Soil	03/16/22	03/17/22	Glass Jar, 4 oz.

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynn Acosta	3/17/2022 5:07:05PM

BG - 2'

E203105-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2212065
Chloride	**2350**	400	20	03/17/22	03/17/22	

QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	**Reported:**
201 S Halagueno St.	Project Number:	19026-0001	
Carlsbad NM, 88220	Project Manager:	Lynn Acosta	3/17/2022 5:07:05PM

Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2212065-BLK1)									Prepared: 03/17/22 Analyzed: 03/17/22
Chloride	ND	20.0							
LCS (2212065-BS1)									Prepared: 03/17/22 Analyzed: 03/17/22
Chloride	252	20.0	250		101	90-110			
LCS Dup (2212065-BSD1)									Prepared: 03/17/22 Analyzed: 03/17/22
Chloride	250	20.0	250		100	90-110	0.838	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Definitions and Notes

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Lynn Acosta	03/17/22 17:07

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Project Information

Chain of Custody

Page 1 of 1

Client:	SMA
Project:	Gravel Grinder
Project Manager:	
Address:	
City, State, Zip	
Phone:	
Email:	
Report due by:	

Bill To

Attention:	SMA Carlsbad
Address:	
City, State, Zip	
Phone:	
Email:	

Lab Use Only

Lab WO#	Job Number
E203105	19026-0001

TAT

1D	2D	3D	Standard
X			

EPA Program

CWA	SDWA	RCRA

State

NM	CO	UT	AZ	TX	

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	Remarks
	3/16/22	Soil		BG-2'	1						X	Per Lynn Acosta 3/17/22 CC

Analysis and Method

Additional Instructions: CC: Lynn Acosta, Ashley Maxwell, Mel Sanjari

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, d may be grounds for legal action. Sampled by:

[redacted]

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	3/17/22	11:24	Cartha Chatin	3/17/22	8:30
	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Lab Use Only

Received on ice: (Y) / N

T1 T2 T3

AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

envirotech

Envirotech Analytical Laboratory

Printed: 3/17/2022 4:57:32PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Souder Miller Associates - Carlsbad	Date Received:	03/17/22 08:30	Work Order ID:	E203105
Phone:	(575) 200-5443	Date Logged In:	03/17/22 07:49	Logged In By:	Caitlin Christian
Email:	lynn.acosta@soudermiller.com	Due Date:	03/17/22 17:00 (0 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Carrier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	No	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
15. Are VOC samples collected in VOA Vials?	NA	
16. Is the head space less than 6-8 mm (pea sized or less)?	NA	
17. Was a trip blank (TB) included for VOC analyses?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
19. Is the appropriate volume/weight or number of sample containers collected?	Yes	

Field Label

20. Were field sample labels filled out with the minimum information:		
Sample ID?	Yes	
Date/Time Collected?	No	
Collectors name?	No	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
24. Is lab filteration required and/or requested for dissolved metals?	No	

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No	
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA	

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: na

Comments/Resolution

Time sampled, no containers and project manager not provided on coc.

Client Instruction

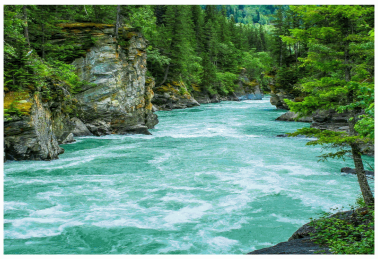
Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Melodie Sanjari



5796 U.S. Hwy 64
Farmington, NM 87401

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

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Souder Miller Associates - Carlsbad

Project Name:	Gravel Grinder
Work Order:	E203119
Job Number:	19026-0001
Received:	3/21/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/22/22

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.
Envirotech Inc, holds the NM SDWA certification for data reported. (Lab #NM00979)

Date Reported: 3/22/22

Melodie Sanjari
201 S Halagueno St.
Carlsbad, NM 88220

Project Name: Gravel Grinder
Workorder: E203119
Date Received: 3/21/2022 7:40:00AM

Melodie Sanjari,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/21/2022 7:40:00AM, under the Project Name: Gravel Grinder.

The analytical test results summarized in this report with the Project Name: Gravel Grinder apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Alexa Michaels
Sample Custody Officer
Office: 505-632-1881
labadmin@envirotech-inc.com

Field Offices:

Southern New Mexico Area
Lynn Jarboe
Technical Representative/Client Services
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljarboe@envirotech-inc.com

West Texas Midland/Odessa Area
Rayny Hagan
Technical Representative
Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Sample Summary

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	**Reported:**
201 S Halagueno St.	Project Number:	19026-0001	
Carlsbad NM, 88220	Project Manager:	Melodie Sanjari	03/22/22 15:56

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BG2 - 0	E203119-01A	Soil	03/18/22	03/21/22	Glass Jar, 4 oz.

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Melodie Sanjari	3/22/2022 3:56:24PM

BG2 - 0

E203119-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL			Batch: 2213005
Chloride	**1750**	200	10	03/21/22	03/21/22	

QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	**Reported:**
201 S Halagueno St.	Project Number:	19026-0001	
Carlsbad NM, 88220	Project Manager:	Melodie Sanjari	3/22/2022 3:56:24PM

Anions by EPA 300.0/9056A

Analyst: KL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2213005-BLK1)									Prepared: 03/21/22 Analyzed: 03/21/22
Chloride	ND	20.0							
LCS (2213005-BS1)									Prepared: 03/21/22 Analyzed: 03/21/22
Chloride	252	20.0	250		101	90-110			
LCS Dup (2213005-BSD1)									Prepared: 03/21/22 Analyzed: 03/21/22
Chloride	255	20.0	250		102	90-110	1.22	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Definitions and Notes

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Melodie Sanjari	03/22/22 15:56

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Project Information | Chain of Custody | Page 1 of 1

Client:	Marathon /SMA
Project:	Gravel Grinder
Project Manager:	Mel
Address:	
City, State, Zip	
Phone:	
Email:	
Report due by:	

Bill To

Attention:	SMA Carlsbad
Address:	
City, State, Zip	
Phone:	
Email:	

Lab Use Only

Lab WO#	Job Number
E203119	19026-0001

TAT

1D	2D	3D	Standard
X			

EPA Program

CWA	SDWA	RCRA

State

NM	CO	UT	AZ	TX	
X					

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC - NM	BGDOC - TX			Remarks
	3/18/22	Soil	1	BG2-0	1						X							

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	3/18/22	1540		3.18.22	1540
	3.20.22	1205	Courtney Clarke	3/21/22	7:40

Lab Use Only

Received on ice: (Y) / N

T1 T2 T3

AVG Temp °C 4

Sample Matrix: **S** - Soil, **Sd** - Solid, **Sg** - Sludge, **A** - Aqueous, **O** - Other

Container Type: **g** - glass, **p** - poly/plastic, **ag** - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

envirotech

Envirotech Analytical Laboratory

Printed: 3/21/2022 8:32:00AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Souder Miller Associates - Carlsbad	Date Received:	03/21/22 07:40	Work Order ID:	E203119
Phone:	(575) 200-5443	Date Logged In:	03/21/22 07:48	Logged In By:	Caitlin Christian
Email:		Due Date:	03/21/22 17:00 (0 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Carrier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	No	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
15. Are VOC samples collected in VOA Vials?	NA	
16. Is the head space less than 6-8 mm (pea sized or less)?	NA	
17. Was a trip blank (TB) included for VOC analyses?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
19. Is the appropriate volume/weight or number of sample containers collected?	Yes	

Field Label

20. Were field sample labels filled out with the minimum information:		
Sample ID?	Yes	
Date/Time Collected?	No	
Collectors name?	No	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
24. Is lab filteration required and/or requested for dissolved metals?	No	

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No	
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA	

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Comments/Resolution

Sampled time not provided on the coc.

Client Instruction

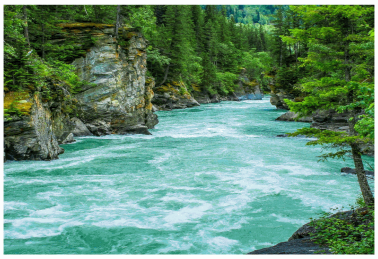
Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Melodie Sanjari



5796 U.S. Hwy 64
Farmington, NM 87401

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

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Souder Miller Associates - Carlsbad

Project Name:	Gravel Grinder
Work Order:	E203120
Job Number:	19026-0001
Received:	3/21/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/22/22

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.
Envirotech Inc, holds the NM SDWA certification for data reported. (Lab #NM00979)

Date Reported: 3/22/22

Melodie Sanjari
201 S Halagueno St.
Carlsbad, NM 88220

Project Name: Gravel Grinder
Workorder: E203120
Date Received: 3/21/2022 7:40:00AM

Melodie Sanjari,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/21/2022 7:40:00AM, under the Project Name: Gravel Grinder.

The analytical test results summarized in this report with the Project Name: Gravel Grinder apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Alexa Michaels
Sample Custody Officer
Office: 505-632-1881
labadmin@envirotech-inc.com

Field Offices:

Southern New Mexico Area
Lynn Jarboe
Technical Representative/Client Services
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljarboe@envirotech-inc.com

West Texas Midland/Odessa Area
Rayny Hagan
Technical Representative
Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Sample Summary

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	**Reported:**
201 S Halagueno St.	Project Number:	19026-0001	
Carlsbad NM, 88220	Project Manager:	Melodie Sanjari	03/22/22 15:57

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BG2 - 1'	E203120-01A	Soil	03/18/22	03/21/22	Glass Jar, 4 oz.

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Melodie Sanjari	3/22/2022 3:57:45PM

BG2 - 1'

E203120-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL			Batch: 2213005
Chloride	**3310**	400	20	03/21/22	03/21/22	

QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	**Reported:**
201 S Halagueno St.	Project Number:	19026-0001	
Carlsbad NM, 88220	Project Manager:	Melodie Sanjari	3/22/2022 3:57:45PM

Anions by EPA 300.0/9056A

Analyst: KL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2213005-BLK1)									Prepared: 03/21/22 Analyzed: 03/21/22
Chloride	ND	20.0							
LCS (2213005-BS1)									Prepared: 03/21/22 Analyzed: 03/21/22
Chloride	252	20.0	250		101	90-110			
LCS Dup (2213005-BSD1)									Prepared: 03/21/22 Analyzed: 03/21/22
Chloride	255	20.0	250		102	90-110	1.22	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Definitions and Notes

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Melodie Sanjari	03/22/22 15:57

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Project Information | Chain of Custody | Page 1 of 1

Client:	Marathon / SMA
Project:	Grimes Gathcer
Project Manager:	Mel
Address:	
City, State, Zip	
Phone:	
Email:	
Report due by:	

Bill To

Attention:	SMA Carlsbad
Address:	
City, State, Zip	
Phone:	
Email:	

Lab Use Only

Lab WO#	Job Number
E203120	19026-0001

TAT

1D	2D	3D	Standard
X			

EPA Program

CWA	SDWA	RCRA

State

NM	CO	UT	AZ	TX	
X					

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC - NM	BGDOC - TX			Remarks
	3/18/22	soil	1	BG2-1'	1						X							

Analysis and Method

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	3/18/22	1540		3.18.22	1540
	3.20.22	1805	Caitlin Christian	3/21/22	7:40

Lab Use Only

Received on ice: Y / N

T1 T2 T3

AVG Temp °C 4

Sample Matrix: **S** - Soil, **Sd** - Solid, **Sg** - Sludge, **A** - Aqueous, **O** - Other

Container Type: **g** - glass, **p** - poly/plastic, **ag** - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

envirotech

Envirotech Analytical Laboratory

Printed: 3/21/2022 8:37:50AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Souder Miller Associates - Carlsbad	Date Received:	03/21/22 07:40	Work Order ID:	E203120
Phone:	(575) 200-5443	Date Logged In:	03/21/22 07:49	Logged In By:	Caitlin Christian
Email:		Due Date:	03/21/22 17:00 (0 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Carrier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	No	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
15. Are VOC samples collected in VOA Vials?	NA	
16. Is the head space less than 6-8 mm (pea sized or less)?	NA	
17. Was a trip blank (TB) included for VOC analyses?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
19. Is the appropriate volume/weight or number of sample containers collected?	Yes	

Field Label

20. Were field sample labels filled out with the minimum information:		
Sample ID?	Yes	
Date/Time Collected?	No	
Collectors name?	No	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
24. Is lab filteration required and/or requested for dissolved metals?	No	

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No	
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA	

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: na

Comments/Resolution

Sample time not provided on the coc.

Client Instruction

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

Date

envirotech Inc.

Report to:

Melodie Sanjari

5796 U.S. Hwy 64
Farmington, NM 87401

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

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Souder Miller Associates - Carlsbad

Project Name:	Gravel Grinder
Work Order:	E203121
Job Number:	19026-0001
Received:	3/21/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/22/22

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.
Envirotech Inc, holds the NM SDWA certification for data reported. (Lab #NM00979)

Date Reported: 3/22/22

Melodie Sanjari
201 S Halagueno St.
Carlsbad, NM 88220

Project Name: Gravel Grinder
Workorder: E203121
Date Received: 3/21/2022 7:40:00AM

Melodie Sanjari,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/21/2022 7:40:00AM, under the Project Name: Gravel Grinder.

The analytical test results summarized in this report with the Project Name: Gravel Grinder apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Alexa Michaels
Sample Custody Officer
Office: 505-632-1881
labadmin@envirotech-inc.com

Field Offices:

Southern New Mexico Area
Lynn Jarboe
Technical Representative/Client Services
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljarboe@envirotech-inc.com

West Texas Midland/Odessa Area
Rayny Hagan
Technical Representative
Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Sample Summary

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	**Reported:**
201 S Halagueno St.	Project Number:	19026-0001	
Carlsbad NM, 88220	Project Manager:	Melodie Sanjari	03/22/22 15:59

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BG2 - 3'	E203121-01A	Soil	03/18/22	03/21/22	Glass Jar, 4 oz.

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Melodie Sanjari	3/22/2022 3:59:39PM

BG2 - 3'

E203121-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL			Batch: 2213005
Chloride	**2480**	200	10	03/21/22	03/21/22	

QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	**Reported:**
201 S Halagueno St.	Project Number:	19026-0001	
Carlsbad NM, 88220	Project Manager:	Melodie Sanjari	3/22/2022 3:59:39PM

Anions by EPA 300.0/9056A

Analyst: KL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2213005-BLK1)									Prepared: 03/21/22 Analyzed: 03/21/22
Chloride	ND	20.0							
LCS (2213005-BS1)									Prepared: 03/21/22 Analyzed: 03/21/22
Chloride	252	20.0	250		101	90-110			
LCS Dup (2213005-BSD1)									Prepared: 03/21/22 Analyzed: 03/21/22
Chloride	255	20.0	250		102	90-110	1.22	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Definitions and Notes

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Melodie Sanjari	03/22/22 15:59

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Project Information | Chain of Custody | Page 1 of 1

Client:	Marathon (SMA)
Project:	Grand Cypress
Project Manager:	Mel
Address:	
City, State, Zip	
Phone:	
Email:	
Report due by:	

Bill To

Attention:	SMA - Calstad
Address:	
City, State, Zip	
Phone:	
Email:	

Lab Use Only		TAT				EPA Program	
Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA
E203121	19026-0001	X					
							RCRA
						State	
						NM	CO UT AZ TX
						X	

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC - NM	BGDOC - TX			Remarks
	3/16/22	Soil	1	BG2 - 3'	1						X							

Analysis and Method

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	3/18/22	1540		3.18.22	1540
	3.20.22	1205	Caitlin Christian	3/21/22	7:40

Lab Use Only

Received on ice: (Y) / N

T1 T2 T3

AVG Temp °C 4

Sample Matrix: **S** - Soil, **Sd** - Solid, **Sg** - Sludge, **A** - Aqueous, **O** - Other

Container Type: **g** - glass, **p** - poly/plastic, **ag** - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

envirotech

Envirotech Analytical Laboratory

Printed: 3/21/2022 8:39:43AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Souder Miller Associates - Carlsbad	Date Received:	03/21/22 07:40	Work Order ID:	E203121
Phone:	(575) 200-5443	Date Logged In:	03/21/22 07:51	Logged In By:	Caitlin Christian
Email:		Due Date:	03/21/22 17:00 (0 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Carrier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	No	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
15. Are VOC samples collected in VOA Vials?	NA	
16. Is the head space less than 6-8 mm (pea sized or less)?	NA	
17. Was a trip blank (TB) included for VOC analyses?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
19. Is the appropriate volume/weight or number of sample containers collected?	Yes	

Field Label

20. Were field sample labels filled out with the minimum information:		
Sample ID?	Yes	
Date/Time Collected?	No	
Collectors name?	No	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
24. Is lab filteration required and/or requested for dissolved metals?	No	

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No	
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA	

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: na

Comments/Resolution

Sample time not provided on the coc.

Client Instruction

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

Date

envirotech Inc.

Report to:

Melodie Sanjari

5796 U.S. Hwy 64
Farmington, NM 87401

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

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Souder Miller Associates - Carlsbad

Project Name:	Gravel Grinder
Work Order:	E203122
Job Number:	19026-0001
Received:	3/21/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/22/22

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.
Envirotech Inc, holds the NM SDWA certification for data reported. (Lab #NM00979)

Date Reported: 3/22/22

Melodie Sanjari
201 S Halagueno St.
Carlsbad, NM 88220

Project Name: Gravel Grinder
Workorder: E203122
Date Received: 3/21/2022 7:40:00AM

Melodie Sanjari,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/21/2022 7:40:00AM, under the Project Name: Gravel Grinder.

The analytical test results summarized in this report with the Project Name: Gravel Grinder apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Alexa Michaels
Sample Custody Officer
Office: 505-632-1881
labadmin@envirotech-inc.com

Field Offices:

Southern New Mexico Area
Lynn Jarboe
Technical Representative/Client Services
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljarboe@envirotech-inc.com

West Texas Midland/Odessa Area
Rayny Hagan
Technical Representative
Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Sample Summary

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	**Reported:**
201 S Halagueno St.	Project Number:	19026-0001	
Carlsbad NM, 88220	Project Manager:	Melodie Sanjari	03/22/22 16:01

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BG2 - 2'	E203122-01A	Soil	03/18/22	03/21/22	Glass Jar, 4 oz.

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Melodie Sanjari	3/22/2022 4:01:49PM

BG2 - 2'

E203122-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL			Batch: 2213005
Chloride	**1900**	400	20	03/21/22	03/21/22	

QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	**Reported:**
201 S Halagueno St.	Project Number:	19026-0001	
Carlsbad NM, 88220	Project Manager:	Melodie Sanjari	3/22/2022 4:01:49PM

Anions by EPA 300.0/9056A

Analyst: KL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2213005-BLK1)									Prepared: 03/21/22 Analyzed: 03/21/22
Chloride	ND	20.0							
LCS (2213005-BS1)									Prepared: 03/21/22 Analyzed: 03/21/22
Chloride	252	20.0	250		101	90-110			
LCS Dup (2213005-BSD1)									Prepared: 03/21/22 Analyzed: 03/21/22
Chloride	255	20.0	250		102	90-110	1.22	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Definitions and Notes

Souder Miller Associates - Carlsbad	Project Name:	Gravel Grinder	
201 S Halagueno St.	Project Number:	19026-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Melodie Sanjari	03/22/22 16:01

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Project Information | Chain of Custody | Page 1 of 1

Client:	Mewbourne / SMA	Bill To	
Project:	Grand Grande	Attention:	SMT - Carlsbad
Project Manager:	Mo	Address:	
Address:		City, State, Zip	
City, State, Zip		Phone:	
Phone:		Email:	
Email:			
Report due by:			

Lab Use Only		TAT				EPA Program	
Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA
E203122	19026-0001	X					
							RCRA

State: NM X | CO | UT | AZ | TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC - NM	BGDOC - TX			Remarks
	3/15/22	soil	1	BG2 - 0'	1						X							

Analysis and Method

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	3/18/22	1540		3.18.22	1540
	3.20.22	1205	Courtney Christian	3/21/22	7:40

Lab Use Only
Received on ice: (Y) / N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: **S** - Soil, **Sd** - Solid, **Sg** - Sludge, **A** - Aqueous, **O** - Other

Container Type: **g** - glass, **p** - poly/plastic, **ag** - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

envirotech

Envirotech Analytical Laboratory

Printed: 3/21/2022 8:44:02AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Souder Miller Associates - Carlsbad	Date Received:	03/21/22 07:40	Work Order ID:	E203122
Phone:	(575) 200-5443	Date Logged In:	03/21/22 07:53	Logged In By:	Caitlin Christian
Email:		Due Date:	03/21/22 17:00 (0 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Carrier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	No	
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Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
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11. If yes, were custody/security seals intact?	NA	
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Sample Container

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Field Label

20. Were field sample labels filled out with the minimum information:		
Sample ID?	Yes	
Date/Time Collected?	No	
Collectors name?	No	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
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Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No	
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA	

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: na

Comments/Resolution

Sample time not provided on coc

Client Instruction

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

Date

envirotech Inc.

APPENDIX E
OCD CORRESPONDENCE

Ashley Maxwell

From: Hensley, Chad, EMNRD <Chad.Hensley@state.nm.us>
Sent: Friday, March 11, 2022 11:40 AM
To: Ashley Maxwell; Sanjari, Melodie (MRO)
Cc: Lynn Acosta; Lynn Acosta
Subject: RE: [External] The Oil Conservation Division (OCD) has approved the application, Application ID: 69637

Good afternoon, Ashley,

Request for confirmation composite samples to exceed 500 sq/ft is denied. The OCD will accept floor confirmation composite samples not exceeding 500sq/ft.

NOTE: The OCD requires a copy of all correspondence relative to remedial projects be included in all proposal and/or final closure reports. Correspondence required to be included in reports may include, but not necessarily limited to, extension requests, liner inspection notifications, sample event notifications, spill/release/fire notifications, and variance requests. This will allow for notifications and requests to become a documented part of the incident file.

Cheers,

Chad Hensley ● Environmental Science & Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
811 First St. | Artesia, NM 88210
Office: 575.748.1283 | Cell: 575-703-1723
chad.hensley@state.nm.us
http://www.emnrd.state.nm.us/OCD/

From: Ashley Maxwell <ashley.maxwell@soudermiller.com>
Sent: Friday, March 11, 2022 11:06 AM
To: Hensley, Chad, EMNRD <Chad.Hensley@state.nm.us>; Sanjari, Melodie (MRO) <msanjari@marathonoil.com>; ocdonline, emnrd, EMNRD <EMNRD.OCDOnline@state.nm.us>
Cc: Lynn Acosta <lynn.acosta@soudermiller.com>; Lynn Acosta <lynn93acosta@gmail.com>
Subject: Re: [External] The Oil Conservation Division (OCD) has approved the application, Application ID: 69637

All,

Please advise on the variance request in the below email regarding sampling. The prevoius two weeks we have submitted a request for a determination.

SMA will be on site Monday, March 14, 2022 to begin excavation oversight. We anticipate to begin sample collection Tuesday, March 15, 2022 at 11:15am. Please consider this your 48-hour notification.

Thanks,
Ashley Maxwell

Sent via the Samsung Galaxy S10, an AT&T 5G Evolution capable smartphone
Get Outlook for Android

From: Ashley Maxwell
Sent: Monday, March 7, 2022 10:41:37 AM
To: Hensley, Chad, EMNRD <Chad.Hensley@state.nm.us>; Sanjari, Melodie (MRO) <msanjari@marathonoil.com>; ocdonline, emnrd, EMNRD <EMNRD.OCDOnline@state.nm.us>
Cc: Lynn Acosta <lynn.acosta@soudermiller.com>; Lynn Acosta <lynn93acosta@gmail.com>
Subject: RE: [External] The Oil Conservation Division (OCD) has approved the application, Application ID: 69637

Good Morning Chad,

I wanted to follow up to see if you have made a determination regarding the below variance request. We are moving forward with the planned dig and haul activities next week and would like to have everything finalized so that we can issue our 48-hour notification.

Thank you,
Ashley

SMA Since 1985
Stronger Communities by Design
www.soudermiller.com

Ashley Maxwell
Project Scientist

Direct/Mobile: 505.320.8975
Office: 505.325.7535

401 W. Broadway
Farmington, New Mexico 87401

From: Ashley Maxwell
Sent: Thursday, February 24, 2022 11:32 AM
To: Hensley, Chad, EMNRD <Chad.Hensley@state.nm.us>; Sanjari, Melodie (MRO) <msanjari@marathonoil.com>; ocdonline, emnrd, EMNRD <EMNRD.OCDOnline@state.nm.us>
Cc: Lynn Acosta <lynn.acosta@soudermiller.com>; Lynn Acosta <lynn93acosta@gmail.com>
Subject: RE: [External] The Oil Conservation Division (OCD) has approved the application, Application ID: 69637

Good Afternoon,

SMA and Marathon wanted to follow up and provide you an update on the progress of the project. Marathon will begin dig and haul activities with SMA oversight the week of March 14, 2022. SMA will provide a 48-hour notification for the collection of closure samples.

Upon reviewing the sample map attached in your previous email, a total of 9 base samples and 3 sidewall samples were collected during the initial denied closure activities. SMA would like to increase the number of samples collected following the dig and haul activities that will be conducted the week of March 14th. SMA is requesting a variance of 19.15.29.12(D)(1)(c) NMAC for conducting closure sampling for the base of the excavation. As written, to sample every 200ft^2 would require Marathon to collect in excess of 100 samples. With closure criteria for TPH set to not exceed 100ppm, SMA is requesting a variance to collect 5-point composite samples of the base of the excavation every 1,000 square feet. Theoretically, we would be looking at 25, five-point composite closure samples collected throughout the initial area marked for deferral. This will greatly increase the number of samples collected without causing overburden.

Sidewall samples will continue to be collected every 200 square feet. SMA also recognizes the OCD request to collect two background samples to determine the levels of naturally elevated chlorides.

Please feel free to contact me with additional questions.

SMA Since 1985
Stronger Communities by Design
www.soudermiller.com

Ashley Maxwell
Project Scientist

Direct/Mobile: 505.320.8975
Office: 505.325.7535

401 W. Broadway
Farmington, New Mexico 87401

From: Hensley, Chad, EMNRD <Chad.Hensley@state.nm.us>
Sent: Thursday, February 17, 2022 7:35 AM
To: Sanjari, Melodie (MRO) <msanjari@marathonoil.com>; ocdonline, emnrd, EMNRD <EMNRD.OCDOnline@state.nm.us>
Cc: Lynn Acosta <lynn.acosta@soudermiller.com>; Lynn Acosta <lynn93acosta@gmail.com>; Ashley Maxwell <ashley.maxwell@soudermiller.com>
Subject: RE: [External] The Oil Conservation Division (OCD) has approved the application, Application ID: 69637

Melodie,

When providing the closure report please provide a BG-2 and BG-3 grab sample for just chlorides. I will go by those samples yes for chlorides.

As for closure criteria I am agreeing with the SMA statement:
SMA is proposing the following work plan to target hydrocarbon contamination: • The hydrocarbon impacted area will be excavated to meet the NMOCD Table I closure standards for a depth to ground water of less than 50 feet below grade surface (bgs). Excavation activities will include the use of heavy equipment, hydrovac equipment, and manual tools.

Please include this communication with map in your closure report.

Chad Hensley ● Environmental Science & Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
811 First St. | Artesia, NM 88210
Office: 575.748.1283 | Cell: 575-703-1723
chad.hensley@state.nm.us
http://www.emnrd.state.nm.us/OCD/

From: Sanjari, Melodie (MRO) <msanjari@marathonoil.com>
Sent: Wednesday, February 16, 2022 4:35 PM
To: ocdonline, emnrd, EMNRD <EMNRD.OCDOnline@state.nm.us>; Hensley, Chad, EMNRD <Chad.Hensley@state.nm.us>
Cc: Lynn Acosta <lynn.acosta@soudermiller.com>; Lynn Acosta <lynn93acosta@gmail.com>; Ashley Maxwell <ashley.maxwell@soudermiller.com>
Subject: RE: [External] The Oil Conservation Division (OCD) has approved the application, Application ID: 69637

Mr. Hensley,

Thank you sir for your response on this release. Just wanting to get clarification on the request for adjusted closure criteria for Chlorides based on naturally occurring background levels.

Looking forward to hearing from you

Melodie Sanjari
Environmental Professional
Permian & Oklahoma
575-988-8753

Total Environmental Awareness at Marathon

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Wednesday, February 16, 2022 3:35 PM
To: Sanjari, Melodie (MRO) <msanjari@marathonoil.com>
Subject: [External] The Oil Conservation Division (OCD) has approved the application, Application ID: 69637

Beware of links/attachments.

To whom it may concern (c/o Melodie Sanjari for MARATHON OIL PERMIAN LLC),

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2035543036,
with the following conditions:

- **The OCD approves the closure criteria of depth to groundwater of less than 50 feet below grade surface (bgs).**
- **.Closure report due by 4/16/2022**

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you,
Chad Hensley
Environmental Science & Specialist
575-703-1723
Chad.Hensley@state.nm.us

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 97293

CONDITIONS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 97293
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved. Please implement 19.15.29.13 NMAC when completing P&A.	5/17/2022