

Incident ID	NRM2027439414
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?	<u>50</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within 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.

State of New Mexico  
Oil Conservation Division

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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: Dale Woodall Title: Env. Professional

Signature: *Dale Woodall* Date: 10/25/2022

email: dale.woodall@dvn.com Telephone: 575-748-1838

**OCD Only**

Received by: Jocelyn Harimon Date: 11/01/2022

Incident ID	NRM2027439414
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## Remediation Plan

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

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

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

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

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

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

- Approved       Approved with Attached Conditions of Approval       Denied       Deferral Approved

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Incident ID	NRM2027439414
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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: Dale Woodall Title: Env. Professional  
 Signature: Dale Woodall Date: 10/25/2022  
 email: dale.woodall@dvn.com Telephone: 575-748-1838

**OCD Only**

Received by: Jocelyn Harimon Date: 11/01/2022

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

Closure Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_



Souder, Miller & Associates ♦ 201 S. Halagueno St. ♦ Carlsbad, NM 88220  
(575) 689-8801

March 12, 2021

#5E29133-BG73

NMOCD District 1  
1625 N. French Dr.  
Hobbs, New Mexico 88240

SUBJECT: Remediation Closure Report for the Green Wave 20 Fed #1H Release (NRM2027439414),  
Lea County, New Mexico

To Whom It May Concern:

On behalf of Devon Energy Production Company, Souder, Miller & Associates (SMA) has prepared this Remediation Closure Report that describes the remediation of a release of liquids related to oil and gas production activities at the Green Wave 20 Fed #1H site. The site is in Unit M, Section 20, Township 26S, Range 34E, Lea 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.

<b>Table 1: Release Information and Closure Criteria</b>			
Name	Green Wave 20 Fed 1H	Company	Devon Energy Production Company
API Number	30-025-40383	Location	32.025639, -103.4993515
Tracking Number	NRM2027439414		
Estimated Date of Release	9/21/2020	Date Reported to NMOCD	9/30/2020
Land Owner	Federal	Reported To	NMOCD, BLM
Source of Release	Hole in pipe on water line.		
Released Volume	7.98 BBLS	Released Material	Produced Water
Recovered Volume	3 BBLS	Net Release	4.98 BBLS
NMOCD Closure Criteria	<50 feet to groundwater		
SMA Response Dates	10/12/2020 (MMX), 11/5/2020, 11/23/2020		

Green Wave 20 Fed 1H Closure Report (NRM2027439414)  
March 12, 2021

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## **1.0 Background**

On September 21, 2020, a release was discovered at the Green Wave 20 Fed 1H site due to a puncture that developing in a water line. Initial response activities were conducted by Devon personnel, and included source elimination and site stabilization activities, which recovered approximately 3 barrels of fluid. 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 Green Wave 20 Fed #1H is an active storage facility located approximately 68 miles from Carlsbad, New Mexico on Federal (BLM) land at an elevation of approximately 3,370 feet above mean sea level (amsl).

### Depth to Groundwater

Based upon NMOCD water well data (Appendix B), depth to groundwater in the area is estimated to be less than 159 feet below grade surface (bgs).

### Wellhead Protection Area

There are no 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 draw, located approximately 2.32 miles to the northeast.

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 not lie within a sensitive area as described in 19.15.29.12.C(4) NMAC.

Due to the lack of supportable groundwater depth information, the applicable NMOCD Closure Criteria for this site is for a groundwater depth of less than 50 feet bgs.

## **3.0 Release Characterization and Remediation Activities**

On October 12, 2020, MMX personnel performed site delineation activities at the Green Wave 20 Fed 1H site. MMX 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 storage facility.

A total of four sample locations (S1-S4) were investigated, to depths up to four feet bgs. A total of 19 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.

On November 5, 2020, SMA collected 10 additional soil samples from the same marked locations, but at depths to further define the vertical extent of the release. Soil samples were field-screened for chloride using an electrical conductivity (EC) meter and for hydrocarbon impacts using a calibrated MiniRAE 3000 photoionization detector (PID) equipped with a 10.6 eV lamp as well as a Dexsil® PetroFLAG TPH Analyzer. A total of ten samples were collected for laboratory analysis using the methods above.

As summarized in Table 3a, results indicated that an area approximately 183 feet by 23 feet by 8 (on the north end) and 6 feet deep had been impacted.

On November 23, 2020, SMA returned to the site to guide the excavation of contaminated soil. SMA guided the excavation activities by collecting soil samples for field screening. Samples were screened for chloride using an electrical conductivity (EC) meter and for hydrocarbon impacts using the methods listed above. The walls and base were excavated until field screening results indicated that the NMOCD Closure Criteria would be met. NMOCD was notified on November 19, 2020 that closure samples were expected to be collected in two (2) business days.

On November 23, 2020, SMA collected confirmation samples from the walls and base of the excavation. The excavation was split into two different areas. The area represented by samples L1, located on the northernmost extent of the release, measured approximately 20 feet by 15 feet by 8 feet in depth. Confirmation samples (CS1, SW1, SW2, SW11, SW12) were collected from the base and sidewalls. The area represented by samples L2-L4, located on the southern extent of the excavation, measured approximately 144 feet by 20 feet by 6 feet deep. Confirmation samples (CS2-CS8 and SW3-SW10) were collected from the base and the sidewalls. Each sample represents 200 ft<sup>2</sup> of the impacted area.

A total of 20 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 Cardinal Laboratory in Hobbs, New Mexico.

Figure 3a shows the extent of the initial extent of the release along with initial soil sample locations, Figure 3b shows the extent of the final excavation and closure sample locations. All confirmation sample results are summarized in Table 3b. Laboratory reports are included in Appendix D.

#### **4.0 Site Recommendations**

As demonstrated in Table 3b, all closure samples meet the Closure Criteria. The site has been remediated to meet the standards of Table I of 19.15.29.12 NMAC. Contaminated soils were removed and replaced with clean backfill material to return the surface to previous contours. The contaminated soil was transported and disposed of at Northern Delaware Basin Landfill, located near Jal, NM, an NMOCD-permitted disposal facility.

SMA recommends no further action and requests closure of Incident Number NRM2027439414.

Green Wave 20 Fed 1H Closure Report (NRM2027439414)  
March 12, 2021

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## **5.0 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 either Ashley Maxwell at 505-320-8975 or Shawna Chubbuck at 505-325-7535.

Submitted by:  
SOUDER, MILLER & ASSOCIATES

Reviewed by:



Ashley Maxwell  
Project Manager

Shawna Chubbuck  
Senior Scientist

Green Wave 20 Fed 1H Closure Report (NRM2027439414)  
March 12, 2021

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**REFERENCES:**

New Mexico Office of the State Engineer (NMOSE) online water well database  
[https://gis.ose.state.nm.us/gisapps/ose\\_pod\\_locations/](https://gis.ose.state.nm.us/gisapps/ose_pod_locations/); accessed 2/25/2021

**ATTACHMENTS:**

**Figures:**

Figure 1: Vicinity and Well Head Protection Map  
Figure 2: Surface Water Radius Map  
Figure 3a: Site and Initial Sample Location Map  
Figure 3b: Site and Closure Sample Location Map

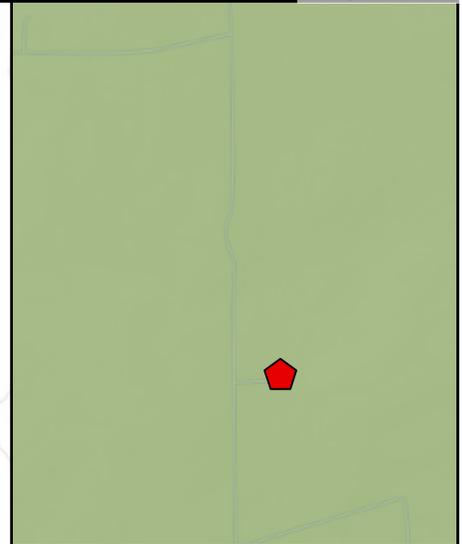
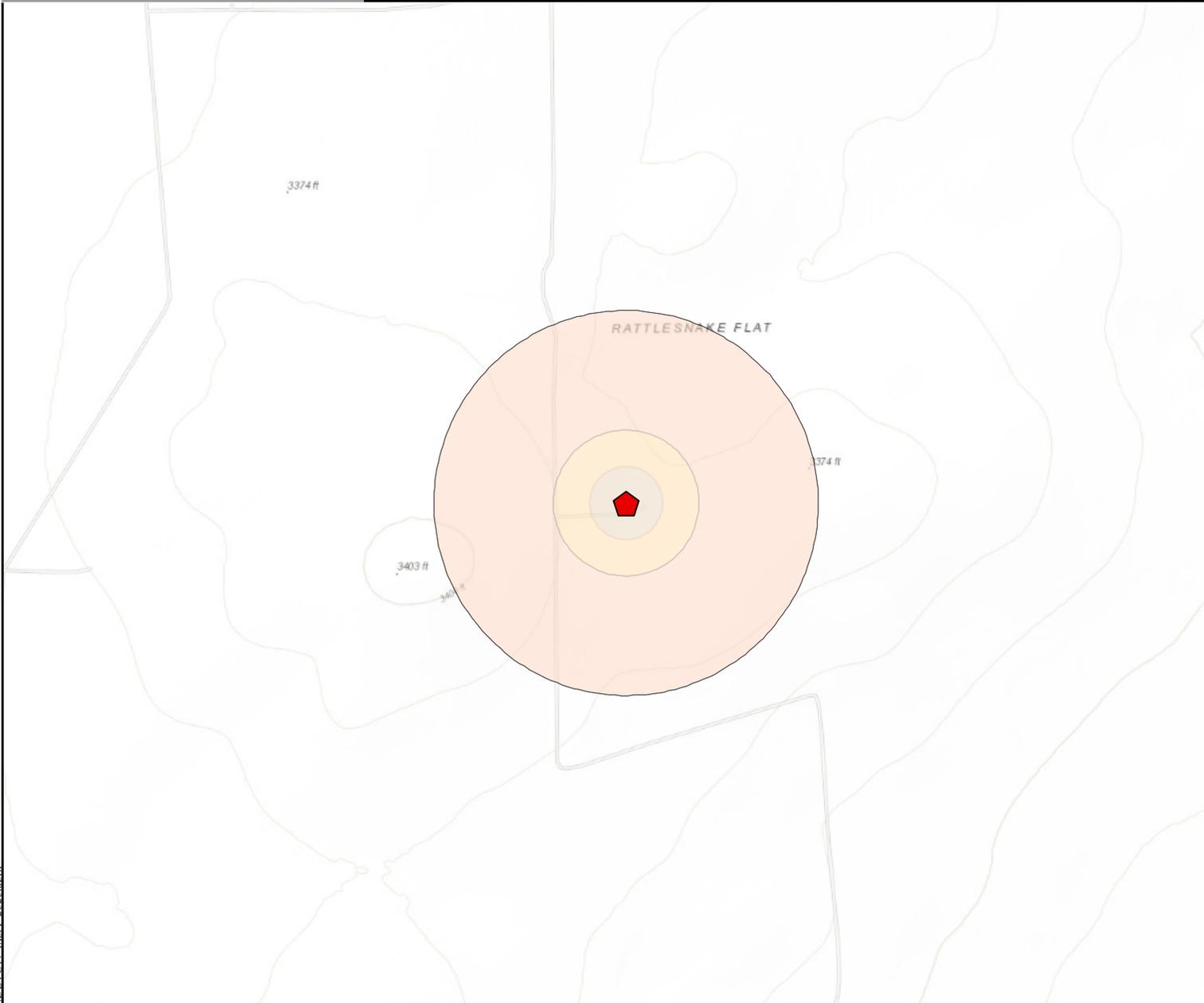
**Tables:**

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

**Appendices:**

Appendix A: Form C141  
Appendix B: NMOSE Wells Report  
Appendix C: Sampling Protocol  
Appendix D: Laboratory Analytical Reports  
Appendix E: Photo Log

# FIGURES



**Buffer Distance**

-  .5 Mile
-  1000 Feet
-  500 Feet

**OSE Depth to GW**

- 

**Point of Release**

- 

**Karst Potential**

-  Critical
-  High
-  Medium
-  Low

**Scale**

0 500 1,000 2,000 3,000  
Feet

**North Arrow**

N

Vicinity and Well Head Protection Map  
 Green Wave 20 Fed 1H- Devon Energy Production Company  
 UL: M S: 20 T: 26S R: 34E, Lea County, New Mexico

Figure 1

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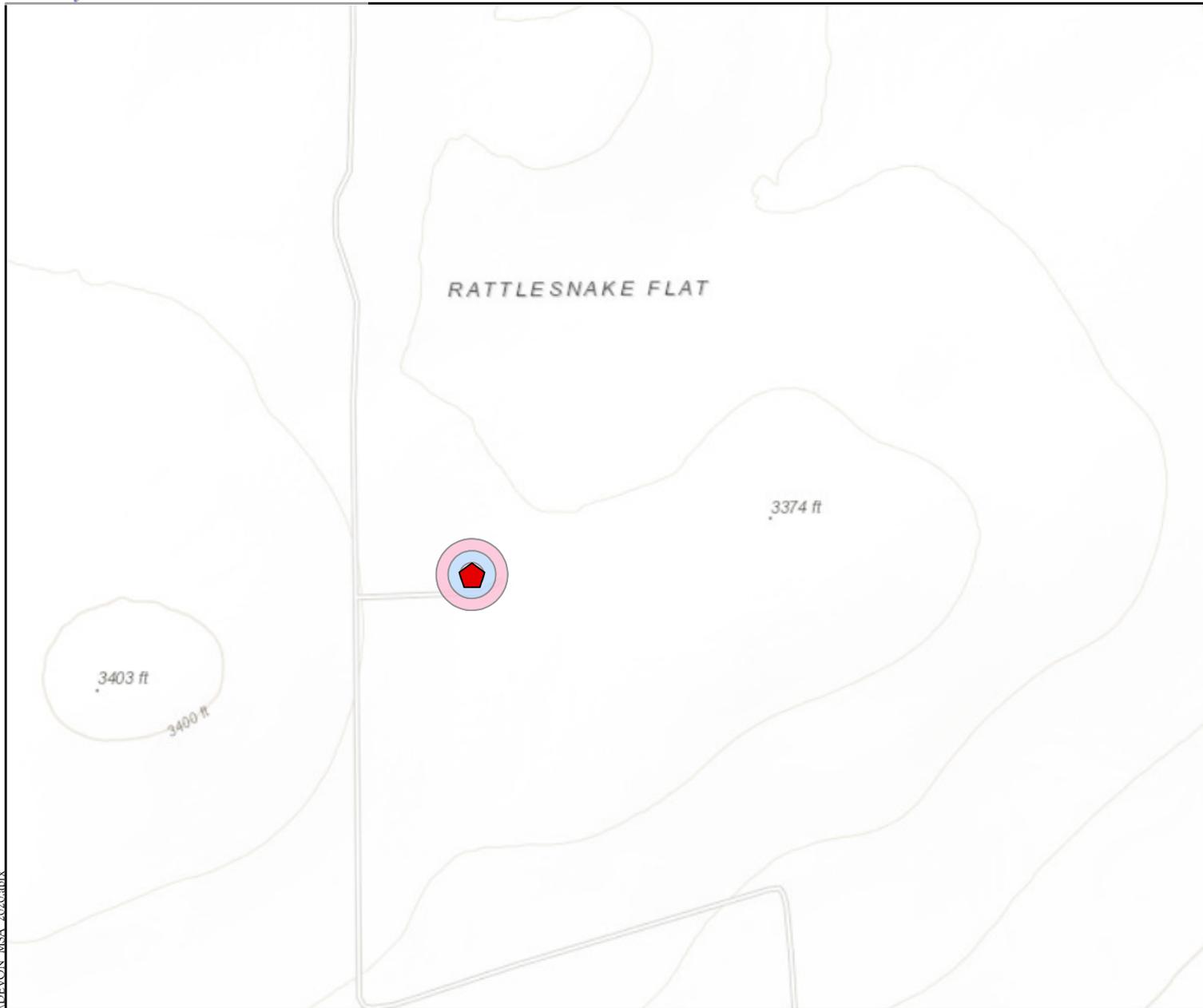
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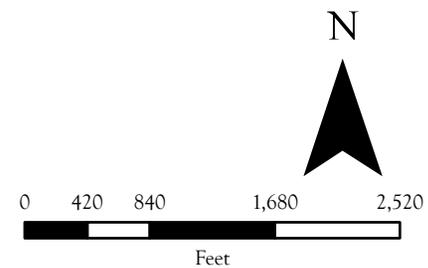
Drawn	Sebastian Orozco
Date	2/26/2021
Checked	_____
Approved	_____



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



Surface Water Radius Map  
 Green Wave 20 Fed 1H- Devon Energy  
 UL: M S: 20 T: 26S R: 34E Lea County, New Mexico

Figure 2

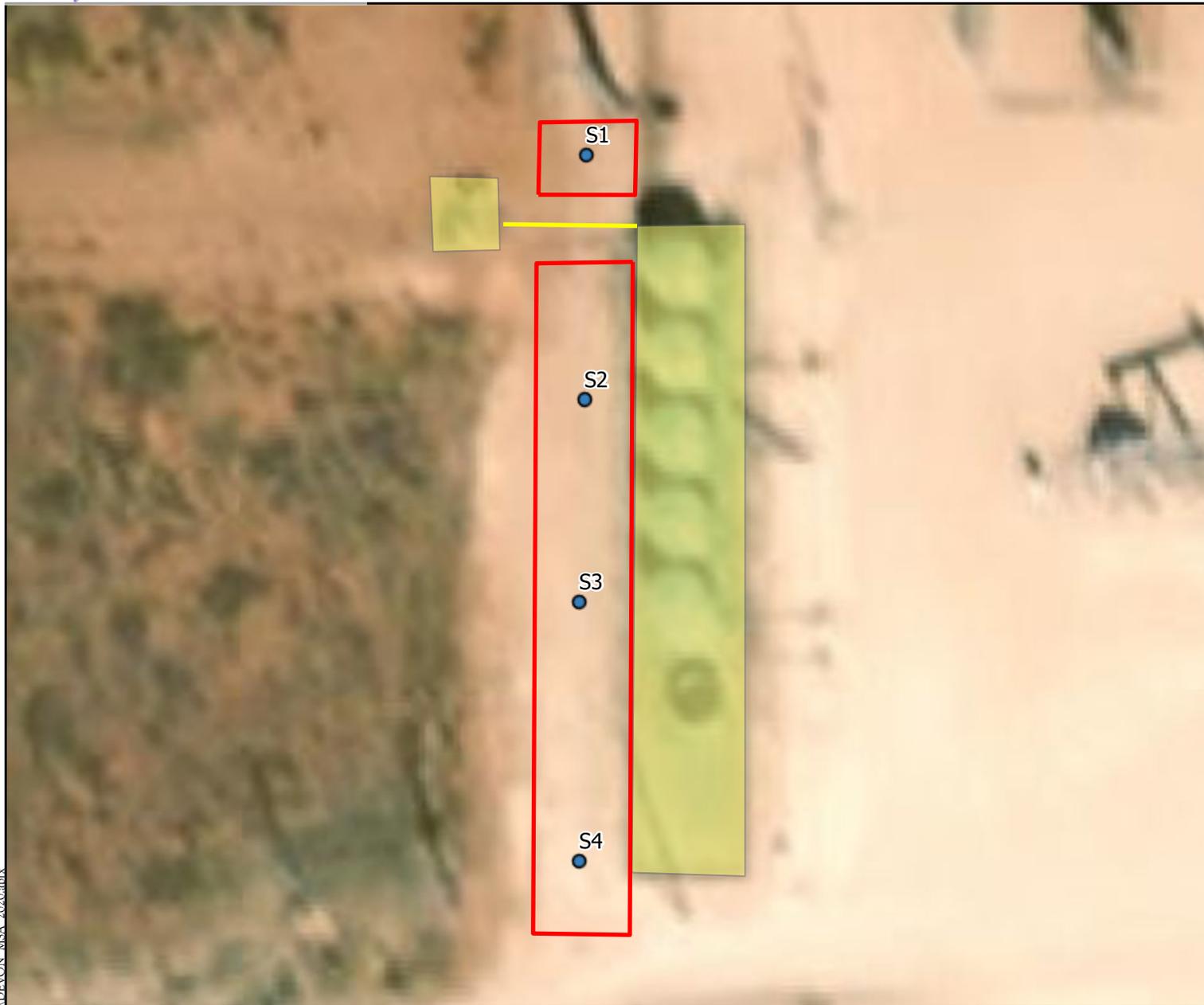
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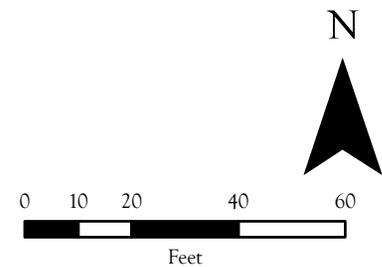
Drawn	Sebastian Orozco
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Approved	_____



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- Pipelines
  - Release Area
  - Equipment
- ### Sample Points
- Initial Soil Sample



Site and Initial Sample Location Map  
 Green Wave 20 Fed 1H - Devon Energy Production Company  
 32.0225639, -103.4993515- Eddy County , New Mexico

Figure 3a

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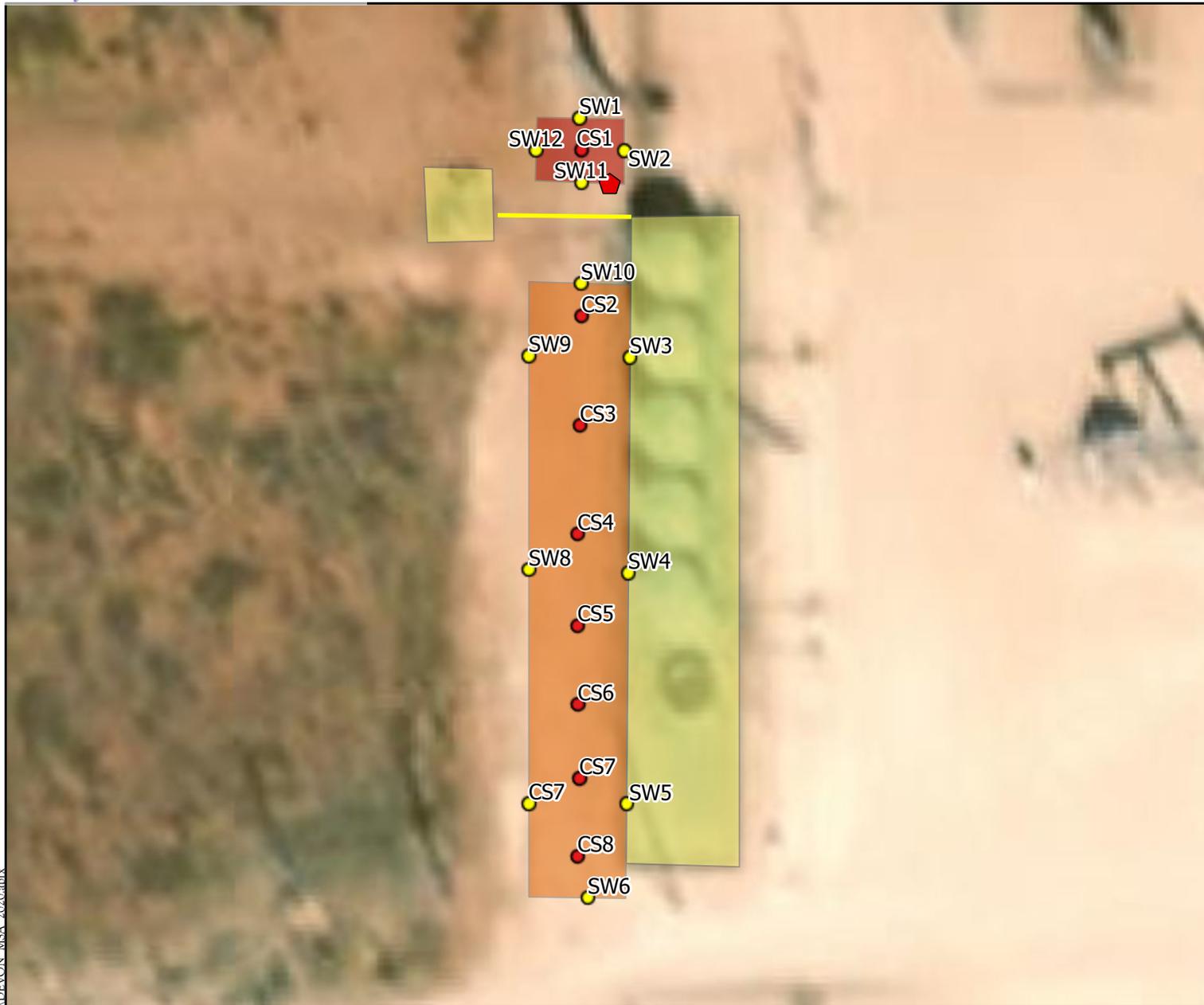
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Drawn	Sebastian Orozco
Date	<u>2/26/2021</u>
Checked	_____
Approved	_____

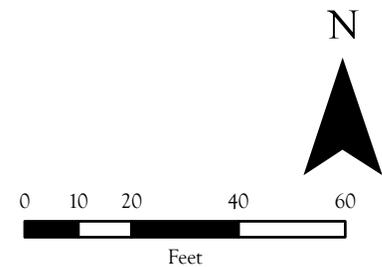


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-  Pipelines
-  8' Excavation
-  6' Excavation
-  Equipment
-  Point of Release



Site and Sample Location Map  
 Green Wave 20 Fed 1H - Devon Energy Production Company  
 32.0225639, -103.4993515- Eddy County , New Mexico

Figure 3b

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 By: \_\_\_\_\_ Date: \_\_\_\_\_ Descr: \_\_\_\_\_  
 By: \_\_\_\_\_ Date: \_\_\_\_\_ Descr: \_\_\_\_\_

Drawn Sebastian Orozco  
 Date 2/25/2021  
 Checked \_\_\_\_\_  
 Approved \_\_\_\_\_



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# TABLES

Table 2:  
NMOCD Closure Criteria

Devon Energy  
Green Wave 20 Fed 1H

Site Information (19.15.29.11.A(2, 3, and 4) NMAC)		Source/Notes
Depth to Groundwater (feet bgs)	159	NMOSE (Office of the State Engineer)
Horizontal Distance From All Water Sources Within 1/2 Mile (ft)	N/A	USGS
Horizontal Distance to Nearest Significant Watercourse (Miles)	2.32	NMOSE (Office of the State Engineer)

Closure Criteria (19.15.29.12.B(4) and Table 1 NMAC)						
Depth to Groundwater		Closure Criteria (units in mg/kg)				
		Chloride <small>*numerical limit or background, whichever is greater</small>	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?		No	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				

SMA #

Table 3a:  
Initial 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 (0-4 ft)				50	10	--	--	--	100	600
NMOCD Closure Criteria (>4 ft)				50	10				100	600
S1	10/12/2020	*Surface	Excavate	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	55,200
		*1		<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	5,730
		*2		<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	12,400
		*3		<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	23,200
		*4		<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	53,600
	11/5/2020	5		<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	10,100
		6		<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	5,460
7		<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	2,240		
S2	10/12/2020	*Surface	Excavate	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	41,600
		*1		<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	7,600
		*3		<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	17,800
		*4		<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	14,00
	11/5/2020	6	In-Situ	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	16
		7		<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	176
S3	10/12/2020	*Surface	Excavate	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	51,200
		*1		<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	4,000
		*2		<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	8,000
		*3		<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	5,840
		*4		<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	4,640
	11/5/2020	5	In-Situ	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	1,650
		6		<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	832
		7		<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	48
S4	10/12/2020	*Surface	Excavate	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	34,400
		*1		<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	5,920
		*2		<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	5,680
		*3		<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	8,400
		*4		<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	3,120
	11/5/2020	5	In-Situ	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	16
		6		<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	448

"-" = Not Analyzed  
\* = MMX Samples

Table 3b:  
Closure Sample Results

Devon Energy  
Green Wave 20 Fed 1H

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 Closure Criteria (>4 ft)				50	10				100	600
SW1	11/23/2020	0-8	In-situ	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	240
SW2		0-8		<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	32.0
SW3		0-6		<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	192
SW4		0-6		<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	336
SW5		0-6		<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	48.0
SW6		0-6		<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	256
SW7		0-6		<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	288
SW8		0-6		<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	464
SW9		0-6		<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	32.0
SW10		0-6		<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	432
SW11		0-8		<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	224
SW12		0-8		<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	48.0
CS1		8		<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	224
CS2		6		<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	32.0
CS3		6		<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	256
CS4		6		<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	208
CS5	6	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	32.0		
CS6	6	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	208		
CS7	6	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	32.0		
CS8	6	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	208		

"-" = Not Analyzed

BG: Background sample

SMA #

# 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

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

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

Incident ID	NRM2027439414
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party Devon Energy Production Company	OGRID 6137
Contact Name Lupe Carrasco	Contact Telephone 575-748-0165
Contact email Lupe.Carrasco@dvn.com	Incident # (assigned by OCD)
Contact mailing address 6488 Seven Rivers Hwy	

### Location of Release Source

Latitude 32.0225639 Longitude -103.4993515  
*(NAD 83 in decimal degrees to 5 decimal places)*

Site Name Green Wave 20 Fed #1H	Site Type Oil
Date Release Discovered 9/21/2020	API# (if applicable) 30-025-40383

Unit Letter	Section	Township	Range	County
M	20	26S	34E	Lea

Surface Owner:  State  Federal  Tribal  Private (Name: \_\_\_\_\_)

### Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 7.98 BBLS	Volume Recovered (bbls) 3 BBLS.
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release Hole in pipe on water line.

Incident ID	NRM2027439414
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

### Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:  <b>Fluid was not released in lined containment.</b>
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: <u>Kendra DeHoyos</u> Title: <u>EHS Associate</u> Signature: <u>Kendra DeHoyos</u> Date: <u>9/29/2020</u> email: <u>Kendra.DeHoyos@dvn.com</u> Telephone: <u>575-748-0167</u>
<b><u>OCD Only</u></b> Received by: <u>Ramona Marcus</u> Date: <u>9/30/2020</u>

Incident ID	NRM2027439414
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?	<u>50</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within 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.

Oil Conservation Division

Incident ID	NRM2027439414
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: Dale Woodall Title: Env. Professional

Signature: *Dale Woodall* Date: 10/25/2022

email: dale.woodall@dvn.com Telephone: 575-748-1838

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Incident ID	NRM2027439414
District RP	
Facility ID	
Application ID	

## Remediation Plan

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

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

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

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

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

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

- Approved     
 Approved with Attached Conditions of Approval     
 Denied     
 Deferral Approved

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Incident ID	NRM2027439414
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: Dale Woodall Title: Env. Professional  
 Signature: Dale Woodall Date: 10/25/2022  
 email: dale.woodall@dvn.com Telephone: 575-748-1838

**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: 11/28/2022  
 Printed Name: Jennifer Nobui Title: Environmental Specialist A

# 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	DepthWell	DepthWater	Water Column
<a href="#">C_02295</a>	CUB	LE	2	2	4	12	26S	33E	639865	3547624	3836	250	200	50	
<a href="#">C_02293</a>	CUB	LE	2	2	1	14	26S	33E	637501	3546975	5009	200	135	65	
<a href="#">C_02294</a>	CUB	LE	4	4	3	11	26S	33E	637465	3547003	5054	200	145	55	
<a href="#">C_02270</a>	CUB	LE	1	1	2	27	26S	33E	636063	3543722	5674	150	125	25	
<a href="#">C_03596 POD1</a>	C	LE	3	3	4	22	26S	33E	636017	3543756	5717	225			
<a href="#">C_03577 POD1</a>	CUB	LE	3	3	3	22	26S	33E	636010	3543771	5722	750	110	640	
<a href="#">C_02292 POD1</a>	CUB	LE	4	1	2	06	26S	34E	640992	3549987	5770	200	140	60	
<a href="#">C_03442 POD1</a>	C	LE	4	1	2	06	26S	34E	641056	3550028	5803	251			
<a href="#">C_03441 POD1</a>	C	LE	4	1	2	06	26S	34E	640971	3550039	5825	250			
<a href="#">C_02291</a>	CUB	LE	1	1	2	06	26S	34E	640825	3550140*	5944	220	160	60	
<a href="#">C_02289</a>	CUB	LE	4	4	4	03	26S	33E	636612	3548675*	6744	200	160	40	
<a href="#">C_02288</a>	CUB	LE	4	4	4	03	26S	33E	636646	3548758	6773	220	180	40	
<a href="#">C_02285 POD1</a>	CUB	LE	1	4	4	03	26S	33E	636613	3548855	6862	220	220	0	
<a href="#">C_02290</a>	CUB	LE	4	4	4	03	26S	33E	636538	3548770	6863	200	160	40	
<a href="#">C_02286</a>	CUB	LE	3	4	4	03	26S	33E	636470	3548714	6878	220	175	45	
<a href="#">C_02287</a>	C	LE	3	4	4	03	26S	33E	636427	3548708	6906	220			

Average Depth to Water: **159 feet**  
 Minimum Depth: **110 feet**  
 Maximum Depth: **220 feet**

**Record Count:** 16

**UTMNAD83 Radius Search (in meters):**

**Easting (X):** 641711.91

**Northing (Y):** 3544261.86

**Radius:** 7000

\*UTM location was derived from PLSS - see Help

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

2/26/21 2:02 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

# APPENDIX C

# SAMPLING PROTOCOL



## Sampling Protocol

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

## Sampling Analysis Field Quality Assurance Procedures

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

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

# APPENDIX D LABORATORY ANALYTICAL REPORTS



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

---

October 15, 2020

LUPE CARRASCO

MMX

2737 PECOS HWY

CARLSBAD, NM 88220

RE: GREENWAVE 20 FED

Enclosed are the results of analyses for samples received by the laboratory on 10/13/20 11:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

MMX  
 LUPE CARRASCO  
 2737 PECOS HWY  
 CARLSBAD NM, 88220  
 Fax To: (575) 236-6201

Received:	10/13/2020	Sampling Date:	10/12/2020
Reported:	10/15/2020	Sampling Type:	Soil
Project Name:	GREENWAVE 20 FED	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON		

**Sample ID: S 1 SURFACE (H002714-01)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/13/2020	ND	2.12	106	2.00	2.25		
Toluene*	<0.050	0.050	10/13/2020	ND	2.12	106	2.00	2.32		
Ethylbenzene*	<0.050	0.050	10/13/2020	ND	2.07	103	2.00	2.45		
Total Xylenes*	<0.150	0.150	10/13/2020	ND	5.91	98.4	6.00	2.43		
Total BTEX	<0.300	0.300	10/13/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	55200	16.0	10/14/2020	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/13/2020	ND	203	101	200	4.92		
DRO >C10-C28*	<10.0	10.0	10/13/2020	ND	208	104	200	7.06		
EXT DRO >C28-C36	<10.0	10.0	10/13/2020	ND						

Surrogate: 1-Chlorooctane 97.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 105 % 42.2-156

Cardinal Laboratories

\* = Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

MMX  
 LUPE CARRASCO  
 2737 PECOS HWY  
 CARLSBAD NM, 88220  
 Fax To: (575) 236-6201

Received:	10/13/2020	Sampling Date:	10/12/2020
Reported:	10/15/2020	Sampling Type:	Soil
Project Name:	GREENWAVE 20 FED	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON		

**Sample ID: S 2 SURFACE (H002714-02)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/13/2020	ND	2.12	106	2.00	2.25		
Toluene*	<0.050	0.050	10/13/2020	ND	2.12	106	2.00	2.32		
Ethylbenzene*	<0.050	0.050	10/13/2020	ND	2.07	103	2.00	2.45		
Total Xylenes*	<0.150	0.150	10/13/2020	ND	5.91	98.4	6.00	2.43		
Total BTEX	<0.300	0.300	10/13/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	41600	16.0	10/14/2020	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/13/2020	ND	203	101	200	4.92		
DRO >C10-C28*	<10.0	10.0	10/13/2020	ND	208	104	200	7.06		
EXT DRO >C28-C36	<10.0	10.0	10/13/2020	ND						

Surrogate: 1-Chlorooctane 99.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 107 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

MMX  
 LUPE CARRASCO  
 2737 PECOS HWY  
 CARLSBAD NM, 88220  
 Fax To: (575) 236-6201

Received:	10/13/2020	Sampling Date:	10/12/2020
Reported:	10/15/2020	Sampling Type:	Soil
Project Name:	GREENWAVE 20 FED	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON		

**Sample ID: S 3 SURFACE (H002714-03)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/13/2020	ND	2.12	106	2.00	2.25		
Toluene*	<0.050	0.050	10/13/2020	ND	2.12	106	2.00	2.32		
Ethylbenzene*	<0.050	0.050	10/13/2020	ND	2.07	103	2.00	2.45		
Total Xylenes*	<0.150	0.150	10/13/2020	ND	5.91	98.4	6.00	2.43		
Total BTEX	<0.300	0.300	10/13/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	51200	16.0	10/14/2020	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/13/2020	ND	203	101	200	4.92		
DRO >C10-C28*	<10.0	10.0	10/13/2020	ND	208	104	200	7.06		
EXT DRO >C28-C36	<10.0	10.0	10/13/2020	ND						

Surrogate: 1-Chlorooctane 91.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 98.9 % 42.2-156

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**Analytical Results For:**

MMX  
 LUPE CARRASCO  
 2737 PECOS HWY  
 CARLSBAD NM, 88220  
 Fax To: (575) 236-6201

Received:	10/13/2020	Sampling Date:	10/12/2020
Reported:	10/15/2020	Sampling Type:	Soil
Project Name:	GREENWAVE 20 FED	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON		

**Sample ID: S 4 SURFACE (H002714-04)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/13/2020	ND	2.12	106	2.00	2.25		
Toluene*	<0.050	0.050	10/13/2020	ND	2.12	106	2.00	2.32		
Ethylbenzene*	<0.050	0.050	10/13/2020	ND	2.07	103	2.00	2.45		
Total Xylenes*	<0.150	0.150	10/13/2020	ND	5.91	98.4	6.00	2.43		
Total BTEX	<0.300	0.300	10/13/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	34400	16.0	10/14/2020	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/13/2020	ND	203	101	200	4.92		
DRO >C10-C28*	<10.0	10.0	10/13/2020	ND	208	104	200	7.06		
EXT DRO >C28-C36	<10.0	10.0	10/13/2020	ND						

Surrogate: 1-Chlorooctane 89.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 96.5 % 42.2-156

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**Analytical Results For:**

MMX  
 LUPE CARRASCO  
 2737 PECOS HWY  
 CARLSBAD NM, 88220  
 Fax To: (575) 236-6201

Received:	10/13/2020	Sampling Date:	10/12/2020
Reported:	10/15/2020	Sampling Type:	Soil
Project Name:	GREENWAVE 20 FED	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON		

**Sample ID: S 1 1' (H002714-05)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/13/2020	ND	2.12	106	2.00	2.25		
Toluene*	<0.050	0.050	10/13/2020	ND	2.12	106	2.00	2.32		
Ethylbenzene*	<0.050	0.050	10/13/2020	ND	2.07	103	2.00	2.45		
Total Xylenes*	<0.150	0.150	10/13/2020	ND	5.91	98.4	6.00	2.43		
Total BTEX	<0.300	0.300	10/13/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5730	16.0	10/14/2020	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/13/2020	ND	203	101	200	4.92		
DRO >C10-C28*	<10.0	10.0	10/13/2020	ND	208	104	200	7.06		
EXT DRO >C28-C36	<10.0	10.0	10/13/2020	ND						

Surrogate: 1-Chlorooctane 90.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 98.9 % 42.2-156

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**Analytical Results For:**

MMX  
 LUPE CARRASCO  
 2737 PECOS HWY  
 CARLSBAD NM, 88220  
 Fax To: (575) 236-6201

Received:	10/13/2020	Sampling Date:	10/12/2020
Reported:	10/15/2020	Sampling Type:	Soil
Project Name:	GREENWAVE 20 FED	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON		

**Sample ID: S 2 1' (H002714-06)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/13/2020	ND	2.12	106	2.00	2.25	
Toluene*	<0.050	0.050	10/13/2020	ND	2.12	106	2.00	2.32	
Ethylbenzene*	<0.050	0.050	10/13/2020	ND	2.07	103	2.00	2.45	
Total Xylenes*	<0.150	0.150	10/13/2020	ND	5.91	98.4	6.00	2.43	
Total BTEX	<0.300	0.300	10/13/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7600	16.0	10/14/2020	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2020	ND	203	101	200	4.92	
DRO >C10-C28*	<10.0	10.0	10/13/2020	ND	208	104	200	7.06	
EXT DRO >C28-C36	<10.0	10.0	10/13/2020	ND					

Surrogate: 1-Chlorooctane 93.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 102 % 42.2-156

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**Analytical Results For:**

MMX  
 LUPE CARRASCO  
 2737 PECOS HWY  
 CARLSBAD NM, 88220  
 Fax To: (575) 236-6201

Received:	10/13/2020	Sampling Date:	10/12/2020
Reported:	10/15/2020	Sampling Type:	Soil
Project Name:	GREENWAVE 20 FED	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON		

**Sample ID: S 3 1' (H002714-07)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/13/2020	ND	2.12	106	2.00	2.25	
Toluene*	<0.050	0.050	10/13/2020	ND	2.12	106	2.00	2.32	
Ethylbenzene*	<0.050	0.050	10/13/2020	ND	2.07	103	2.00	2.45	
Total Xylenes*	<0.150	0.150	10/13/2020	ND	5.91	98.4	6.00	2.43	
Total BTEX	<0.300	0.300	10/13/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4000	16.0	10/14/2020	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2020	ND	204	102	200	6.58	
DRO >C10-C28*	<10.0	10.0	10/13/2020	ND	212	106	200	6.26	
EXT DRO >C28-C36	<10.0	10.0	10/13/2020	ND					

Surrogate: 1-Chlorooctane 96.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 104 % 42.2-156

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**Analytical Results For:**

MMX  
 LUPE CARRASCO  
 2737 PECOS HWY  
 CARLSBAD NM, 88220  
 Fax To: (575) 236-6201

Received:	10/13/2020	Sampling Date:	10/12/2020
Reported:	10/15/2020	Sampling Type:	Soil
Project Name:	GREENWAVE 20 FED	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON		

**Sample ID: S 4 1' (H002714-08)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/13/2020	ND	2.12	106	2.00	2.25		
Toluene*	<0.050	0.050	10/13/2020	ND	2.12	106	2.00	2.32		
Ethylbenzene*	<0.050	0.050	10/13/2020	ND	2.07	103	2.00	2.45		
Total Xylenes*	<0.150	0.150	10/13/2020	ND	5.91	98.4	6.00	2.43		
Total BTEX	<0.300	0.300	10/13/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5920	16.0	10/14/2020	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/13/2020	ND	204	102	200	6.58		
DRO >C10-C28*	<10.0	10.0	10/13/2020	ND	212	106	200	6.26		
EXT DRO >C28-C36	<10.0	10.0	10/13/2020	ND						

Surrogate: 1-Chlorooctane 97.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 106 % 42.2-156

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**Analytical Results For:**

MMX  
 LUPE CARRASCO  
 2737 PECOS HWY  
 CARLSBAD NM, 88220  
 Fax To: (575) 236-6201

Received:	10/13/2020	Sampling Date:	10/12/2020
Reported:	10/15/2020	Sampling Type:	Soil
Project Name:	GREENWAVE 20 FED	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON		

**Sample ID: S 1 2' (H002714-09)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/13/2020	ND	2.09	104	2.00	0.144	
Toluene*	<0.050	0.050	10/13/2020	ND	2.07	104	2.00	0.312	
Ethylbenzene*	<0.050	0.050	10/13/2020	ND	2.02	101	2.00	0.364	
Total Xylenes*	<0.150	0.150	10/13/2020	ND	5.78	96.4	6.00	0.303	
Total BTEX	<0.300	0.300	10/13/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12400	16.0	10/14/2020	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2020	ND	204	102	200	6.58	
DRO >C10-C28*	<10.0	10.0	10/13/2020	ND	212	106	200	6.26	
EXT DRO >C28-C36	<10.0	10.0	10/13/2020	ND					

Surrogate: 1-Chlorooctane 96.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 104 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

MMX  
 LUPE CARRASCO  
 2737 PECOS HWY  
 CARLSBAD NM, 88220  
 Fax To: (575) 236-6201

Received:	10/13/2020	Sampling Date:	10/12/2020
Reported:	10/15/2020	Sampling Type:	Soil
Project Name:	GREENWAVE 20 FED	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON		

**Sample ID: S 2 3' (H002714-10)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/13/2020	ND	2.09	104	2.00	0.144	
Toluene*	<0.050	0.050	10/13/2020	ND	2.07	104	2.00	0.312	
Ethylbenzene*	<0.050	0.050	10/13/2020	ND	2.02	101	2.00	0.364	
Total Xylenes*	<0.150	0.150	10/13/2020	ND	5.78	96.4	6.00	0.303	
Total BTEX	<0.300	0.300	10/13/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	17800	16.0	10/14/2020	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2020	ND	204	102	200	6.58	
DRO >C10-C28*	<10.0	10.0	10/13/2020	ND	212	106	200	6.26	
EXT DRO >C28-C36	<10.0	10.0	10/13/2020	ND					

Surrogate: 1-Chlorooctane 90.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 97.8 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

MMX  
 LUPE CARRASCO  
 2737 PECOS HWY  
 CARLSBAD NM, 88220  
 Fax To: (575) 236-6201

Received:	10/13/2020	Sampling Date:	10/12/2020
Reported:	10/15/2020	Sampling Type:	Soil
Project Name:	GREENWAVE 20 FED	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON		

**Sample ID: S 1 3' (H002714-11)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/13/2020	ND	2.09	104	2.00	0.144	
Toluene*	<0.050	0.050	10/13/2020	ND	2.07	104	2.00	0.312	
Ethylbenzene*	<0.050	0.050	10/13/2020	ND	2.02	101	2.00	0.364	
Total Xylenes*	<0.150	0.150	10/13/2020	ND	5.78	96.4	6.00	0.303	
Total BTEX	<0.300	0.300	10/13/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	23200	16.0	10/14/2020	ND	416	104	400	0.00	QM-07

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/14/2020	ND	204	102	200	6.58	
DRO >C10-C28*	<10.0	10.0	10/14/2020	ND	212	106	200	6.26	
EXT DRO >C28-C36	<10.0	10.0	10/14/2020	ND					

Surrogate: 1-Chlorooctane 91.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 99.5 % 42.2-156

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**Analytical Results For:**

MMX  
 LUPE CARRASCO  
 2737 PECOS HWY  
 CARLSBAD NM, 88220  
 Fax To: (575) 236-6201

Received:	10/13/2020	Sampling Date:	10/12/2020
Reported:	10/15/2020	Sampling Type:	Soil
Project Name:	GREENWAVE 20 FED	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON		

**Sample ID: S 1 4' (H002714-12)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/13/2020	ND	2.09	104	2.00	0.144	
Toluene*	<0.050	0.050	10/13/2020	ND	2.07	104	2.00	0.312	
Ethylbenzene*	<0.050	0.050	10/13/2020	ND	2.02	101	2.00	0.364	
Total Xylenes*	<0.150	0.150	10/13/2020	ND	5.78	96.4	6.00	0.303	
Total BTEX	<0.300	0.300	10/13/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5360	16.0	10/14/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/14/2020	ND	204	102	200	6.58	
DRO >C10-C28*	<10.0	10.0	10/14/2020	ND	212	106	200	6.26	
EXT DRO >C28-C36	<10.0	10.0	10/14/2020	ND					

Surrogate: 1-Chlorooctane 89.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 97.8 % 42.2-156

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**Analytical Results For:**

MMX  
 LUPE CARRASCO  
 2737 PECOS HWY  
 CARLSBAD NM, 88220  
 Fax To: (575) 236-6201

Received:	10/13/2020	Sampling Date:	10/12/2020
Reported:	10/15/2020	Sampling Type:	Soil
Project Name:	GREENWAVE 20 FED	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON		

**Sample ID: S 2 4' (H002714-13)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/13/2020	ND	2.09	104	2.00	0.144	
Toluene*	<0.050	0.050	10/13/2020	ND	2.07	104	2.00	0.312	
Ethylbenzene*	<0.050	0.050	10/13/2020	ND	2.02	101	2.00	0.364	
Total Xylenes*	<0.150	0.150	10/13/2020	ND	5.78	96.4	6.00	0.303	
Total BTEX	<0.300	0.300	10/13/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14000	16.0	10/14/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/14/2020	ND	204	102	200	6.58	
DRO >C10-C28*	<10.0	10.0	10/14/2020	ND	212	106	200	6.26	
EXT DRO >C28-C36	<10.0	10.0	10/14/2020	ND					

Surrogate: 1-Chlorooctane 90.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 98.3 % 42.2-156

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**Analytical Results For:**

MMX  
 LUPE CARRASCO  
 2737 PECOS HWY  
 CARLSBAD NM, 88220  
 Fax To: (575) 236-6201

Received:	10/13/2020	Sampling Date:	10/12/2020
Reported:	10/15/2020	Sampling Type:	Soil
Project Name:	GREENWAVE 20 FED	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON		

**Sample ID: S 3 2' (H002714-14)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/13/2020	ND	2.09	104	2.00	0.144	
Toluene*	<0.050	0.050	10/13/2020	ND	2.07	104	2.00	0.312	
Ethylbenzene*	<0.050	0.050	10/13/2020	ND	2.02	101	2.00	0.364	
Total Xylenes*	<0.150	0.150	10/13/2020	ND	5.78	96.4	6.00	0.303	
Total BTEX	<0.300	0.300	10/13/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8000	16.0	10/14/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/14/2020	ND	204	102	200	6.58	
DRO >C10-C28*	<10.0	10.0	10/14/2020	ND	212	106	200	6.26	
EXT DRO >C28-C36	<10.0	10.0	10/14/2020	ND					

Surrogate: 1-Chlorooctane 90.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 98.5 % 42.2-156

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**Analytical Results For:**

MMX  
 LUPE CARRASCO  
 2737 PECOS HWY  
 CARLSBAD NM, 88220  
 Fax To: (575) 236-6201

Received:	10/13/2020	Sampling Date:	10/12/2020
Reported:	10/15/2020	Sampling Type:	Soil
Project Name:	GREENWAVE 20 FED	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON		

**Sample ID: S 4 2' (H002714-15)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/13/2020	ND	2.09	104	2.00	0.144	
Toluene*	<0.050	0.050	10/13/2020	ND	2.07	104	2.00	0.312	
Ethylbenzene*	<0.050	0.050	10/13/2020	ND	2.02	101	2.00	0.364	
Total Xylenes*	<0.150	0.150	10/13/2020	ND	5.78	96.4	6.00	0.303	
Total BTEX	<0.300	0.300	10/13/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5680	16.0	10/14/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/14/2020	ND	204	102	200	6.58	
DRO >C10-C28*	<10.0	10.0	10/14/2020	ND	212	106	200	6.26	
EXT DRO >C28-C36	<10.0	10.0	10/14/2020	ND					

Surrogate: 1-Chlorooctane 94.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 102 % 42.2-156

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**Analytical Results For:**

MMX  
 LUPE CARRASCO  
 2737 PECOS HWY  
 CARLSBAD NM, 88220  
 Fax To: (575) 236-6201

Received:	10/13/2020	Sampling Date:	10/12/2020
Reported:	10/15/2020	Sampling Type:	Soil
Project Name:	GREENWAVE 20 FED	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON		

**Sample ID: S 3 3' (H002714-16)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/13/2020	ND	2.09	104	2.00	0.144	
Toluene*	<0.050	0.050	10/13/2020	ND	2.07	104	2.00	0.312	
Ethylbenzene*	<0.050	0.050	10/13/2020	ND	2.02	101	2.00	0.364	
Total Xylenes*	<0.150	0.150	10/13/2020	ND	5.78	96.4	6.00	0.303	
Total BTEX	<0.300	0.300	10/13/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5840	16.0	10/14/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/14/2020	ND	204	102	200	6.58	
DRO >C10-C28*	<10.0	10.0	10/14/2020	ND	212	106	200	6.26	
EXT DRO >C28-C36	<10.0	10.0	10/14/2020	ND					

Surrogate: 1-Chlorooctane 84.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 92.7 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

MMX  
 LUPE CARRASCO  
 2737 PECOS HWY  
 CARLSBAD NM, 88220  
 Fax To: (575) 236-6201

Received:	10/13/2020	Sampling Date:	10/12/2020
Reported:	10/15/2020	Sampling Type:	Soil
Project Name:	GREENWAVE 20 FED	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON		

**Sample ID: S 4 3' (H002714-17)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/13/2020	ND	2.09	104	2.00	0.144	
Toluene*	<0.050	0.050	10/13/2020	ND	2.07	104	2.00	0.312	
Ethylbenzene*	<0.050	0.050	10/13/2020	ND	2.02	101	2.00	0.364	
Total Xylenes*	<0.150	0.150	10/13/2020	ND	5.78	96.4	6.00	0.303	
Total BTEX	<0.300	0.300	10/13/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8400	16.0	10/14/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/14/2020	ND	204	102	200	6.58	
DRO >C10-C28*	<10.0	10.0	10/14/2020	ND	212	106	200	6.26	
EXT DRO >C28-C36	<10.0	10.0	10/14/2020	ND					

Surrogate: 1-Chlorooctane 90.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 99.0 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

MMX  
 LUPE CARRASCO  
 2737 PECOS HWY  
 CARLSBAD NM, 88220  
 Fax To: (575) 236-6201

Received:	10/13/2020	Sampling Date:	10/12/2020
Reported:	10/15/2020	Sampling Type:	Soil
Project Name:	GREENWAVE 20 FED	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON		

**Sample ID: S 4 4' (H002714-18)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/13/2020	ND	2.09	104	2.00	0.144	
Toluene*	<0.050	0.050	10/13/2020	ND	2.07	104	2.00	0.312	
Ethylbenzene*	<0.050	0.050	10/13/2020	ND	2.02	101	2.00	0.364	
Total Xylenes*	<0.150	0.150	10/13/2020	ND	5.78	96.4	6.00	0.303	
Total BTEX	<0.300	0.300	10/13/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>3120</b>	16.0	10/14/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/14/2020	ND	204	102	200	6.58	
DRO >C10-C28*	<10.0	10.0	10/14/2020	ND	212	106	200	6.26	
EXT DRO >C28-C36	<10.0	10.0	10/14/2020	ND					

Surrogate: 1-Chlorooctane 84.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 93.6 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

MMX  
 LUPE CARRASCO  
 2737 PECOS HWY  
 CARLSBAD NM, 88220  
 Fax To: (575) 236-6201

Received:	10/13/2020	Sampling Date:	10/12/2020
Reported:	10/15/2020	Sampling Type:	Soil
Project Name:	GREENWAVE 20 FED	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON		

**Sample ID: S 3 4' (H002714-19)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/13/2020	ND	2.09	104	2.00	0.144	
Toluene*	<0.050	0.050	10/13/2020	ND	2.07	104	2.00	0.312	
Ethylbenzene*	<0.050	0.050	10/13/2020	ND	2.02	101	2.00	0.364	
Total Xylenes*	<0.150	0.150	10/13/2020	ND	5.78	96.4	6.00	0.303	
Total BTEX	<0.300	0.300	10/13/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>4640</b>	16.0	10/14/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/14/2020	ND	204	102	200	6.58	
DRO >C10-C28*	<10.0	10.0	10/14/2020	ND	212	106	200	6.26	
EXT DRO >C28-C36	<10.0	10.0	10/14/2020	ND					

Surrogate: 1-Chlorooctane 86.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 93.9 % 42.2-156

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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---

### Notes and Definitions

- QM-07      The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND          Analyte NOT DETECTED at or above the reporting limit
- RPD        Relative Percent Difference
- \*\*          Samples not received at proper temperature of 6°C or below.
- \*\*\*        Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
- Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager







PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

---

November 12, 2020

ASHLEY MAXWELL  
SOUDER MILLER AND ASSOCIATES  
201 S. HALAGUENO  
CARLSBAD, NM 88220

RE: GREEN WAVE 20 FEDERAL 1H

Enclosed are the results of analyses for samples received by the laboratory on 11/09/20 14:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene  
Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

SOUDER MILLER AND ASSOCIATES  
 ASHLEY MAXWELL  
 201 S. HALAGUENO  
 CARLSBAD NM, 88220  
 Fax To: NONE

Received:	11/09/2020	Sampling Date:	11/05/2020
Reported:	11/12/2020	Sampling Type:	Soil
Project Name:	GREEN WAVE 20 FEDERAL 1H	Sampling Condition:	** (See Notes)
Project Number:	20895698	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: S 1 - 5' (H002973-01)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2020	ND	1.89	94.4	2.00	9.75	
Toluene*	<0.050	0.050	11/10/2020	ND	1.82	90.9	2.00	10.5	
Ethylbenzene*	<0.050	0.050	11/10/2020	ND	1.90	95.2	2.00	9.54	
Total Xylenes*	<0.150	0.150	11/10/2020	ND	5.46	90.9	6.00	9.18	
Total BTEX	<0.300	0.300	11/10/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10100	16.0	11/10/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/09/2020	ND	219	110	200	5.06	
DRO >C10-C28*	<10.0	10.0	11/09/2020	ND	205	102	200	5.44	
EXT DRO >C28-C36	<10.0	10.0	11/09/2020	ND					

Surrogate: 1-Chlorooctane 100 % 44.3-144

Surrogate: 1-Chlorooctadecane 97.0 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

SOUDER MILLER AND ASSOCIATES  
 ASHLEY MAXWELL  
 201 S. HALAGUENO  
 CARLSBAD NM, 88220  
 Fax To: NONE

Received:	11/09/2020	Sampling Date:	11/05/2020
Reported:	11/12/2020	Sampling Type:	Soil
Project Name:	GREEN WAVE 20 FEDERAL 1H	Sampling Condition:	** (See Notes)
Project Number:	20895698	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: S 1 - 6' (H002973-02)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/10/2020	ND	1.89	94.4	2.00	9.75		
Toluene*	<0.050	0.050	11/10/2020	ND	1.82	90.9	2.00	10.5		
Ethylbenzene*	<0.050	0.050	11/10/2020	ND	1.90	95.2	2.00	9.54		
Total Xylenes*	<0.150	0.150	11/10/2020	ND	5.46	90.9	6.00	9.18		
Total BTEX	<0.300	0.300	11/10/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5460	16.0	11/10/2020	ND	432	108	400	3.77	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/09/2020	ND	219	110	200	5.06		
DRO >C10-C28*	<10.0	10.0	11/09/2020	ND	205	102	200	5.44		
EXT DRO >C28-C36	<10.0	10.0	11/09/2020	ND						

Surrogate: 1-Chlorooctane 104 % 44.3-144

Surrogate: 1-Chlorooctadecane 103 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

SOUDER MILLER AND ASSOCIATES  
 ASHLEY MAXWELL  
 201 S. HALAGUENO  
 CARLSBAD NM, 88220  
 Fax To: NONE

Received:	11/09/2020	Sampling Date:	11/05/2020
Reported:	11/12/2020	Sampling Type:	Soil
Project Name:	GREEN WAVE 20 FEDERAL 1H	Sampling Condition:	** (See Notes)
Project Number:	20895698	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: S 1 - 7' (H002973-03)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/10/2020	ND	1.89	94.4	2.00	9.75		
Toluene*	<0.050	0.050	11/10/2020	ND	1.82	90.9	2.00	10.5		
Ethylbenzene*	<0.050	0.050	11/10/2020	ND	1.90	95.2	2.00	9.54		
Total Xylenes*	<0.150	0.150	11/10/2020	ND	5.46	90.9	6.00	9.18		
Total BTEX	<0.300	0.300	11/10/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2240	16.0	11/10/2020	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/09/2020	ND	219	110	200	5.06		
DRO >C10-C28*	<10.0	10.0	11/09/2020	ND	205	102	200	5.44		
EXT DRO >C28-C36	<10.0	10.0	11/09/2020	ND						

Surrogate: 1-Chlorooctane 107 % 44.3-144

Surrogate: 1-Chlorooctadecane 104 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

SOUDER MILLER AND ASSOCIATES  
 ASHLEY MAXWELL  
 201 S. HALAGUENO  
 CARLSBAD NM, 88220  
 Fax To: NONE

Received:	11/09/2020	Sampling Date:	11/05/2020
Reported:	11/12/2020	Sampling Type:	Soil
Project Name:	GREEN WAVE 20 FEDERAL 1H	Sampling Condition:	** (See Notes)
Project Number:	20895698	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: S 2 - 6' (H002973-04)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/10/2020	ND	1.89	94.4	2.00	9.75		
Toluene*	<0.050	0.050	11/10/2020	ND	1.82	90.9	2.00	10.5		
Ethylbenzene*	<0.050	0.050	11/10/2020	ND	1.90	95.2	2.00	9.54		
Total Xylenes*	<0.150	0.150	11/10/2020	ND	5.46	90.9	6.00	9.18		
Total BTEX	<0.300	0.300	11/10/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/10/2020	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/09/2020	ND	219	110	200	5.06		
DRO >C10-C28*	<10.0	10.0	11/09/2020	ND	205	102	200	5.44		
EXT DRO >C28-C36	<10.0	10.0	11/09/2020	ND						

Surrogate: 1-Chlorooctane 104 % 44.3-144

Surrogate: 1-Chlorooctadecane 100 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

SOUDER MILLER AND ASSOCIATES  
 ASHLEY MAXWELL  
 201 S. HALAGUENO  
 CARLSBAD NM, 88220  
 Fax To: NONE

Received:	11/09/2020	Sampling Date:	11/05/2020
Reported:	11/12/2020	Sampling Type:	Soil
Project Name:	GREEN WAVE 20 FEDERAL 1H	Sampling Condition:	** (See Notes)
Project Number:	20895698	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: S 2 - 7' (H002973-05)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2020	ND	1.89	94.4	2.00	9.75	
Toluene*	<0.050	0.050	11/10/2020	ND	1.82	90.9	2.00	10.5	
Ethylbenzene*	<0.050	0.050	11/10/2020	ND	1.90	95.2	2.00	9.54	
Total Xylenes*	<0.150	0.150	11/10/2020	ND	5.46	90.9	6.00	9.18	
Total BTEX	<0.300	0.300	11/10/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	11/10/2020	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/09/2020	ND	219	110	200	5.06	
DRO >C10-C28*	<10.0	10.0	11/09/2020	ND	205	102	200	5.44	
EXT DRO >C28-C36	<10.0	10.0	11/09/2020	ND					

Surrogate: 1-Chlorooctane 97.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 95.4 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

SOUDER MILLER AND ASSOCIATES  
 ASHLEY MAXWELL  
 201 S. HALAGUENO  
 CARLSBAD NM, 88220  
 Fax To: NONE

Received:	11/09/2020	Sampling Date:	11/05/2020
Reported:	11/12/2020	Sampling Type:	Soil
Project Name:	GREEN WAVE 20 FEDERAL 1H	Sampling Condition:	** (See Notes)
Project Number:	20895698	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: S 3 - 5' (H002973-06)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2020	ND	1.89	94.4	2.00	9.75	
Toluene*	<0.050	0.050	11/10/2020	ND	1.82	90.9	2.00	10.5	
Ethylbenzene*	<0.050	0.050	11/10/2020	ND	1.90	95.2	2.00	9.54	
Total Xylenes*	<0.150	0.150	11/10/2020	ND	5.46	90.9	6.00	9.18	
Total BTEX	<0.300	0.300	11/10/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1650	16.0	11/10/2020	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2020	ND	219	110	200	5.06	
DRO >C10-C28*	<10.0	10.0	11/10/2020	ND	205	102	200	5.44	
EXT DRO >C28-C36	<10.0	10.0	11/10/2020	ND					

Surrogate: 1-Chlorooctane 99.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 97.7 % 42.2-156

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

SOUDER MILLER AND ASSOCIATES  
 ASHLEY MAXWELL  
 201 S. HALAGUENO  
 CARLSBAD NM, 88220  
 Fax To: NONE

Received:	11/09/2020	Sampling Date:	11/05/2020
Reported:	11/12/2020	Sampling Type:	Soil
Project Name:	GREEN WAVE 20 FEDERAL 1H	Sampling Condition:	** (See Notes)
Project Number:	20895698	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: S 3 - 6' (H002973-07)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2020	ND	1.89	94.4	2.00	9.75	
Toluene*	<0.050	0.050	11/10/2020	ND	1.82	90.9	2.00	10.5	
Ethylbenzene*	<0.050	0.050	11/10/2020	ND	1.90	95.2	2.00	9.54	
Total Xylenes*	<0.150	0.150	11/10/2020	ND	5.46	90.9	6.00	9.18	
Total BTEX	<0.300	0.300	11/10/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	832	16.0	11/10/2020	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2020	ND	219	110	200	5.06	
DRO >C10-C28*	<10.0	10.0	11/10/2020	ND	205	102	200	5.44	
EXT DRO >C28-C36	<10.0	10.0	11/10/2020	ND					

Surrogate: 1-Chlorooctane 105 % 44.3-144

Surrogate: 1-Chlorooctadecane 102 % 42.2-156

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

SOUDER MILLER AND ASSOCIATES  
 ASHLEY MAXWELL  
 201 S. HALAGUENO  
 CARLSBAD NM, 88220  
 Fax To: NONE

Received:	11/09/2020	Sampling Date:	11/05/2020
Reported:	11/12/2020	Sampling Type:	Soil
Project Name:	GREEN WAVE 20 FEDERAL 1H	Sampling Condition:	** (See Notes)
Project Number:	20895698	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: S 3 - 7' (H002973-08)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/10/2020	ND	1.89	94.4	2.00	9.75		
Toluene*	<0.050	0.050	11/10/2020	ND	1.82	90.9	2.00	10.5		
Ethylbenzene*	<0.050	0.050	11/10/2020	ND	1.90	95.2	2.00	9.54		
Total Xylenes*	<0.150	0.150	11/10/2020	ND	5.46	90.9	6.00	9.18		
Total BTEX	<0.300	0.300	11/10/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/10/2020	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/10/2020	ND	219	110	200	5.06		
DRO >C10-C28*	<10.0	10.0	11/10/2020	ND	205	102	200	5.44		
EXT DRO >C28-C36	<10.0	10.0	11/10/2020	ND						

Surrogate: 1-Chlorooctane 103 % 44.3-144

Surrogate: 1-Chlorooctadecane 101 % 42.2-156

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

SOUDER MILLER AND ASSOCIATES  
 ASHLEY MAXWELL  
 201 S. HALAGUENO  
 CARLSBAD NM, 88220  
 Fax To: NONE

Received:	11/09/2020	Sampling Date:	11/05/2020
Reported:	11/12/2020	Sampling Type:	Soil
Project Name:	GREEN WAVE 20 FEDERAL 1H	Sampling Condition:	** (See Notes)
Project Number:	20895698	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: S 4 - 5' (H002973-09)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/10/2020	ND	1.89	94.4	2.00	9.75		
Toluene*	<0.050	0.050	11/10/2020	ND	1.82	90.9	2.00	10.5		
Ethylbenzene*	<0.050	0.050	11/10/2020	ND	1.90	95.2	2.00	9.54		
Total Xylenes*	<0.150	0.150	11/10/2020	ND	5.46	90.9	6.00	9.18		
Total BTEX	<0.300	0.300	11/10/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/10/2020	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/10/2020	ND	219	110	200	5.06		
DRO >C10-C28*	<10.0	10.0	11/10/2020	ND	205	102	200	5.44		
EXT DRO >C28-C36	<10.0	10.0	11/10/2020	ND						

Surrogate: 1-Chlorooctane 104 % 44.3-144

Surrogate: 1-Chlorooctadecane 101 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

SOUDER MILLER AND ASSOCIATES  
 ASHLEY MAXWELL  
 201 S. HALAGUENO  
 CARLSBAD NM, 88220  
 Fax To: NONE

Received:	11/09/2020	Sampling Date:	11/05/2020
Reported:	11/12/2020	Sampling Type:	Soil
Project Name:	GREEN WAVE 20 FEDERAL 1H	Sampling Condition:	** (See Notes)
Project Number:	20895698	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: S 4 - 6' (H002973-10)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/11/2020	ND	1.97	98.5	2.00	0.134	
Toluene*	<0.050	0.050	11/11/2020	ND	1.89	94.6	2.00	0.323	
Ethylbenzene*	<0.050	0.050	11/11/2020	ND	1.99	99.3	2.00	0.288	
Total Xylenes*	<0.150	0.150	11/11/2020	ND	5.67	94.5	6.00	0.344	
Total BTEX	<0.300	0.300	11/11/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	11/10/2020	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2020	ND	220	110	200	5.84	
DRO >C10-C28*	<10.0	10.0	11/10/2020	ND	215	108	200	3.64	
EXT DRO >C28-C36	<10.0	10.0	11/10/2020	ND					

Surrogate: 1-Chlorooctane 82.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 79.6 % 42.2-156

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Notes and Definitions

- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
\*\* Samples not received at proper temperature of 6°C or below.
\*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240  
 (575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Snyder Miller + Associates  
 Project Manager: Ashley Maxwell  
 Address: \_\_\_\_\_ State: NM Zip: 88220  
 City: Carlsbad Attn: \_\_\_\_\_  
 Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_  
 Project #: 20895698 Project Owner: \_\_\_\_\_  
 Project Name: Green Wave 20 Federal 14 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Project Location: \_\_\_\_\_ Phone #: \_\_\_\_\_  
 Sampler Name: SO Fax #: \_\_\_\_\_  
 FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	REMARKS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
<u>HDD2973</u>	<u>S1-S1</u>	<u>6</u>	<u>1</u>	<u>X</u>						<u>11/5</u>	<u>11:00</u>	<u>BTEX (8021)</u>
	<u>S1-G1</u>										<u>11:05</u>	<u>TPH : 80150</u>
	<u>S1-71</u>										<u>11:10</u>	<u>CI</u>
	<u>S2-G1</u>										<u>11:15</u>	
	<u>S2-71</u>										<u>11:20</u>	
	<u>S3-S1</u>										<u>11:25</u>	
	<u>S3-G1</u>										<u>11:30</u>	
	<u>S3-71</u>										<u>11:35</u>	
	<u>S4-S1</u>										<u>11:40</u>	
	<u>S4-G1</u>										<u>11:45</u>	

Relinquished By: Tim Smith Date: 11/9 Received By: Paul Mendenhall Date: 11/5  
 Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Received By: \_\_\_\_\_ Date: \_\_\_\_\_

Delivered By: (Circle One) Observed Temp. °C 8.1 Sample Condition:  Intact  Cool  Yes  No  Yes  No  
 Sampler - UPS - Bus - Other: Corrected Temp. °C \_\_\_\_\_

Turnaround Time: \_\_\_\_\_ Standard  Rush   
 Thermometer ID #113 Bacteria (only) Sample Condition:  Cool  Intact  Yes  No  Yes  No  
 Correction Factor None Corrected Temp. °C \_\_\_\_\_

REMARKS: Bill Devon Emery directly  
Ashley Maxwell @ SnyderMiller.com

Vertical Result:  Yes  No Add'l Phone #: \_\_\_\_\_  
 All Results are emailed. Please provide Email address: \_\_\_\_\_



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December 01, 2020

ASHLEY MAXWELL

SOUDER MILLER AND ASSOCIATES

201 S. HALAGUENO

CARLSBAD, NM 88220

RE: GREEN WAVE

Enclosed are the results of analyses for samples received by the laboratory on 11/25/20 11:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

SOUDER MILLER AND ASSOCIATES  
 ASHLEY MAXWELL  
 201 S. HALAGUENO  
 CARLSBAD NM, 88220  
 Fax To: NONE

Received:	11/25/2020	Sampling Date:	11/23/2020
Reported:	12/01/2020	Sampling Type:	Soil
Project Name:	GREEN WAVE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

**Sample ID: SW 1 (H003120-01)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/30/2020	ND	1.82	91.2	2.00	8.44	
Toluene*	<0.050	0.050	11/30/2020	ND	1.77	88.5	2.00	8.87	
Ethylbenzene*	<0.050	0.050	11/30/2020	ND	1.82	91.2	2.00	8.68	
Total Xylenes*	<0.150	0.150	11/30/2020	ND	5.28	88.0	6.00	8.33	
Total BTEX	<0.300	0.300	11/30/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	11/30/2020	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/30/2020	ND	231	115	200	6.99	
DRO >C10-C28*	<10.0	10.0	11/30/2020	ND	232	116	200	6.53	
EXT DRO >C28-C36	<10.0	10.0	11/30/2020	ND					

Surrogate: 1-Chlorooctane 122 % 44.3-144

Surrogate: 1-Chlorooctadecane 120 % 42.2-156

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

SOUDER MILLER AND ASSOCIATES  
 ASHLEY MAXWELL  
 201 S. HALAGUENO  
 CARLSBAD NM, 88220  
 Fax To: NONE

Received:	11/25/2020	Sampling Date:	11/23/2020
Reported:	12/01/2020	Sampling Type:	Soil
Project Name:	GREEN WAVE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

**Sample ID: SW 2 (H003120-02)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/30/2020	ND	1.82	91.2	2.00	8.44		
Toluene*	<0.050	0.050	11/30/2020	ND	1.77	88.5	2.00	8.87		
Ethylbenzene*	<0.050	0.050	11/30/2020	ND	1.82	91.2	2.00	8.68		
Total Xylenes*	<0.150	0.150	11/30/2020	ND	5.28	88.0	6.00	8.33		
Total BTEX	<0.300	0.300	11/30/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/30/2020	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/30/2020	ND	231	115	200	6.99		
DRO >C10-C28*	<10.0	10.0	11/30/2020	ND	232	116	200	6.53		
EXT DRO >C28-C36	<10.0	10.0	11/30/2020	ND						

Surrogate: 1-Chlorooctane 116 % 44.3-144

Surrogate: 1-Chlorooctadecane 115 % 42.2-156

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

SOUDER MILLER AND ASSOCIATES  
 ASHLEY MAXWELL  
 201 S. HALAGUENO  
 CARLSBAD NM, 88220  
 Fax To: NONE

Received:	11/25/2020	Sampling Date:	11/23/2020
Reported:	12/01/2020	Sampling Type:	Soil
Project Name:	GREEN WAVE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

**Sample ID: SW 3 (H003120-03)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/30/2020	ND	1.82	91.2	2.00	8.44	
Toluene*	<0.050	0.050	11/30/2020	ND	1.77	88.5	2.00	8.87	
Ethylbenzene*	<0.050	0.050	11/30/2020	ND	1.82	91.2	2.00	8.68	
Total Xylenes*	<0.150	0.150	11/30/2020	ND	5.28	88.0	6.00	8.33	
Total BTEX	<0.300	0.300	11/30/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>192</b>	16.0	11/30/2020	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/30/2020	ND	231	115	200	6.99	
DRO >C10-C28*	<10.0	10.0	11/30/2020	ND	232	116	200	6.53	
EXT DRO >C28-C36	<10.0	10.0	11/30/2020	ND					

Surrogate: 1-Chlorooctane 119 % 44.3-144

Surrogate: 1-Chlorooctadecane 117 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

SOUDER MILLER AND ASSOCIATES  
 ASHLEY MAXWELL  
 201 S. HALAGUENO  
 CARLSBAD NM, 88220  
 Fax To: NONE

Received:	11/25/2020	Sampling Date:	11/23/2020
Reported:	12/01/2020	Sampling Type:	Soil
Project Name:	GREEN WAVE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

**Sample ID: SW 4 (H003120-04)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/30/2020	ND	1.82	91.2	2.00	8.44	
Toluene*	<0.050	0.050	11/30/2020	ND	1.77	88.5	2.00	8.87	
Ethylbenzene*	<0.050	0.050	11/30/2020	ND	1.82	91.2	2.00	8.68	
Total Xylenes*	<0.150	0.150	11/30/2020	ND	5.28	88.0	6.00	8.33	
Total BTEX	<0.300	0.300	11/30/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>336</b>	16.0	12/01/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/30/2020	ND	231	115	200	6.99	
DRO >C10-C28*	<10.0	10.0	11/30/2020	ND	232	116	200	6.53	
EXT DRO >C28-C36	<10.0	10.0	11/30/2020	ND					

Surrogate: 1-Chlorooctane 114 % 44.3-144

Surrogate: 1-Chlorooctadecane 113 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

SOUDER MILLER AND ASSOCIATES  
 ASHLEY MAXWELL  
 201 S. HALAGUENO  
 CARLSBAD NM, 88220  
 Fax To: NONE

Received:	11/25/2020	Sampling Date:	11/23/2020
Reported:	12/01/2020	Sampling Type:	Soil
Project Name:	GREEN WAVE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

**Sample ID: SW 5 (H003120-05)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/30/2020	ND	1.82	91.2	2.00	8.44	
Toluene*	<0.050	0.050	11/30/2020	ND	1.77	88.5	2.00	8.87	
Ethylbenzene*	<0.050	0.050	11/30/2020	ND	1.82	91.2	2.00	8.68	
Total Xylenes*	<0.150	0.150	11/30/2020	ND	5.28	88.0	6.00	8.33	
Total BTEX	<0.300	0.300	11/30/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/01/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/30/2020	ND	231	115	200	6.99	
DRO >C10-C28*	<10.0	10.0	11/30/2020	ND	232	116	200	6.53	
EXT DRO >C28-C36	<10.0	10.0	11/30/2020	ND					

Surrogate: 1-Chlorooctane 116 % 44.3-144

Surrogate: 1-Chlorooctadecane 113 % 42.2-156

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**Analytical Results For:**

SOUDER MILLER AND ASSOCIATES  
 ASHLEY MAXWELL  
 201 S. HALAGUENO  
 CARLSBAD NM, 88220  
 Fax To: NONE

Received:	11/25/2020	Sampling Date:	11/23/2020
Reported:	12/01/2020	Sampling Type:	Soil
Project Name:	GREEN WAVE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

**Sample ID: SW 6 (H003120-06)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/30/2020	ND	1.82	91.2	2.00	8.44	
Toluene*	<0.050	0.050	11/30/2020	ND	1.77	88.5	2.00	8.87	
Ethylbenzene*	<0.050	0.050	11/30/2020	ND	1.82	91.2	2.00	8.68	
Total Xylenes*	<0.150	0.150	11/30/2020	ND	5.28	88.0	6.00	8.33	
Total BTEX	<0.300	0.300	11/30/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	12/01/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/30/2020	ND	231	115	200	6.99	
DRO >C10-C28*	<10.0	10.0	11/30/2020	ND	232	116	200	6.53	
EXT DRO >C28-C36	<10.0	10.0	11/30/2020	ND					

Surrogate: 1-Chlorooctane 118 % 44.3-144

Surrogate: 1-Chlorooctadecane 117 % 42.2-156

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**Analytical Results For:**

SOUDER MILLER AND ASSOCIATES  
 ASHLEY MAXWELL  
 201 S. HALAGUENO  
 CARLSBAD NM, 88220  
 Fax To: NONE

Received:	11/25/2020	Sampling Date:	11/23/2020
Reported:	12/01/2020	Sampling Type:	Soil
Project Name:	GREEN WAVE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

**Sample ID: SW 7 (H003120-07)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/30/2020	ND	1.82	91.2	2.00	8.44	
Toluene*	<0.050	0.050	11/30/2020	ND	1.77	88.5	2.00	8.87	
Ethylbenzene*	<0.050	0.050	11/30/2020	ND	1.82	91.2	2.00	8.68	
Total Xylenes*	<0.150	0.150	11/30/2020	ND	5.28	88.0	6.00	8.33	
Total BTEX	<0.300	0.300	11/30/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>288</b>	16.0	12/01/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/30/2020	ND	231	115	200	6.99	
DRO >C10-C28*	<10.0	10.0	11/30/2020	ND	232	116	200	6.53	
EXT DRO >C28-C36	<10.0	10.0	11/30/2020	ND					

Surrogate: 1-Chlorooctane 115 % 44.3-144

Surrogate: 1-Chlorooctadecane 115 % 42.2-156

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**Analytical Results For:**

SOUDER MILLER AND ASSOCIATES  
 ASHLEY MAXWELL  
 201 S. HALAGUENO  
 CARLSBAD NM, 88220  
 Fax To: NONE

Received:	11/25/2020	Sampling Date:	11/23/2020
Reported:	12/01/2020	Sampling Type:	Soil
Project Name:	GREEN WAVE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

**Sample ID: SW 8 (H003120-08)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/30/2020	ND	1.82	91.2	2.00	8.44	
Toluene*	<0.050	0.050	11/30/2020	ND	1.77	88.5	2.00	8.87	
Ethylbenzene*	<0.050	0.050	11/30/2020	ND	1.82	91.2	2.00	8.68	
Total Xylenes*	<0.150	0.150	11/30/2020	ND	5.28	88.0	6.00	8.33	
Total BTEX	<0.300	0.300	11/30/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	12/01/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/30/2020	ND	231	115	200	6.99	
DRO >C10-C28*	<10.0	10.0	11/30/2020	ND	232	116	200	6.53	
EXT DRO >C28-C36	<10.0	10.0	11/30/2020	ND					

Surrogate: 1-Chlorooctane 116 % 44.3-144

Surrogate: 1-Chlorooctadecane 116 % 42.2-156

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**Analytical Results For:**

SOUDER MILLER AND ASSOCIATES  
 ASHLEY MAXWELL  
 201 S. HALAGUENO  
 CARLSBAD NM, 88220  
 Fax To: NONE

Received:	11/25/2020	Sampling Date:	11/23/2020
Reported:	12/01/2020	Sampling Type:	Soil
Project Name:	GREEN WAVE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

**Sample ID: SW 9 (H003120-09)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/30/2020	ND	1.82	91.2	2.00	8.44	
Toluene*	<0.050	0.050	11/30/2020	ND	1.77	88.5	2.00	8.87	
Ethylbenzene*	<0.050	0.050	11/30/2020	ND	1.82	91.2	2.00	8.68	
Total Xylenes*	<0.150	0.150	11/30/2020	ND	5.28	88.0	6.00	8.33	
Total BTEX	<0.300	0.300	11/30/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/01/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/30/2020	ND	231	115	200	6.99	
DRO >C10-C28*	<10.0	10.0	11/30/2020	ND	232	116	200	6.53	
EXT DRO >C28-C36	<10.0	10.0	11/30/2020	ND					

Surrogate: 1-Chlorooctane 119 % 44.3-144

Surrogate: 1-Chlorooctadecane 119 % 42.2-156

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**Analytical Results For:**

SOUDER MILLER AND ASSOCIATES  
 ASHLEY MAXWELL  
 201 S. HALAGUENO  
 CARLSBAD NM, 88220  
 Fax To: NONE

Received:	11/25/2020	Sampling Date:	11/23/2020
Reported:	12/01/2020	Sampling Type:	Soil
Project Name:	GREEN WAVE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

**Sample ID: SW 10 (H003120-10)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/30/2020	ND	1.82	91.2	2.00	8.44	
Toluene*	<0.050	0.050	11/30/2020	ND	1.77	88.5	2.00	8.87	
Ethylbenzene*	<0.050	0.050	11/30/2020	ND	1.82	91.2	2.00	8.68	
Total Xylenes*	<0.150	0.150	11/30/2020	ND	5.28	88.0	6.00	8.33	
Total BTEX	<0.300	0.300	11/30/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>432</b>	16.0	12/01/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/30/2020	ND	231	115	200	6.99	
DRO >C10-C28*	<10.0	10.0	11/30/2020	ND	232	116	200	6.53	
EXT DRO >C28-C36	<10.0	10.0	11/30/2020	ND					

Surrogate: 1-Chlorooctane 111 % 44.3-144

Surrogate: 1-Chlorooctadecane 109 % 42.2-156

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**Analytical Results For:**

SOUDER MILLER AND ASSOCIATES  
 ASHLEY MAXWELL  
 201 S. HALAGUENO  
 CARLSBAD NM, 88220  
 Fax To: NONE

Received:	11/25/2020	Sampling Date:	11/23/2020
Reported:	12/01/2020	Sampling Type:	Soil
Project Name:	GREEN WAVE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

**Sample ID: SW 11 (H003120-11)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/30/2020	ND	1.82	91.2	2.00	8.44	
Toluene*	<0.050	0.050	11/30/2020	ND	1.77	88.5	2.00	8.87	
Ethylbenzene*	<0.050	0.050	11/30/2020	ND	1.82	91.2	2.00	8.68	
Total Xylenes*	<0.150	0.150	11/30/2020	ND	5.28	88.0	6.00	8.33	
Total BTEX	<0.300	0.300	11/30/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	12/01/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/30/2020	ND	231	115	200	6.99	
DRO >C10-C28*	<10.0	10.0	11/30/2020	ND	232	116	200	6.53	
EXT DRO >C28-C36	<10.0	10.0	11/30/2020	ND					

Surrogate: 1-Chlorooctane 115 % 44.3-144

Surrogate: 1-Chlorooctadecane 112 % 42.2-156

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**Analytical Results For:**

SOUDER MILLER AND ASSOCIATES  
 ASHLEY MAXWELL  
 201 S. HALAGUENO  
 CARLSBAD NM, 88220  
 Fax To: NONE

Received:	11/25/2020	Sampling Date:	11/23/2020
Reported:	12/01/2020	Sampling Type:	Soil
Project Name:	GREEN WAVE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

**Sample ID: SW 12 (H003120-12)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/30/2020	ND	1.82	91.2	2.00	8.44		
Toluene*	<0.050	0.050	11/30/2020	ND	1.77	88.5	2.00	8.87		
Ethylbenzene*	<0.050	0.050	11/30/2020	ND	1.82	91.2	2.00	8.68		
Total Xylenes*	<0.150	0.150	11/30/2020	ND	5.28	88.0	6.00	8.33		
Total BTEX	<0.300	0.300	11/30/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>48.0</b>	16.0	12/01/2020	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/30/2020	ND	231	115	200	6.99		
DRO >C10-C28*	<10.0	10.0	11/30/2020	ND	232	116	200	6.53		
EXT DRO >C28-C36	<10.0	10.0	11/30/2020	ND						

Surrogate: 1-Chlorooctane 116 % 44.3-144

Surrogate: 1-Chlorooctadecane 113 % 42.2-156

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**Analytical Results For:**

SOUDER MILLER AND ASSOCIATES  
 ASHLEY MAXWELL  
 201 S. HALAGUENO  
 CARLSBAD NM, 88220  
 Fax To: NONE

Received:	11/25/2020	Sampling Date:	11/23/2020
Reported:	12/01/2020	Sampling Type:	Soil
Project Name:	GREEN WAVE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

**Sample ID: CS 1 (H003120-13)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/30/2020	ND	1.82	91.2	2.00	8.44	
Toluene*	<0.050	0.050	11/30/2020	ND	1.77	88.5	2.00	8.87	
Ethylbenzene*	<0.050	0.050	11/30/2020	ND	1.82	91.2	2.00	8.68	
Total Xylenes*	<0.150	0.150	11/30/2020	ND	5.28	88.0	6.00	8.33	
Total BTEX	<0.300	0.300	11/30/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	12/01/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/30/2020	ND	231	115	200	6.99	
DRO >C10-C28*	<10.0	10.0	11/30/2020	ND	232	116	200	6.53	
EXT DRO >C28-C36	<10.0	10.0	11/30/2020	ND					

Surrogate: 1-Chlorooctane 111 % 44.3-144

Surrogate: 1-Chlorooctadecane 109 % 42.2-156

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

SOUDER MILLER AND ASSOCIATES  
 ASHLEY MAXWELL  
 201 S. HALAGUENO  
 CARLSBAD NM, 88220  
 Fax To: NONE

Received:	11/25/2020	Sampling Date:	11/23/2020
Reported:	12/01/2020	Sampling Type:	Soil
Project Name:	GREEN WAVE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

**Sample ID: CS 2 (H003120-14)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/30/2020	ND	1.82	91.2	2.00	8.44	
Toluene*	<0.050	0.050	11/30/2020	ND	1.77	88.5	2.00	8.87	
Ethylbenzene*	<0.050	0.050	11/30/2020	ND	1.82	91.2	2.00	8.68	
Total Xylenes*	<0.150	0.150	11/30/2020	ND	5.28	88.0	6.00	8.33	
Total BTEX	<0.300	0.300	11/30/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/01/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/30/2020	ND	231	115	200	6.99	
DRO >C10-C28*	<10.0	10.0	11/30/2020	ND	232	116	200	6.53	
EXT DRO >C28-C36	<10.0	10.0	11/30/2020	ND					

Surrogate: 1-Chlorooctane 118 % 44.3-144

Surrogate: 1-Chlorooctadecane 119 % 42.2-156

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\*=Accredited Analyte

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**Analytical Results For:**

SOUDER MILLER AND ASSOCIATES  
 ASHLEY MAXWELL  
 201 S. HALAGUENO  
 CARLSBAD NM, 88220  
 Fax To: NONE

Received:	11/25/2020	Sampling Date:	11/23/2020
Reported:	12/01/2020	Sampling Type:	Soil
Project Name:	GREEN WAVE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

**Sample ID: CS 3 (H003120-15)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/30/2020	ND	1.82	91.2	2.00	8.44	
Toluene*	<0.050	0.050	11/30/2020	ND	1.77	88.5	2.00	8.87	
Ethylbenzene*	<0.050	0.050	11/30/2020	ND	1.82	91.2	2.00	8.68	
Total Xylenes*	<0.150	0.150	11/30/2020	ND	5.28	88.0	6.00	8.33	
Total BTEX	<0.300	0.300	11/30/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	12/01/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/01/2020	ND	231	115	200	6.99	
DRO >C10-C28*	<10.0	10.0	12/01/2020	ND	232	116	200	6.53	
EXT DRO >C28-C36	<10.0	10.0	12/01/2020	ND					

Surrogate: 1-Chlorooctane 114 % 44.3-144

Surrogate: 1-Chlorooctadecane 113 % 42.2-156

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**Analytical Results For:**

SOUDER MILLER AND ASSOCIATES  
 ASHLEY MAXWELL  
 201 S. HALAGUENO  
 CARLSBAD NM, 88220  
 Fax To: NONE

Received:	11/25/2020	Sampling Date:	11/23/2020
Reported:	12/01/2020	Sampling Type:	Soil
Project Name:	GREEN WAVE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

**Sample ID: CS 4 (H003120-16)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/30/2020	ND	1.82	91.2	2.00	8.44	
Toluene*	<0.050	0.050	11/30/2020	ND	1.77	88.5	2.00	8.87	
Ethylbenzene*	<0.050	0.050	11/30/2020	ND	1.82	91.2	2.00	8.68	
Total Xylenes*	<0.150	0.150	11/30/2020	ND	5.28	88.0	6.00	8.33	
Total BTEX	<0.300	0.300	11/30/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>208</b>	16.0	12/01/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/01/2020	ND	231	115	200	6.99	
DRO >C10-C28*	<10.0	10.0	12/01/2020	ND	232	116	200	6.53	
EXT DRO >C28-C36	<10.0	10.0	12/01/2020	ND					

Surrogate: 1-Chlorooctane 114 % 44.3-144

Surrogate: 1-Chlorooctadecane 112 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

SOUDER MILLER AND ASSOCIATES  
 ASHLEY MAXWELL  
 201 S. HALAGUENO  
 CARLSBAD NM, 88220  
 Fax To: NONE

Received:	11/25/2020	Sampling Date:	11/23/2020
Reported:	12/01/2020	Sampling Type:	Soil
Project Name:	GREEN WAVE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

**Sample ID: CS 5 (H003120-17)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/30/2020	ND	1.82	91.2	2.00	8.44	
Toluene*	<0.050	0.050	11/30/2020	ND	1.77	88.5	2.00	8.87	
Ethylbenzene*	<0.050	0.050	11/30/2020	ND	1.82	91.2	2.00	8.68	
Total Xylenes*	<0.150	0.150	11/30/2020	ND	5.28	88.0	6.00	8.33	
Total BTEX	<0.300	0.300	11/30/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	12/01/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/01/2020	ND	208	104	200	5.58	
DRO >C10-C28*	<10.0	10.0	12/01/2020	ND	180	89.9	200	12.1	
EXT DRO >C28-C36	<10.0	10.0	12/01/2020	ND					

Surrogate: 1-Chlorooctane 112 % 44.3-144

Surrogate: 1-Chlorooctadecane 117 % 42.2-156

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**Analytical Results For:**

SOUDER MILLER AND ASSOCIATES  
 ASHLEY MAXWELL  
 201 S. HALAGUENO  
 CARLSBAD NM, 88220  
 Fax To: NONE

Received:	11/25/2020	Sampling Date:	11/23/2020
Reported:	12/01/2020	Sampling Type:	Soil
Project Name:	GREEN WAVE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

**Sample ID: CS 6 (H003120-18)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/01/2020	ND	1.91	95.5	2.00	8.05	
Toluene*	<0.050	0.050	12/01/2020	ND	1.85	92.4	2.00	8.39	
Ethylbenzene*	<0.050	0.050	12/01/2020	ND	1.90	94.9	2.00	8.26	
Total Xylenes*	<0.150	0.150	12/01/2020	ND	5.40	89.9	6.00	7.73	
Total BTEX	<0.300	0.300	12/01/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	12/01/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/01/2020	ND	236	118	200	6.45	
DRO >C10-C28*	<10.0	10.0	12/01/2020	ND	242	121	200	7.34	
EXT DRO >C28-C36	<10.0	10.0	12/01/2020	ND					

Surrogate: 1-Chlorooctane 113 % 44.3-144

Surrogate: 1-Chlorooctadecane 111 % 42.2-156

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**Analytical Results For:**

SOUDER MILLER AND ASSOCIATES  
 ASHLEY MAXWELL  
 201 S. HALAGUENO  
 CARLSBAD NM, 88220  
 Fax To: NONE

Received:	11/25/2020	Sampling Date:	11/23/2020
Reported:	12/01/2020	Sampling Type:	Soil
Project Name:	GREEN WAVE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

**Sample ID: CS 7 (H003120-19)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/01/2020	ND	1.91	95.5	2.00	8.05	
Toluene*	<0.050	0.050	12/01/2020	ND	1.85	92.4	2.00	8.39	
Ethylbenzene*	<0.050	0.050	12/01/2020	ND	1.90	94.9	2.00	8.26	
Total Xylenes*	<0.150	0.150	12/01/2020	ND	5.40	89.9	6.00	7.73	
Total BTEX	<0.300	0.300	12/01/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/01/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/01/2020	ND	236	118	200	6.45	
DRO >C10-C28*	<10.0	10.0	12/01/2020	ND	242	121	200	7.34	
EXT DRO >C28-C36	<10.0	10.0	12/01/2020	ND					

Surrogate: 1-Chlorooctane 111 % 44.3-144

Surrogate: 1-Chlorooctadecane 109 % 42.2-156

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**Analytical Results For:**

SOUDER MILLER AND ASSOCIATES  
 ASHLEY MAXWELL  
 201 S. HALAGUENO  
 CARLSBAD NM, 88220  
 Fax To: NONE

Received:	11/25/2020	Sampling Date:	11/23/2020
Reported:	12/01/2020	Sampling Type:	Soil
Project Name:	GREEN WAVE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

**Sample ID: CS 8 (H003120-20)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/01/2020	ND	1.91	95.5	2.00	8.05	
Toluene*	<0.050	0.050	12/01/2020	ND	1.85	92.4	2.00	8.39	
Ethylbenzene*	<0.050	0.050	12/01/2020	ND	1.90	94.9	2.00	8.26	
Total Xylenes*	<0.150	0.150	12/01/2020	ND	5.40	89.9	6.00	7.73	
Total BTEX	<0.300	0.300	12/01/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	12/01/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/01/2020	ND	236	118	200	6.45	
DRO >C10-C28*	<10.0	10.0	12/01/2020	ND	242	121	200	7.34	
EXT DRO >C28-C36	<10.0	10.0	12/01/2020	ND					

Surrogate: 1-Chlorooctane 114 % 44.3-144

Surrogate: 1-Chlorooctadecane 117 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: SMA - Carlsbad  
 Project Manager: Ashley Maxwell  
 Address: 201 S. Halagueno  
 City: Carlsbad State: NM Zip: 88220  
 Phone #: Fax #: Project Owner:  
 Project Name: Green Wave  
 Project Location:  
 Sampler Name: SD

P.O. #: Company:  
 Attn: Address:  
 City: State: Zip:  
 Phone #: Fax #:

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
	SW1	C	1			X				11/23	8:30	X BTEX
	SW2	C	1			X				11/23	8:35	X TPH
	SW3	C	1			X				11/23	8:40	X CL
	SW4	C	1			X				11/23	8:45	
	SW5	C	1			X				11/23	8:50	
	SW6	C	1			X				11/23	8:55	
	SW7	C	1			X				11/23	9:00	
	SW8	C	1			X				11/23	9:05	
	SW9	C	1			X				11/23	9:10	
	SW10	C	1			X				11/23	9:15	

PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Reinquinshed By: *Shantay Cl.*  
 Date: 11-25-20  
 Time: 11:05

Received By: *Juanita Clark*  
 Date: 11-25-20  
 Time: 11:05

REMARKS:  
 Verbal Result:  Yes  No  Add'l Phone #:  
 All Results are emailed. Please provide Email address:

Delivered By: (Circle One) Observed Temp. °C 5.9  
 Corrected Temp. °C  
 Sample Condition Cool Intact Yes  No   
 Sample - UPS - Bus - Other: Corrected Temp. °C  
 CHECKED BY: (Initials) T.D.  
 Turnaround Time: Standard  Rush   
 Thermometer ID #113 Correction Factor None  
 Bacteria (only) Sample Condition Cool Intact Yes  No   
 Observed Temp. °C Corrected Temp. °C



# APPENDIX E PHOTO LOG

NW

N

NE

Received by OCD: 11/1/2022 10:43 Page 92 of 100

19°N (T) ● 32°1'21"N, 103°29'57"W ±180ft ▲ 3408ft



Released to Imaging: 11/28/2022 2:11:30 PM

19 Nov 2020, 12:26:16



NW

N

NE

Received by OCD: 11/1/2022 10:43 Page 94 of 100

3°N (T) ● 32°1'20"N, 103°29'59"W ±26ft ▲ 3374ft



Released to Imaging: 11/28/2022 2:11:30 PM .

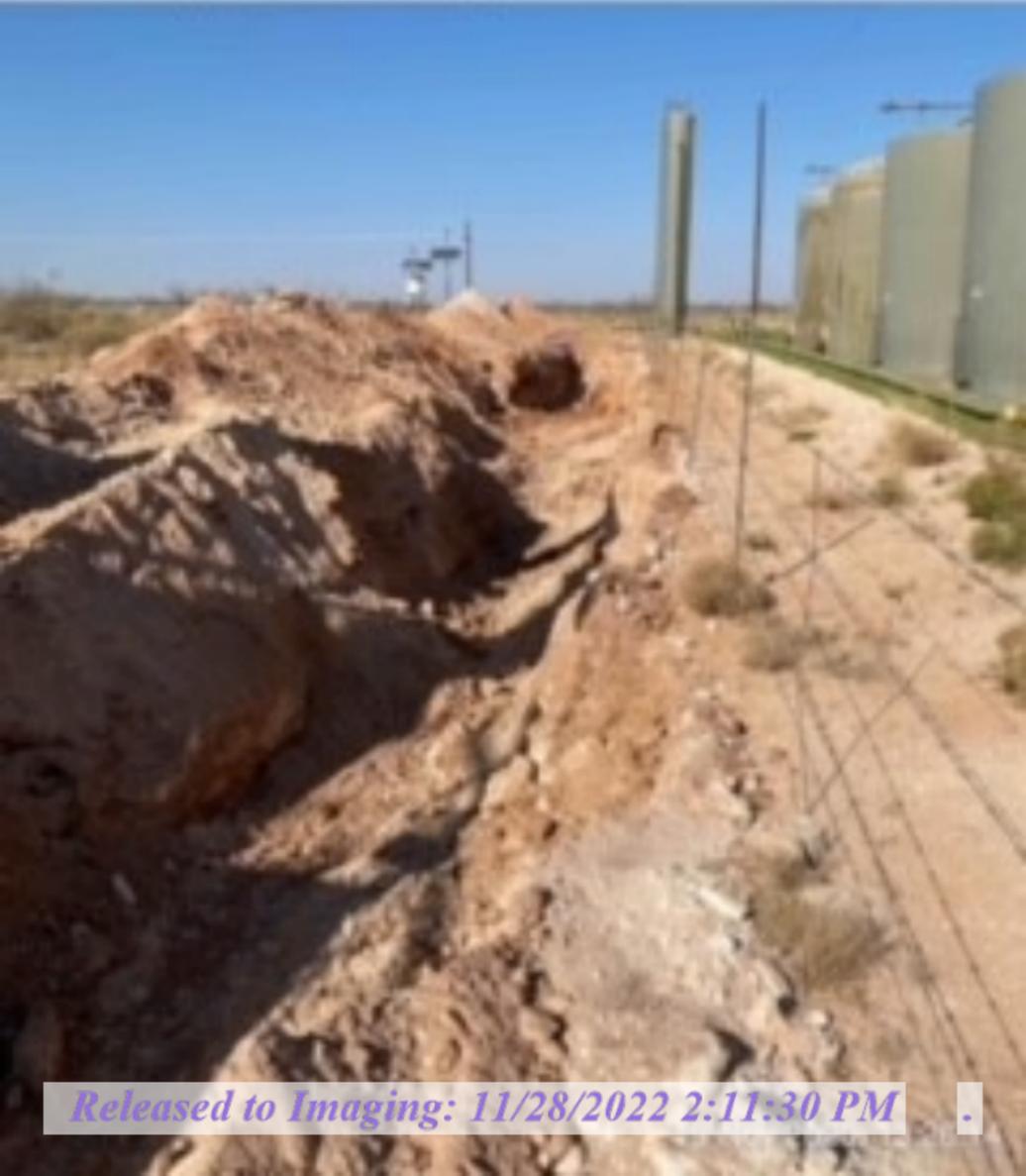
NW

N

NE

Received by OCD: 11/1/2022 10:43 Page 95 of 100

354°N (T) 32°1'20"N, 103°29'59"W ±52ft ▲ 3374ft



Released to Imaging: 11/28/2022 2:11:30 PM

SE

S

SW

*Received by OCD: 11/1/2022 10:43 Page 96 of 100*

○ 181°S (T) ● 32°1'21"N, 103°29'59"W ±13ft ▲ 3374ft



*Released to Imaging: 11/28/2022 2:11:30 PM*

SF

S

SW

Received by OCD: 11/1/2022 10:43 Page 97 of 100

172°S (T) ● 32°1'21"N, 103°29'59"W ±13ft ▲ 3374ft



Released to Imaging: 11/28/2022 2:11:30 PM

SF

S

SW

*Received by OCD: 11/1/2022 10:43 Page 98 of 100*

○ 183°S (T) ● 32°1'21"N, 103°29'59"W ±13ft ▲ 3374ft



*Released to Imaging: 11/28/2022 2:11:30 PM*

.

NW

N

NE

*Received by OCD: 11/1/2022 10:43 Page 99 of 100*

○ 359°N (T) ● 32°1'21"N, 103°29'59"W ±16ft ▲ 3374ft



*Released to Imaging: 11/28/2022 2:11:30 PM*

**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 155251

**CONDITIONS**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 155251
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	11/28/2022