

Incident ID	nAPP2213171033
District RP	
Facility ID	fAPP2201327731
Application ID	

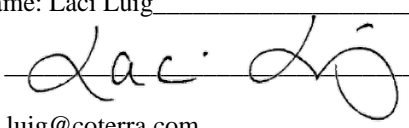
## Closure

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: Laci Luig \_\_\_\_\_ Title: ESH Specialist \_\_\_\_\_  
Signature:  \_\_\_\_\_ Date: 8/18/2022 \_\_\_\_\_  
email: laci.luig@coterra.com \_\_\_\_\_ Telephone: (432) 208-3035 \_\_\_\_\_

**OCD Only**

Received by: Jocelyn Harimon \_\_\_\_\_ Date: 08/18/2022 \_\_\_\_\_

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: 8/22/2022 \_\_\_\_\_  
Printed Name: Robert Hamlet \_\_\_\_\_ Title: Environmental Specialist - Advanced \_\_\_\_\_



[MCollier@H-R\\_Enterprises.com](mailto:MCollier@H-R_Enterprises.com) 575-909-0326

## **Remediation and Closure Report**

Cottonberry 20 Federal 1H, 5H-6H  
Incident# nAPP2213171033  
Eddy County, New Mexico

### **Prepared For:**

Cimarex Energy Co. of Colorado  
600 Marienfeld St.  
Midland, TX 79701

### **Prepared By:**

H&R Enterprises, LLC  
5120 W. Kansas St.  
Hobbs, New Mexico 88242

**August 09, 2022**

Mrs. Jennifer Nobui  
**New Mexico Oil Conservation Division**  
1220 S. St. Francis Drive  
Santa Fe, NM 87505

Subject: **Remediation and Closure Report**  
Cottonberry 20 Federal 1H, 5H-6H  
Incident# nAPP2213171033  
Eddy County, NM

Dear Mrs. Nobui,

Cimarex Energy Co. has contracted H&R Enterprises (H&R) to perform site assessment and remediation services at the above-referenced location. The results of our site assessment and remediation activities are contained herein.

### **Site Information**

The Cottonberry 20 Federal 1H, 5H-6H is located approximately 19.1 miles South of Carlsbad, New Mexico. The legal location for this release is Unit Letter D, Section 20, Township 25 South and Range 27 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.12002 North and -104.21838 West. Site plans are presented in [Appendix I](#).

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of Reagan Upton association, 0 to 9 percent slopes. The referenced soil data is attached in [Appendix II](#). Drainage courses in this area are typically dry. The project site is located in a high Karst potential area (Karst Map, [Appendix I](#)).

## Groundwater and Site Characterization

The New Mexico Office of the State Engineer web site indicates that the nearest reported depth to groundwater is 20-feet below ground surface (BGS). See [Appendix II](#) for the referenced groundwater data.

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

<b>Approximate Depth to Groundwater</b>	<b>20 Feet/BGS</b>
---	--------------------

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

As this is a high Karst area as well as being in an area with a depth to groundwater of less than 50-feet BGS, the closure criteria for this site is as follows:

Table I			
Closure Criteria for Soils Impacted by a Release			
Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/l TDS	Constituent	Method*	Limit**
≤ 50 feet	Chloride **	EPA 300.0 or SM4500 CIB	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

### Incident Description

On May 10, 2022, a Kimray control valve washed downstream of the plunger lift system resulting in 75 barrels (bbls) of produced fluid spilling into the cellar, filling it up, and spreading a short way onto the location. 70 bbls of spilled fluid was recovered by a vacuum truck. The breakdown of fluids are as follows. 50 bbls of produced water (47 bbls recovered) and 25 bbls of crude oil (23 bbls recovered).

## Site Assessment and Remediation Activities

On July 18, 2022, H&R mobilized personnel to begin site assessment and sampling activities of the location. Grab samples were collected by way of test trenching the release area between and around the well heads. Grab samples collected were transported to Cardinal Laboratory for analysis. The results are presented in the following data table. Initial site assessment test trench locations are illustrated on Delineation Trench Map, [Appendix I](#). Before, during, and after photographs of the location are attached in [Appendix IV](#). Complete laboratory reports can be found in [Appendix V](#).

Table 1: Initial Soil Samples Analysis

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	CI mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg	100 mg/kg			100 mg/kg	600 mg/kg
DT-1	7/18/2022	0-1'	ND	ND	ND	30.1	ND	30.1	1070
		2'	ND	ND	ND	ND	ND	0	208
		3'	ND	ND	ND	ND	ND	0	96
		4'	ND	ND	ND	ND	ND	0	48
DT-2	7/18/2022	0-1'	ND	ND	19.3	1050	196	1265.3	560
		2'	ND	ND	ND	49.7	23.7	73.4	256
		3'	ND	ND	ND	ND	ND	0	112
		4'	ND	ND	ND	ND	ND	0	112
DT-3	7/18/2022	0-1'	ND	ND	ND	4360	1700	6060	2440
		2'	ND	ND	ND	24.5	30	54.5	272
		3'	ND	ND	ND	ND	ND	0	320
		4'	ND	ND	ND	ND	ND	0	32
DT-4	7/18/2022	0-1'	ND	ND	ND	881	387	1268	944
		2'	ND	ND	ND	14.5	17	31.5	96
		3'	ND	ND	ND	ND	ND	0	112
		4'	ND	ND	ND	ND	ND	0	32
DT-5	7/18/2022	0-1'	0.496	ND	61.3	5470	1850	7381.3	1410
		2'	ND	ND	ND	12.8	ND	12.8	448
		3'	ND	ND	ND	ND	ND	0	208
		4'	ND	ND	ND	ND	ND	0	176
ND = Analyte Not Detected DT = Delineation Trench									

Based on the results of our site assessment and upon client authorization, excavation activities of the impacted area began. A hydrovac was utilized to clean the wellhead and the concrete bottomed cellar. Confirmation samples were collected to confirm that NMOCD closure criteria had been met, the results of which can be found in the following data table. Confirmation sample locations and excavation dimensions can be found on Confirmation Sample Map in [Appendix I](#). Complete laboratory reports are attached in [Appendix V](#).

Table 2: Confirmation Soil Sample Analysis

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg	100 mg/kg			100 mg/kg	600 mg/kg
S-1	7/29/2022	3'	ND	ND	ND	ND	ND	0	60.3
S-2	7/29/2022	3'	0.0163	ND	ND	ND	ND	0	299
S-3	7/29/2022	3'	ND	ND	ND	ND	ND	0	294
S-4	7/29/2022	3'	ND	ND	ND	ND	ND	0	73.4
S-5	7/29/2022	3'	ND	ND	ND	ND	ND	0	282
S-6	7/29/2022	3'	ND	ND	ND	ND	ND	0	46.9
S-7	7/29/2022	3'	ND	ND	ND	ND	ND	0	84.6
S-8	7/29/2022	3'	ND	ND	ND	ND	ND	0	96.9
S-9	7/29/2022	3'	ND	ND	ND	ND	ND	0	107
S-10	7/29/2022	3'	ND	ND	ND	ND	ND	0	83.6
S-11	7/29/2022	3'	ND	ND	ND	ND	ND	0	63.5
S-12	7/29/2022	3'	ND	ND	ND	ND	ND	0	119
S-13	7/29/2022	3'	ND	ND	ND	ND	ND	0	20.4
S-14	7/29/2022	3'	ND	ND	ND	ND	ND	0	88.9
SW-1	7/29/2022	3'	ND	ND	ND	ND	ND	0	309
SW-2	7/29/2022	3'	ND	ND	ND	ND	ND	0	135
SW-3	7/29/2022	3'	ND	ND	ND	ND	ND	0	78.1
SW-4	7/29/2022	3'	ND	ND	ND	ND	ND	0	64.3
BG-1	7/29/2022	3'	ND	ND	ND	ND	ND	0	10.2
BG-2	7/29/2022	3'	ND	ND	ND	ND	ND	0	7.53
BG-3	7/29/2022	3'	ND	ND	ND	ND	ND	0	6.03
BG-4	7/29/2022	3'	ND	ND	ND	ND	ND	0	16.9

ND = Analyte Not Detected SW = Sidewall BG = Background

## Remedial Actions

- The impacted area was excavated to a total depth of 3-feet BGS.
- Composite confirmation samples were obtained from the sidewalls and bottoms of the excavated area to verify that all contaminants above closure criteria had been removed.
- All the excavated material (412yds) was hauled to Lea Land, a NMOCD approved solid waste disposal facility.
- The excavated areas on the well pad were backfilled with new caliche at depth and brought to grade, machine compacted and contoured to match the surrounding location.
- The Final C-141 formally documenting the remedial actions is attached in [Appendix III](#).



## Closure

Based on the site assessment, remedial actions and confirmation sampling results completed for this project, on behalf of Cimarex Energy Co. we request that no further actions be required, and that closure of this incident be granted.

Should you have any questions or if further information is required, please do not hesitate to contact our me at 575-909-0326.

Respectfully submitted,

H&R Enterprises, LLC

A handwritten signature in black ink, appearing to read "Michael Collier".

Michael Collier  
Environmental Project Manager

### Attachments:

Appendix I Site Maps

Appendix II Soil Survey, Groundwater Data, FEMA Flood Zone Map

Appendix III Initial and Final C-141, NMOCD Correspondence

Appendix IV Photographic Documentation

Appendix V Laboratory Data

# **APPENDIX I**

## **SITE MAPS**

### **KARST MAP**

### **TOPOGRAPHIC MAP**

### **LOCATOR MAP**

# Cottonberry 20 Federal 1H,5H-6H

Cimarex Energy Co.  
Incident# nAPP2213171033  
Eddy County, NM  
Delineation Trench Map

## Legend

▣ Delineation Trench

DT\_3

DT\_2

DT\_5

DT\_4

DT\_1






60 ft

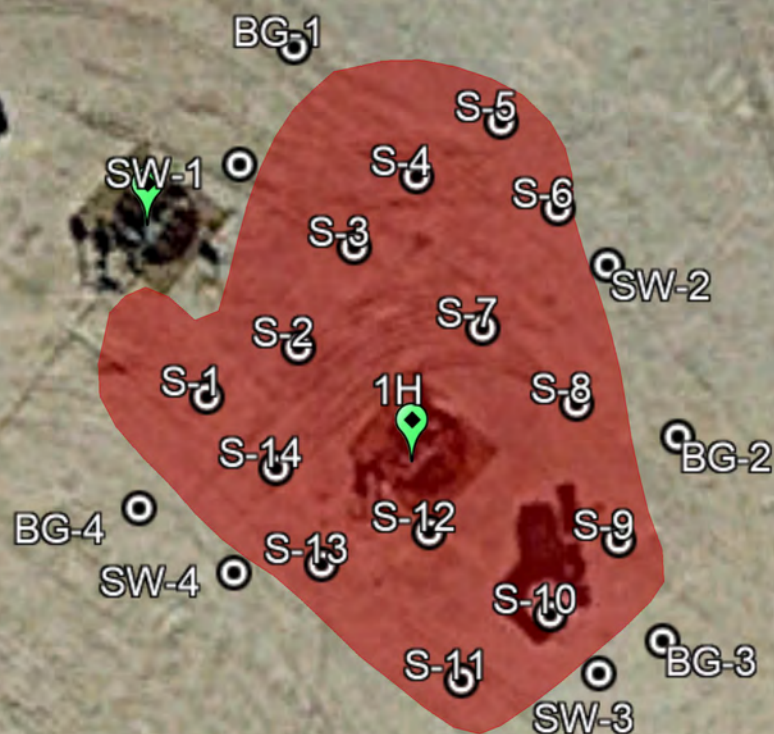


# Cottonberry 20 Federal 1H,5H-6H

Cimarex Energy Co.  
Incident# nAPP2213171033  
Eddy County, NM  
Confirmation Sample Map

## Legend

-  1H Wellhead/Cellar
-  2' Excavation
-  Confirmation Sample







80 ft

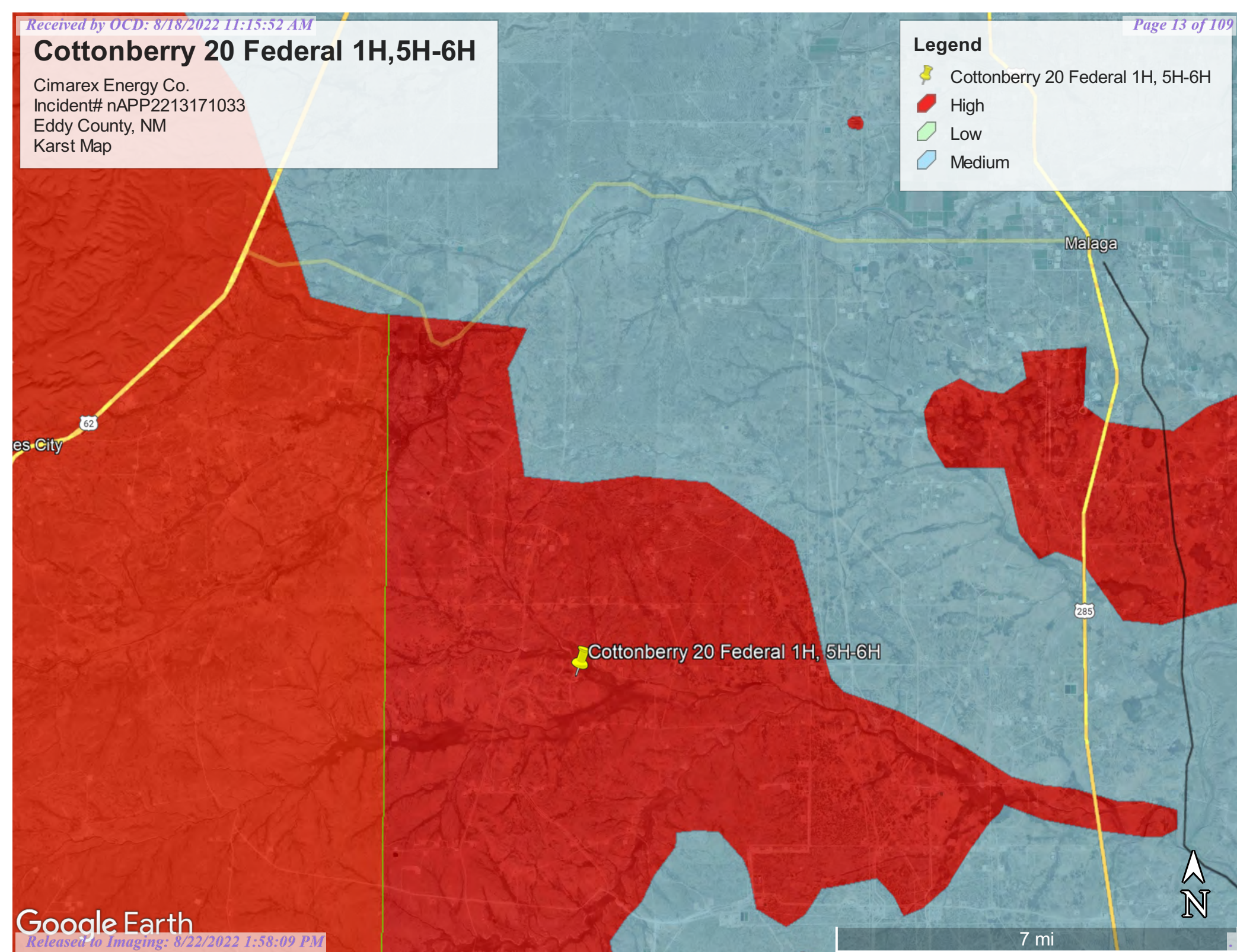


# Cottonberry 20 Federal 1H,5H-6H

Cimarex Energy Co.  
Incident# nAPP2213171033  
Eddy County, NM  
Karst Map

## Legend

-  Cottonberry 20 Federal 1H, 5H-6H
-  High
-  Low
-  Medium




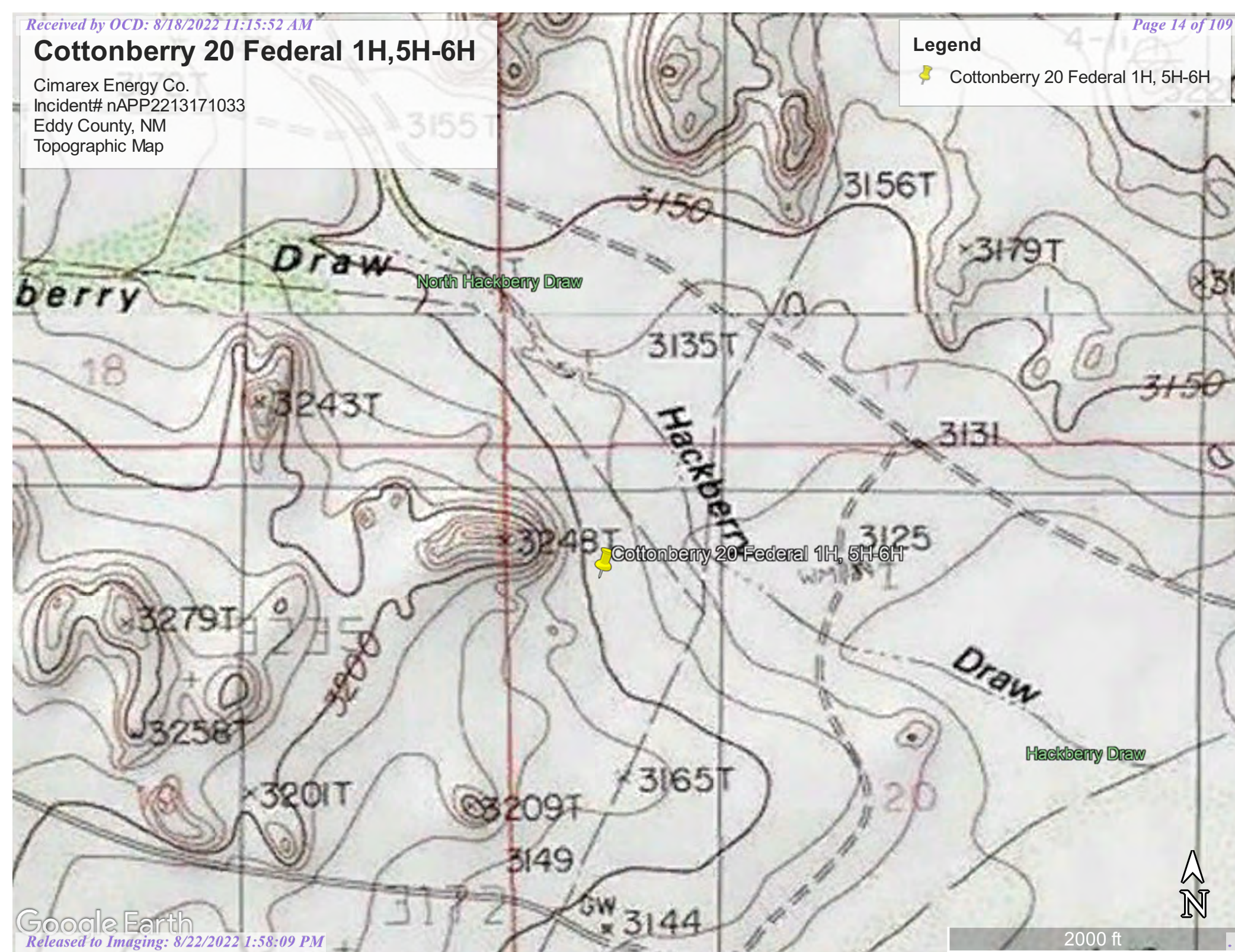


# Cottonberry 20 Federal 1H,5H-6H

Cimarex Energy Co.  
Incident# nAPP2213171033  
Eddy County, NM  
Topographic Map

## Legend

 Cottonberry 20 Federal 1H, 5H-6H




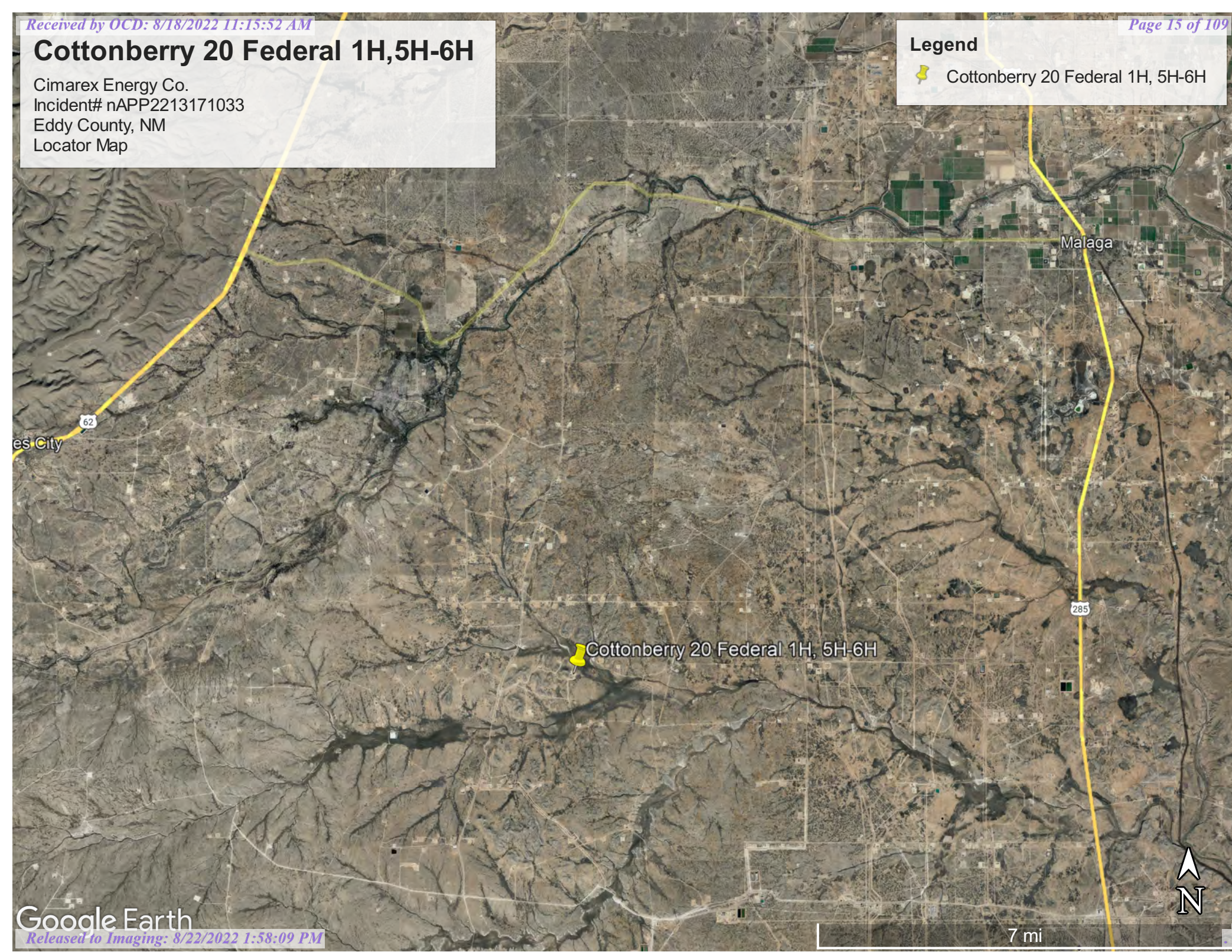


# Cottonberry 20 Federal 1H,5H-6H

Cimarex Energy Co.  
Incident# nAPP2213171033  
Eddy County, NM  
Locator Map

## Legend

 Cottonberry 20 Federal 1H, 5H-6H





## **APPENDIX II**

### **GROUNDWATER DATA**

### **SOIL SURVEY**

### **FEMA FLOOD ZONE**





# 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	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
<a href="#">C_03261 POD1</a>		CUB	ED	3	2	1	20	25S	27E	574007	3554006*	307	351		
<a href="#">C_03654 POD1</a>		CUB	ED	2	3	1	24	25S	26E	570654	3553773	3053			
<a href="#">C_02221</a>		CUB	ED	4	3	2	25	25S	26E	571412	3551961*	3068	35		
<a href="#">C_01013</a>		C	ED			4	25	25S	26E	571505	3551456*	3364	245		
<a href="#">C_04078 POD1</a>		CUB	ED	3	4	1	33	25S	27E	575667	3550363	4140	157	20	137
<a href="#">C_03262 POD1</a>		CUB	ED	2	1	2	22	25S	27E	577837	3554244*	4144	75		
<a href="#">C_04079 POD1</a>		CUB	ED	1	2	3	33	25S	27E	575658	3550092	4377	226	20	206
<a href="#">C_02220</a>		CUB	ED	3	1	2	26	25S	26E	569598	3552352*	4422	35		
<a href="#">C_02588</a>		C	ED	3	4	3	33	25S	27E	575645	3549575*	4840	81	19	62

Average Depth to Water: **19 feet**

Minimum Depth: **19 feet**

Maximum Depth: **20 feet**

**Record Count:** 9

**Basin/County Search:**

**County:** Eddy

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

**Easting (X):** 573699

**Northing (Y):** 3554006.83

**Radius:** 5000

\*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.

8/5/22 10:11 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



# New Mexico Office of the State Engineer

## Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)  
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	C 04078 POD1	3	4	1	33	25S	27E	575667	3550363

<b>Driller License:</b>	1690	<b>Driller Company:</b>	VISION RESOURCES, INC	
<b>Driller Name:</b>	JASON MALEY			
<b>Drill Start Date:</b>	05/23/2018	<b>Drill Finish Date:</b>	05/24/2018	<b>Plug Date:</b>
<b>Log File Date:</b>	06/25/2018	<b>PCW Rev Date:</b>		<b>Source:</b> Shallow
<b>Pump Type:</b>		<b>Pipe Discharge Size:</b>		<b>Estimated Yield:</b> 90 GPM
<b>Casing Size:</b>	6.00	<b>Depth Well:</b>	157 feet	<b>Depth Water:</b> 20 feet

Water Bearing Stratifications:	Top	Bottom	Description
	0	35	Shale/Mudstone/Siltstone
	35	85	Sandstone/Gravel/Conglomerate
	85	110	Sandstone/Gravel/Conglomerate
	110	150	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	38	157

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.

8/5/22 10:10 AM

POINT OF DIVERSION SUMMARY

Map Unit Description: Reagan-Upton association, 0 to 9 percent slopes---Eddy Area, New Mexico

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## Eddy Area, New Mexico

### RE—Reagan-Upton association, 0 to 9 percent slopes

#### Map Unit Setting

*National map unit symbol:* 1w5d

*Elevation:* 1,100 to 5,400 feet

*Mean annual precipitation:* 6 to 14 inches

*Mean annual air temperature:* 60 to 64 degrees F

*Frost-free period:* 180 to 240 days

*Farmland classification:* Farmland of statewide importance

#### Map Unit Composition

*Reagan and similar soils:* 70 percent

*Upton and similar soils:* 25 percent

*Minor components:* 5 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Reagan

##### Setting

*Landform:* Fan remnants, alluvial fans

*Landform position (three-dimensional):* Rise

*Down-slope shape:* Convex, linear

*Across-slope shape:* Linear

*Parent material:* Alluvium and/or eolian deposits

##### Typical profile

*H1 - 0 to 8 inches:* loam

*H2 - 8 to 60 inches:* loam

##### Properties and qualities

*Slope:* 0 to 3 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Well drained

*Runoff class:* Low

*Capacity of the most limiting layer to transmit water*

*(Ksat):* Moderately high to high (0.60 to 2.00 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 40 percent

*Maximum salinity:* Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)

*Sodium adsorption ratio, maximum:* 1.0

*Available water supply, 0 to 60 inches:* Moderate (about 8.2 inches)

##### Interpretive groups

*Land capability classification (irrigated):* 2e

*Land capability classification (nonirrigated):* 6e

Map Unit Description: Reagan-Upton association, 0 to 9 percent slopes---Eddy Area, New Mexico

---

*Hydrologic Soil Group:* B  
*Ecological site:* R070DY153NM - Loamy  
*Hydric soil rating:* No

### Description of Upton

#### Setting

*Landform:* Ridges, fans  
*Landform position (three-dimensional):* Side slope, rise  
*Down-slope shape:* Convex  
*Across-slope shape:* Convex  
*Parent material:* Residuum weathered from limestone

#### Typical profile

*H1 - 0 to 9 inches:* gravelly loam  
*H2 - 9 to 13 inches:* gravelly loam  
*H3 - 13 to 21 inches:* cemented  
*H4 - 21 to 60 inches:* very gravelly loam

#### Properties and qualities

*Slope:* 0 to 9 percent  
*Depth to restrictive feature:* 7 to 20 inches to petrocalcic  
*Drainage class:* Well drained  
*Runoff class:* High  
*Capacity of the most limiting layer to transmit water (Ksat):* Low to moderately high (0.01 to 0.60 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 75 percent  
*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 1.0  
*Available water supply, 0 to 60 inches:* Very low (about 1.4 inches)

#### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 7s  
*Hydrologic Soil Group:* D  
*Ecological site:* R070DY159NM - Shallow Loamy  
*Hydric soil rating:* No

### Minor Components

#### Atoka

*Percent of map unit:* 3 percent  
*Ecological site:* R042XC007NM - Loamy  
*Hydric soil rating:* No

#### Pima

*Percent of map unit:* 2 percent  
*Ecological site:* R042XC017NM - Bottomland

Map Unit Description: Reagan-Upton association, 0 to 9 percent slopes---Eddy Area, New Mexico

---

*Hydric soil rating:* No

## Data Source Information

Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 17, Sep 12, 2021

# National Flood Hazard Layer FIRMette



104°13'26"W 32°7'27"N



## Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 8/5/2022 at 12:54 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

0 250 500 1,000 1,500 2,000 Feet 1:6,000

104°12'49"W 32°6'57"N

Released to Imaging: 8/22/2022 4:38:09 PM

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

# **APPENDIX III**

**INITIAL C-141**

**FINAL C-141**

**NMOCD CORRESPONDENCE**



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

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

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

Incident ID	nAPP2213171033
District RP	
Facility ID	fAPP2201327731
Application ID	

## Release Notification

### Responsible Party

Responsible Party: Cimarex Energy Co.	OGRID: 215099
Contact Name: Laci Luig	Contact Telephone: (432) 571-7800
Contact email: laci.luig@coterra.com	Incident # (assigned by OCD) nAPP2213171033
Contact mailing address: 600 N Marienfeld Street, Ste. 600 Midland, TX 79701	

### Location of Release Source

Latitude 32.12002 \_\_\_\_\_ Longitude -104.21838 \_\_\_\_\_  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Cottonberry 20 Federal 1H,5H-6H	Site Type: Battery
Date Release Discovered: 5/10/2022	API# (if applicable)

Unit Letter	Section	Township	Range	County
D	20	25S	27E	Eddy

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

### Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 25	Volume Recovered (bbls) 23
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 50	Volume Recovered (bbls) 47
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Equipment Failure

A Kimray control valve washed downstream of the plunger lift system resulting in 75 bbls of produced fluid spilling into the cellar filling it up and spreading a short ways onto location. 70 barrels of spilled fluid was recovered by a vacuum tanker. We will begin delineation and remediation as soon as an environmental company becomes available. The breakdown of constituents was 50 barrels of water and 25 barrels of oil.

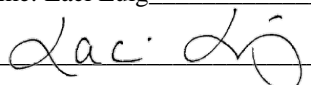


Incident ID	nAPP2213171033
District RP	
Facility ID	fAPP2201327731
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Total release is greater than 25 barrels.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? By: Tell Montoya To: OCD Enviro, BLM By: Email	

### Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: Laci Luig	Title: ESH Specialist
Signature: 	Date: 5/11/2022
email: laci.luig@coterra.com	Telephone: (432) 208-3035
<b><u>OCD Only</u></b>	
Received by: Jocelyn Harimon	Date: 08/18/2022

Incident ID	nAPP2213171033
District RP	
Facility ID	fAPP2201327731
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?	20' (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 checked="" type="checkbox"/> Yes <input 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.

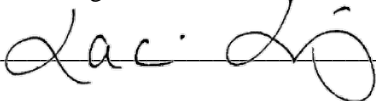
State of New Mexico  
Oil Conservation Division

Page 4

Incident ID	nAPP2213171033
District RP	
Facility ID	fAPP2201327731
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: Laci Luig\_\_\_\_\_ Title: ESH Specialist\_\_\_\_\_

Signature: \_\_\_\_\_ Date: 8/18/2022\_\_\_\_\_

email: laci.luig@coterra.com\_\_\_\_\_ Telephone: (432) 208-3035\_\_\_\_\_

**OCD Only**Received by: Jocelyn Harimon\_\_\_\_\_ Date: 08/18/2022\_\_\_\_\_

Incident ID	nAPP2213171033
District RP	
Facility ID	fAPP2201327731
Application ID	

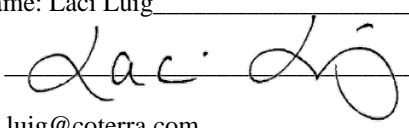
## Closure

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: Laci Luig \_\_\_\_\_ Title: ESH Specialist \_\_\_\_\_  
Signature:  \_\_\_\_\_ Date: 8/18/2022 \_\_\_\_\_  
email: laci.luig@coterra.com \_\_\_\_\_ Telephone: (432) 208-3035 \_\_\_\_\_

**OCD Only**

Received by: Jocelyn Harimon \_\_\_\_\_ Date: 08/18/2022 \_\_\_\_\_

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: \_\_\_\_\_

**From:** [Laci Luig](#)  
**To:** [NMOCD Spill Notifications](#); [BLM NM CFO Spill](#)  
**Cc:** [Jim Hawley](#); [Michael Collier](#)  
**Subject:** nAPP2213171033 Cottonberry 20 Federal 1H,5H-6H confirmation sampling  
**Date:** Tuesday, July 12, 2022 5:46:35 PM

---

This email serves as notification for confirmation sampling on the Cimarex – Cottonberry 20 Federal 1H,5H-6H. Excavation is scheduled to begin Thursday, July 14<sup>th</sup> and sampling is scheduled to begin as early as Monday, July 18<sup>th</sup> and will be collected by H&R Enterprises.

Thank you,



**Laci Luig** | Environmental Safety & Health Specialist  
T: 432.571.7810 | M: 432.208.3035 | [laci.luig@coterra.com](mailto:laci.luig@coterra.com) | [www.coterra.com](http://www.coterra.com)  
Coterra Energy Inc. | 600 N. Marienfeld Street, Suite 600 | Midland, TX 79701

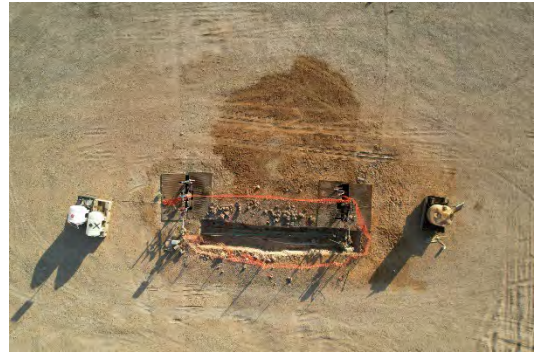
Coterra Energy Inc. is the result of the merger of Cimarex Energy Co. and Cabot Oil & Gas Corporation on October 1, 2021.

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# **APPENDIX IV**

## **PHOTOGRAPHIC DOCUMENTATION**

PHOTOGRAPHIC DOCUMENTATION



# **APPENDIX V**

## **LABORATORY REPORTS**





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

July 21, 2022

MICHAEL COLLIER  
H & R ENTERPRISES  
1010 GAMBLIN ROAD  
HOBBS, NM 88240

RE: COTTONBERRY 20 FED 1H, 5H-6H (COTTONBERRY 20)

Enclosed are the results of analyses for samples received by the laboratory on 07/19/22 13:27.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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 with a large, stylized 'C' at the beginning.

Celey D. Keene  
Lab Director/Quality Manager



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

**Analytical Results For:**

H & R ENTERPRISES  
 MICHAEL COLLIER  
 1010 GAMBLIN ROAD  
 HOBBS NM, 88240  
 Fax To: NONE

Received:	07/19/2022	Sampling Date:	07/18/2022
Reported:	07/21/2022	Sampling Type:	Soil
Project Name:	COTTONBERRY 20 FED 1H, 5H-6H (COT	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

**Sample ID: DT - 1 0-1' (H223130-01)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/20/2022	ND	2.12	106	2.00	1.97		
Toluene*	<0.050	0.050	07/20/2022	ND	2.19	109	2.00	2.61		
Ethylbenzene*	<0.050	0.050	07/20/2022	ND	2.22	111	2.00	2.63		
Total Xylenes*	<0.150	0.150	07/20/2022	ND	6.85	114	6.00	2.22		
Total BTEX	<0.300	0.300	07/20/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1070	16.0	07/20/2022	ND	432	108	400	3.64		

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	07/19/2022	ND	195	97.6	200	17.8	
DRO >C10-C28*	30.1	10.0	07/19/2022	ND	174	86.9	200	25.3	
EXT DRO >C28-C36	<10.0	10.0	07/19/2022	ND					

Surrogate: 1-Chlorooctane 99.6 % 43-149

Surrogate: 1-Chlorooctadecane 104 % 42.5-161

Cardinal Laboratories

\*=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:**

H & R ENTERPRISES  
 MICHAEL COLLIER  
 1010 GAMBLIN ROAD  
 HOBBS NM, 88240  
 Fax To: NONE

Received:	07/19/2022	Sampling Date:	07/18/2022
Reported:	07/21/2022	Sampling Type:	Soil
Project Name:	COTTONBERRY 20 FED 1H, 5H-6H (COT	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

**Sample ID: DT - 1 2' (H223130-02)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/20/2022	ND	2.12	106	2.00	1.97		
Toluene*	<0.050	0.050	07/20/2022	ND	2.19	109	2.00	2.61		
Ethylbenzene*	<0.050	0.050	07/20/2022	ND	2.22	111	2.00	2.63		
Total Xylenes*	<0.150	0.150	07/20/2022	ND	6.85	114	6.00	2.22		
Total BTEx	<0.300	0.300	07/20/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	07/20/2022	ND	432	108	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	07/20/2022	ND	195	97.6	200	17.8	
DRO >C10-C28*	<10.0	10.0	07/20/2022	ND	174	86.9	200	25.3	
EXT DRO >C28-C36	<10.0	10.0	07/20/2022	ND					

Surrogate: 1-Chlorooctane 79.5 % 43-149

Surrogate: 1-Chlorooctadecane 81.4 % 42.5-161

Cardinal Laboratories

\*=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:**

H & R ENTERPRISES  
 MICHAEL COLLIER  
 1010 GAMBLIN ROAD  
 HOBBS NM, 88240  
 Fax To: NONE

Received:	07/19/2022	Sampling Date:	07/18/2022
Reported:	07/21/2022	Sampling Type:	Soil
Project Name:	COTTONBERRY 20 FED 1H, 5H-6H (COT	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

**Sample ID: DT - 1 3' (H223130-03)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/20/2022	ND	2.12	106	2.00	1.97		
Toluene*	<0.050	0.050	07/20/2022	ND	2.19	109	2.00	2.61		
Ethylbenzene*	<0.050	0.050	07/20/2022	ND	2.22	111	2.00	2.63		
Total Xylenes*	<0.150	0.150	07/20/2022	ND	6.85	114	6.00	2.22		
Total BTEx	<0.300	0.300	07/20/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	07/20/2022	ND	432	108	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	07/20/2022	ND	195	97.6	200	17.8	
DRO >C10-C28*	<10.0	10.0	07/20/2022	ND	174	86.9	200	25.3	
EXT DRO >C28-C36	<10.0	10.0	07/20/2022	ND					

Surrogate: 1-Chlorooctane 79.0 % 43-149

Surrogate: 1-Chlorooctadecane 83.4 % 42.5-161

Cardinal Laboratories

\*=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:**

H & R ENTERPRISES  
 MICHAEL COLLIER  
 1010 GAMBLIN ROAD  
 HOBBS NM, 88240  
 Fax To: NONE

Received:	07/19/2022	Sampling Date:	07/18/2022
Reported:	07/21/2022	Sampling Type:	Soil
Project Name:	COTTONBERRY 20 FED 1H, 5H-6H (COT	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

**Sample ID: DT - 1 4' (H223130-04)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/20/2022	ND	2.12	106	2.00	1.97		
Toluene*	<0.050	0.050	07/20/2022	ND	2.19	109	2.00	2.61		
Ethylbenzene*	<0.050	0.050	07/20/2022	ND	2.22	111	2.00	2.63		
Total Xylenes*	<0.150	0.150	07/20/2022	ND	6.85	114	6.00	2.22		
Total BTX	<0.300	0.300	07/20/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 69.9-140

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	07/20/2022	ND	432	108	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	07/20/2022	ND	195	97.6	200	17.8	
DRO >C10-C28*	<10.0	10.0	07/20/2022	ND	174	86.9	200	25.3	
EXT DRO >C28-C36	<10.0	10.0	07/20/2022	ND					

Surrogate: 1-Chlorooctane 109 % 43-149

Surrogate: 1-Chlorooctadecane 112 % 42.5-161

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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:**

H & R ENTERPRISES  
 MICHAEL COLLIER  
 1010 GAMBLIN ROAD  
 HOBBS NM, 88240  
 Fax To: NONE

Received:	07/19/2022	Sampling Date:	07/18/2022
Reported:	07/21/2022	Sampling Type:	Soil
Project Name:	COTTONBERRY 20 FED 1H, 5H-6H (COT	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

**Sample ID: DT - 2 0-1' (H223130-05)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/20/2022	ND	2.12	106	2.00	1.97	
Toluene*	<0.050	0.050	07/20/2022	ND	2.19	109	2.00	2.61	
Ethylbenzene*	<0.050	0.050	07/20/2022	ND	2.22	111	2.00	2.63	
Total Xylenes*	<0.150	0.150	07/20/2022	ND	6.85	114	6.00	2.22	
Total BTEx	<0.300	0.300	07/20/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 132 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	560	16.0	07/20/2022	ND	432	108	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*	19.3	10.0	07/20/2022	ND	195	97.6	200	17.8	
DRO >C10-C28*	1050	10.0	07/20/2022	ND	174	86.9	200	25.3	
EXT DRO >C28-C36	196	10.0	07/20/2022	ND					

Surrogate: 1-Chlorooctane 92.6 % 43-149

Surrogate: 1-Chlorooctadecane 117 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

H & R ENTERPRISES  
 MICHAEL COLLIER  
 1010 GAMBLIN ROAD  
 HOBBS NM, 88240  
 Fax To: NONE

Received:	07/19/2022	Sampling Date:	07/18/2022
Reported:	07/21/2022	Sampling Type:	Soil
Project Name:	COTTONBERRY 20 FED 1H, 5H-6H (COT	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

**Sample ID: DT - 2 2' (H223130-06)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/20/2022	ND	2.12	106	2.00	1.97		
Toluene*	<0.050	0.050	07/20/2022	ND	2.19	109	2.00	2.61		
Ethylbenzene*	<0.050	0.050	07/20/2022	ND	2.22	111	2.00	2.63		
Total Xylenes*	<0.150	0.150	07/20/2022	ND	6.85	114	6.00	2.22		
Total BTEx	<0.300	0.300	07/20/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	07/20/2022	ND	432	108	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	07/20/2022	ND	195	97.6	200	17.8	
DRO >C10-C28*	49.7	10.0	07/20/2022	ND	174	86.9	200	25.3	
EXT DRO >C28-C36	23.7	10.0	07/20/2022	ND					

Surrogate: 1-Chlorooctane 82.4 % 43-149

Surrogate: 1-Chlorooctadecane 87.9 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

H & R ENTERPRISES  
 MICHAEL COLLIER  
 1010 GAMBLIN ROAD  
 HOBBS NM, 88240  
 Fax To: NONE

Received:	07/19/2022	Sampling Date:	07/18/2022
Reported:	07/21/2022	Sampling Type:	Soil
Project Name:	COTTONBERRY 20 FED 1H, 5H-6H (COT	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

**Sample ID: DT - 2 3' (H223130-07)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/20/2022	ND	2.12	106	2.00	1.97	
Toluene*	<0.050	0.050	07/20/2022	ND	2.19	109	2.00	2.61	
Ethylbenzene*	<0.050	0.050	07/20/2022	ND	2.22	111	2.00	2.63	
Total Xylenes*	<0.150	0.150	07/20/2022	ND	6.85	114	6.00	2.22	
Total BTX	<0.300	0.300	07/20/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	07/20/2022	ND	432	108	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	07/20/2022	ND	195	97.6	200	17.8	
DRO >C10-C28*	<10.0	10.0	07/20/2022	ND	174	86.9	200	25.3	
EXT DRO >C28-C36	<10.0	10.0	07/20/2022	ND					

Surrogate: 1-Chlorooctane 82.6 % 43-149

Surrogate: 1-Chlorooctadecane 84.3 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

H & R ENTERPRISES  
 MICHAEL COLLIER  
 1010 GAMBLIN ROAD  
 HOBBS NM, 88240  
 Fax To: NONE

Received:	07/19/2022	Sampling Date:	07/18/2022
Reported:	07/21/2022	Sampling Type:	Soil
Project Name:	COTTONBERRY 20 FED 1H, 5H-6H (COT	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

**Sample ID: DT - 2 4' (H223130-08)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/20/2022	ND	2.12	106	2.00	1.97		
Toluene*	<0.050	0.050	07/20/2022	ND	2.19	109	2.00	2.61		
Ethylbenzene*	<0.050	0.050	07/20/2022	ND	2.22	111	2.00	2.63		
Total Xylenes*	<0.150	0.150	07/20/2022	ND	6.85	114	6.00	2.22		
Total BTX	<0.300	0.300	07/20/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	07/20/2022	ND	432	108	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	07/20/2022	ND	195	97.6	200	17.8	
DRO >C10-C28*	<10.0	10.0	07/20/2022	ND	174	86.9	200	25.3	
EXT DRO >C28-C36	<10.0	10.0	07/20/2022	ND					

Surrogate: 1-Chlorooctane 74.6 % 43-149

Surrogate: 1-Chlorooctadecane 75.1 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

H & R ENTERPRISES  
 MICHAEL COLLIER  
 1010 GAMBLIN ROAD  
 HOBBS NM, 88240  
 Fax To: NONE

Received:	07/19/2022	Sampling Date:	07/18/2022
Reported:	07/21/2022	Sampling Type:	Soil
Project Name:	COTTONBERRY 20 FED 1H, 5H-6H (COT	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

**Sample ID: DT - 3 0-1' (H223130-09)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/20/2022	ND	2.12	106	2.00	1.97		
Toluene*	<0.050	0.050	07/20/2022	ND	2.19	109	2.00	2.61		
Ethylbenzene*	<0.050	0.050	07/20/2022	ND	2.22	111	2.00	2.63		
Total Xylenes*	<0.150	0.150	07/20/2022	ND	6.85	114	6.00	2.22		
Total BTEx	<0.300	0.300	07/20/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2440	16.0	07/20/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/20/2022	ND	195	97.6	200	17.8	
DRO >C10-C28*	4360	10.0	07/20/2022	ND	174	86.9	200	25.3	
EXT DRO >C28-C36	1700	10.0	07/20/2022	ND					

Surrogate: 1-Chlorooctane 66.9 % 43-149

Surrogate: 1-Chlorooctadecane 574 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

H & R ENTERPRISES  
 MICHAEL COLLIER  
 1010 GAMBLIN ROAD  
 HOBBS NM, 88240  
 Fax To: NONE

Received:	07/19/2022	Sampling Date:	07/18/2022
Reported:	07/21/2022	Sampling Type:	Soil
Project Name:	COTTONBERRY 20 FED 1H, 5H-6H (COT	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

**Sample ID: DT - 3 2' (H223130-10)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/20/2022	ND	2.12	106	2.00	1.97		
Toluene*	<0.050	0.050	07/20/2022	ND	2.19	109	2.00	2.61		
Ethylbenzene*	<0.050	0.050	07/20/2022	ND	2.22	111	2.00	2.63		
Total Xylenes*	<0.150	0.150	07/20/2022	ND	6.85	114	6.00	2.22		
Total BTEx	<0.300	0.300	07/20/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	07/20/2022	ND	432	108	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	07/20/2022	ND	195	97.6	200	17.8	
DRO >C10-C28*	24.5	10.0	07/20/2022	ND	174	86.9	200	25.3	
EXT DRO >C28-C36	30.0	10.0	07/20/2022	ND					

Surrogate: 1-Chlorooctane 96.0 % 43-149

Surrogate: 1-Chlorooctadecane 98.5 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

H & R ENTERPRISES  
 MICHAEL COLLIER  
 1010 GAMBLIN ROAD  
 HOBBS NM, 88240  
 Fax To: NONE

Received:	07/19/2022	Sampling Date:	07/18/2022
Reported:	07/21/2022	Sampling Type:	Soil
Project Name:	COTTONBERRY 20 FED 1H, 5H-6H (COT	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

**Sample ID: DT - 3 3' (H223130-11)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/20/2022	ND	2.12	106	2.00	1.97		
Toluene*	<0.050	0.050	07/20/2022	ND	2.19	109	2.00	2.61		
Ethylbenzene*	<0.050	0.050	07/20/2022	ND	2.22	111	2.00	2.63		
Total Xylenes*	<0.150	0.150	07/20/2022	ND	6.85	114	6.00	2.22		
Total BTX	<0.300	0.300	07/20/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	07/20/2022	ND	432	108	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	07/20/2022	ND	195	97.6	200	17.8	
DRO >C10-C28*	<10.0	10.0	07/20/2022	ND	174	86.9	200	25.3	
EXT DRO >C28-C36	<10.0	10.0	07/20/2022	ND					

Surrogate: 1-Chlorooctane 69.7 % 43-149

Surrogate: 1-Chlorooctadecane 72.6 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

H & R ENTERPRISES  
 MICHAEL COLLIER  
 1010 GAMBLIN ROAD  
 HOBBS NM, 88240  
 Fax To: NONE

Received:	07/19/2022	Sampling Date:	07/18/2022
Reported:	07/21/2022	Sampling Type:	Soil
Project Name:	COTTONBERRY 20 FED 1H, 5H-6H (COT	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

**Sample ID: DT - 3 4' (H223130-12)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/20/2022	ND	2.12	106	2.00	1.97		
Toluene*	<0.050	0.050	07/20/2022	ND	2.19	109	2.00	2.61		
Ethylbenzene*	<0.050	0.050	07/20/2022	ND	2.22	111	2.00	2.63		
Total Xylenes*	<0.150	0.150	07/20/2022	ND	6.85	114	6.00	2.22		
Total BTEx	<0.300	0.300	07/20/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 69.9-140

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	07/20/2022	ND	432	108	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	07/20/2022	ND	195	97.6	200	17.8	
DRO >C10-C28*	<10.0	10.0	07/20/2022	ND	174	86.9	200	25.3	
EXT DRO >C28-C36	<10.0	10.0	07/20/2022	ND					

Surrogate: 1-Chlorooctane 75.9 % 43-149

Surrogate: 1-Chlorooctadecane 78.4 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

H & R ENTERPRISES  
 MICHAEL COLLIER  
 1010 GAMBLIN ROAD  
 HOBBS NM, 88240  
 Fax To: NONE

Received:	07/19/2022	Sampling Date:	07/18/2022
Reported:	07/21/2022	Sampling Type:	Soil
Project Name:	COTTONBERRY 20 FED 1H, 5H-6H (COT	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

**Sample ID: DT - 4 0-1' (H223130-13)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/20/2022	ND	2.12	106	2.00	1.97		
Toluene*	<0.050	0.050	07/20/2022	ND	2.19	109	2.00	2.61		
Ethylbenzene*	<0.050	0.050	07/20/2022	ND	2.22	111	2.00	2.63		
Total Xylenes*	<0.150	0.150	07/20/2022	ND	6.85	114	6.00	2.22		
Total BTX	<0.300	0.300	07/20/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	944	16.0	07/20/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/20/2022	ND	195	97.6	200	17.8	
DRO >C10-C28*	881	10.0	07/20/2022	ND	174	86.9	200	25.3	
EXT DRO >C28-C36	387	10.0	07/20/2022	ND					

Surrogate: 1-Chlorooctane 90.9 % 43-149

Surrogate: 1-Chlorooctadecane 209 % 42.5-161

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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:**

H & R ENTERPRISES  
 MICHAEL COLLIER  
 1010 GAMBLIN ROAD  
 HOBBS NM, 88240  
 Fax To: NONE

Received:	07/19/2022	Sampling Date:	07/18/2022
Reported:	07/21/2022	Sampling Type:	Soil
Project Name:	COTTONBERRY 20 FED 1H, 5H-6H (COT	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

**Sample ID: DT - 4 2' (H223130-14)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/20/2022	ND	2.12	106	2.00	1.97	
Toluene*	<0.050	0.050	07/20/2022	ND	2.19	109	2.00	2.61	
Ethylbenzene*	<0.050	0.050	07/20/2022	ND	2.22	111	2.00	2.63	
Total Xylenes*	<0.150	0.150	07/20/2022	ND	6.85	114	6.00	2.22	
Total BTX	<0.300	0.300	07/20/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/20/2022	ND	432	108	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	07/20/2022	ND	195	97.6	200	17.8	
DRO >C10-C28*	14.5	10.0	07/20/2022	ND	174	86.9	200	25.3	
EXT DRO >C28-C36	17.0	10.0	07/20/2022	ND					

Surrogate: 1-Chlorooctane 80.3 % 43-149

Surrogate: 1-Chlorooctadecane 86.0 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

H & R ENTERPRISES  
 MICHAEL COLLIER  
 1010 GAMBLIN ROAD  
 HOBBS NM, 88240  
 Fax To: NONE

Received:	07/19/2022	Sampling Date:	07/18/2022
Reported:	07/21/2022	Sampling Type:	Soil
Project Name:	COTTONBERRY 20 FED 1H, 5H-6H (COT	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

**Sample ID: DT - 4 3' (H223130-15)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/20/2022	ND	2.12	106	2.00	1.97	
Toluene*	<0.050	0.050	07/20/2022	ND	2.19	109	2.00	2.61	
Ethylbenzene*	<0.050	0.050	07/20/2022	ND	2.22	111	2.00	2.63	
Total Xylenes*	<0.150	0.150	07/20/2022	ND	6.85	114	6.00	2.22	
Total BTX	<0.300	0.300	07/20/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	07/20/2022	ND	432	108	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	07/20/2022	ND	195	97.6	200	17.8	
DRO >C10-C28*	<10.0	10.0	07/20/2022	ND	174	86.9	200	25.3	
EXT DRO >C28-C36	<10.0	10.0	07/20/2022	ND					

Surrogate: 1-Chlorooctane 78.4 % 43-149

Surrogate: 1-Chlorooctadecane 80.5 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

H & R ENTERPRISES  
 MICHAEL COLLIER  
 1010 GAMBLIN ROAD  
 HOBBS NM, 88240  
 Fax To: NONE

Received:	07/19/2022	Sampling Date:	07/18/2022
Reported:	07/21/2022	Sampling Type:	Soil
Project Name:	COTTONBERRY 20 FED 1H, 5H-6H (COT	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

**Sample ID: DT - 4 4' (H223130-16)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/20/2022	ND	2.12	106	2.00	1.97		
Toluene*	<0.050	0.050	07/20/2022	ND	2.19	109	2.00	2.61		
Ethylbenzene*	<0.050	0.050	07/20/2022	ND	2.22	111	2.00	2.63		
Total Xylenes*	<0.150	0.150	07/20/2022	ND	6.85	114	6.00	2.22		
Total BTX	<0.300	0.300	07/20/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 69.9-140

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	07/20/2022	ND	432	108	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	07/20/2022	ND	195	97.6	200	17.8	
DRO >C10-C28*	<10.0	10.0	07/20/2022	ND	174	86.9	200	25.3	
EXT DRO >C28-C36	<10.0	10.0	07/20/2022	ND					

Surrogate: 1-Chlorooctane 71.3 % 43-149

Surrogate: 1-Chlorooctadecane 73.9 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

H & R ENTERPRISES  
 MICHAEL COLLIER  
 1010 GAMBLIN ROAD  
 HOBBS NM, 88240  
 Fax To: NONE

Received:	07/19/2022	Sampling Date:	07/18/2022
Reported:	07/21/2022	Sampling Type:	Soil
Project Name:	COTTONBERRY 20 FED 1H, 5H-6H (COT	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

**Sample ID: DT - 5 0-1' (H223130-17)**

BTX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/20/2022	ND	2.12	106	2.00	1.97	
Toluene*	<0.050	0.050	07/20/2022	ND	2.19	109	2.00	2.61	
Ethylbenzene*	<0.050	0.050	07/20/2022	ND	2.22	111	2.00	2.63	
<b>Total Xylenes*</b>	<b>0.496</b>	0.150	07/20/2022	ND	6.85	114	6.00	2.22	GC-NC1
<b>Total BTX</b>	<b>0.496</b>	0.300	07/20/2022	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 146 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1410</b>	16.0	07/20/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>61.3</b>	10.0	07/20/2022	ND	195	97.6	200	17.8	
<b>DRO &gt;C10-C28*</b>	<b>5470</b>	10.0	07/20/2022	ND	174	86.9	200	25.3	
<b>EXT DRO &gt;C28-C36</b>	<b>1850</b>	10.0	07/20/2022	ND					

Surrogate: 1-Chlorooctane 116 % 43-149

Surrogate: 1-Chlorooctadecane 706 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

H & R ENTERPRISES  
 MICHAEL COLLIER  
 1010 GAMBLIN ROAD  
 HOBBS NM, 88240  
 Fax To: NONE

Received:	07/19/2022	Sampling Date:	07/18/2022
Reported:	07/21/2022	Sampling Type:	Soil
Project Name:	COTTONBERRY 20 FED 1H, 5H-6H (COT	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

**Sample ID: DT - 5 2' (H223130-18)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/20/2022	ND	2.12	106	2.00	1.97		
Toluene*	<0.050	0.050	07/20/2022	ND	2.19	109	2.00	2.61		
Ethylbenzene*	<0.050	0.050	07/20/2022	ND	2.22	111	2.00	2.63		
Total Xylenes*	<0.150	0.150	07/20/2022	ND	6.85	114	6.00	2.22		
Total BTEx	<0.300	0.300	07/20/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	07/20/2022	ND	432	108	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	07/20/2022	ND	233	116	200	21.0	
DRO >C10-C28*	12.8	10.0	07/20/2022	ND	231	115	200	29.3	
EXT DRO >C28-C36	<10.0	10.0	07/20/2022	ND					

Surrogate: 1-Chlorooctane 95.0 % 43-149

Surrogate: 1-Chlorooctadecane 98.8 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

H & R ENTERPRISES  
 MICHAEL COLLIER  
 1010 GAMBLIN ROAD  
 HOBBS NM, 88240  
 Fax To: NONE

Received:	07/19/2022	Sampling Date:	07/18/2022
Reported:	07/21/2022	Sampling Type:	Soil
Project Name:	COTTONBERRY 20 FED 1H, 5H-6H (COT	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

**Sample ID: DT - 5 3' (H223130-19)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/20/2022	ND	2.12	106	2.00	1.97		
Toluene*	<0.050	0.050	07/20/2022	ND	2.19	109	2.00	2.61		
Ethylbenzene*	<0.050	0.050	07/20/2022	ND	2.22	111	2.00	2.63		
Total Xylenes*	<0.150	0.150	07/20/2022	ND	6.85	114	6.00	2.22		
Total BTEx	<0.300	0.300	07/20/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 69.9-140

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	07/20/2022	ND	432	108	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	07/20/2022	ND	233	116	200	21.0	
DRO >C10-C28*	<10.0	10.0	07/20/2022	ND	231	115	200	29.3	
EXT DRO >C28-C36	<10.0	10.0	07/20/2022	ND					

Surrogate: 1-Chlorooctane 81.3 % 43-149

Surrogate: 1-Chlorooctadecane 82.8 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

H & R ENTERPRISES  
 MICHAEL COLLIER  
 1010 GAMBLIN ROAD  
 HOBBS NM, 88240  
 Fax To: NONE

Received:	07/19/2022	Sampling Date:	07/18/2022
Reported:	07/21/2022	Sampling Type:	Soil
Project Name:	COTTONBERRY 20 FED 1H, 5H-6H (COT	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

**Sample ID: DT - 5 4' (H223130-20)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/20/2022	ND	2.12	106	2.00	1.97		
Toluene*	<0.050	0.050	07/20/2022	ND	2.19	109	2.00	2.61		
Ethylbenzene*	<0.050	0.050	07/20/2022	ND	2.22	111	2.00	2.63		
Total Xylenes*	<0.150	0.150	07/20/2022	ND	6.85	114	6.00	2.22		
Total BTEx	<0.300	0.300	07/20/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	07/20/2022	ND	432	108	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	07/20/2022	ND	233	116	200	21.0	
DRO >C10-C28*	<10.0	10.0	07/20/2022	ND	231	115	200	29.3	
EXT DRO >C28-C36	<10.0	10.0	07/20/2022	ND					

Surrogate: 1-Chlorooctane 73.1 % 43-149

Surrogate: 1-Chlorooctadecane 74.1 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-04	The RPD for the BS/BSD was outside of historical limits.
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.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
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

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.

A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager









### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: H&R ENTERPRISES						BILL TO		ANALYSIS REQUEST											
Project Manager: M. COUTER						P.O. #:													
Address:						Company: CLIMARKEX													
City:						Attn: LACI LUIE													
State:						Address:													
Phone #:						City:													
Fax #:						State:													
Project #: Project Owner: CLIMARKEX						Zip:													
Project Name: GUSTON BERRY JO FELD HA, 5H-6H (GUSTON BERRY JO)						Phone #:													
Project Location:						Fax #:													
Sampler Name:						FOR LAB USE ONLY													
Lab I.D.						Sample I.D.													
H223130						(G) RAB OR (C) OMP.													
11 DT-3 3'						# CONTAINERS													
12 DT-3 4'						GROUNDWATER													
13 DT-4 0'-1'						WASTEWATER													
14 DT-4 2'						SOIL													
15 DT-4 3'						OIL													
16 DT-4 4'						SLUDGE													
17 DT-5 0'-1'						OTHER :													
18 DT-5 2'						ACID/BASE:													
19 DT-5 3'						ICE / COOL													
20 DT-5 4'						OTHER :													
DATE 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.						MATRIX		PRESERV.		SAMPLING									
Relinquished By: Mylene						Date: 9-19-22		Received By: Javiera											
Delivered By: (Circle One) 2.80 0-0.6						Sample Condition		CHECKED BY: (Initials)											
Sampler - UPS - Bus - Other: 2.20 #113						Cool Intact Yes No		Yes No											
REMARKS: 48 HR Pk 2012 KUSH						Phone Result: Yes No		Add'l Phone #: Add'l Fax #:											





Environment Testing  
America

## ANALYTICAL REPORT

Eurofins Carlsbad  
1089 N Canal St.  
Carlsbad, NM 88220  
Tel: (575)988-3199

Laboratory Job ID: 890-2688-1

Client Project/Site: (CB) CottonBerry 20 Fed 5H 6H

For:

H & R Enterprises  
5120 W Kansas St  
Hobbs, New Mexico 88242

Attn: Michael Collier

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:

8/2/2022 10:28:28 AM

Jessica Kramer, Project Manager  
(432)704-5440

[Jessica.Kramer@et.eurofinsus.com](mailto:Jessica.Kramer@et.eurofinsus.com)

### LINKS

Review your project  
results through



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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: H & R Enterprises  
Project/Site: (CB) CottonBerry 20 Fed 5H 6H

Laboratory Job ID: 890-2688-1

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## Definitions/Glossary

Client: H &amp; R Enterprises

Job ID: 890-2688-1

Project/Site: (CB) CottonBerry 20 Fed 5H 6H

## Qualifiers

## GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

## GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

## HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Carlsbad

## Case Narrative

Client: H & R Enterprises  
Project/Site: (CB) CottonBerry 20 Fed 5H 6H

Job ID: 890-2688-1

**Job ID: 890-2688-1****Laboratory: Eurofins Carlsbad****Narrative****Job Narrative  
890-2688-1****Receipt**

The samples were received on 7/29/2022 1:05 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 7.8°C

**GC VOA**

Method 8021B: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for preparation batch 880-31170 and analytical batch 880-31148 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-2 (890-2688-2) and S-3 (890-2688-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: S-13 (890-2688-13). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

**GC Semi VOA**

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-31151/2-A) and (LCSD 880-31151/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD\_NM: Surrogate recovery was outside acceptance limits for the following matrix spike (MS) sample: (890-2688-A-1-B MS). The parent sample's surrogate recovery was within limits. The MS sample has been qualified and reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

**HPLC/IC**

Method 300\_ORGFM\_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-31187 and 880-31187 and analytical batch 880-31227 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. The associated samples are: S-11 (890-2688-11), S-12 (890-2688-12), S-13 (890-2688-13), S-14 (890-2688-14), SW-1 (890-2688-15), SW-2 (890-2688-16), SW-3 (890-2688-17), SW-4 (890-2688-18), BG-1 (890-2688-19), BG-2 (890-2688-20), (890-2688-A-11-E MS) and (890-2688-A-11-F MSD).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

## Client Sample Results

Client: H & R Enterprises  
Project/Site: (CB) CottonBerry 20 Fed 5H 6H

Job ID: 890-2688-1

## Client Sample ID: S-1

Lab Sample ID: 890-2688-1

Date Collected: 07/29/22 00:00

Matrix: Solid

Date Received: 07/29/22 13:05

Sample Depth: 3

## Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		08/01/22 09:07	08/01/22 18:20	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/01/22 09:07	08/01/22 18:20	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/01/22 09:07	08/01/22 18:20	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		08/01/22 09:07	08/01/22 18:20	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/01/22 09:07	08/01/22 18:20	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/01/22 09:07	08/01/22 18:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	08/01/22 09:07	08/01/22 18:20	1
1,4-Difluorobenzene (Surr)	88		70 - 130	08/01/22 09:07	08/01/22 18:20	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			08/02/22 10:55	1

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/01/22 16:58	1

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/01/22 09:04	08/01/22 11:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/01/22 09:04	08/01/22 11:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/01/22 09:04	08/01/22 11:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130	08/01/22 09:04	08/01/22 11:36	1
o-Terphenyl	89		70 - 130	08/01/22 09:04	08/01/22 11:36	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	60.3		5.01		mg/Kg			08/01/22 18:36	1

## Client Sample ID: S-2

Lab Sample ID: 890-2688-2

Date Collected: 07/29/22 00:00

Matrix: Solid

Date Received: 07/29/22 13:05

Sample Depth: 3

## Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/01/22 09:07	08/01/22 18:40	1
Toluene	0.00242		0.00200		mg/Kg		08/01/22 09:07	08/01/22 18:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/01/22 09:07	08/01/22 18:40	1
m-Xylene & p-Xylene	0.00952		0.00400		mg/Kg		08/01/22 09:07	08/01/22 18:40	1
o-Xylene	0.00435		0.00200		mg/Kg		08/01/22 09:07	08/01/22 18:40	1
Xylenes, Total	0.0139		0.00400		mg/Kg		08/01/22 09:07	08/01/22 18:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130	08/01/22 09:07	08/01/22 18:40	1

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## Client Sample Results

Client: H & R Enterprises  
Project/Site: (CB) CottonBerry 20 Fed 5H 6H

Job ID: 890-2688-1

## Client Sample ID: S-2

Lab Sample ID: 890-2688-2

Date Collected: 07/29/22 00:00

Matrix: Solid

Date Received: 07/29/22 13:05

Sample Depth: 3

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	117		70 - 130	08/01/22 09:07	08/01/22 18:40	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0163		0.00400		mg/Kg			08/02/22 10:55	1

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/01/22 16:58	1

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/01/22 09:04	08/01/22 12:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/01/22 09:04	08/01/22 12:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/01/22 09:04	08/01/22 12:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130				08/01/22 09:04	08/01/22 12:41	1
o-Terphenyl	80		70 - 130				08/01/22 09:04	08/01/22 12:41	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	299		4.99		mg/Kg			08/01/22 13:55	1

## Client Sample ID: S-3

Lab Sample ID: 890-2688-3

Date Collected: 07/29/22 00:00

Matrix: Solid

Date Received: 07/29/22 13:05

Sample Depth: 3

## Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/01/22 09:07	08/01/22 19:01	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/01/22 09:07	08/01/22 19:01	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/01/22 09:07	08/01/22 19:01	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		08/01/22 09:07	08/01/22 19:01	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/01/22 09:07	08/01/22 19:01	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/01/22 09:07	08/01/22 19:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	308	S1+	70 - 130	08/01/22 09:07	08/01/22 19:01	1
1,4-Difluorobenzene (Surr)	241	S1+	70 - 130	08/01/22 09:07	08/01/22 19:01	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			08/02/22 10:55	1

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/01/22 16:58	1

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## Client Sample Results

Client: H & R Enterprises  
Project/Site: (CB) CottonBerry 20 Fed 5H 6H

Job ID: 890-2688-1

## Client Sample ID: S-3

Lab Sample ID: 890-2688-3

Date Collected: 07/29/22 00:00

Matrix: Solid

Date Received: 07/29/22 13:05

Sample Depth: 3

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/01/22 09:04	08/01/22 13:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/01/22 09:04	08/01/22 13:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/01/22 09:04	08/01/22 13:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				08/01/22 09:04	08/01/22 13:03	1
o-Terphenyl	90		70 - 130				08/01/22 09:04	08/01/22 13:03	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	294		4.97		mg/Kg			08/01/22 14:04	1

## Client Sample ID: S-4

Lab Sample ID: 890-2688-4

Date Collected: 07/29/22 00:00

Matrix: Solid

Date Received: 07/29/22 13:05

Sample Depth: 3

## Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/01/22 09:07	08/01/22 19:22	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/01/22 09:07	08/01/22 19:22	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/01/22 09:07	08/01/22 19:22	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/01/22 09:07	08/01/22 19:22	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/01/22 09:07	08/01/22 19:22	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/01/22 09:07	08/01/22 19:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				08/01/22 09:07	08/01/22 19:22	1
1,4-Difluorobenzene (Surr)	105		70 - 130				08/01/22 09:07	08/01/22 19:22	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/02/22 10:55	1

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/01/22 16:58	1

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/01/22 09:04	08/01/22 13:25	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/01/22 09:04	08/01/22 13:25	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/01/22 09:04	08/01/22 13:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130				08/01/22 09:04	08/01/22 13:25	1
o-Terphenyl	90		70 - 130				08/01/22 09:04	08/01/22 13:25	1

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## Client Sample Results

Client: H & R Enterprises  
Project/Site: (CB) CottonBerry 20 Fed 5H 6H

Job ID: 890-2688-1

## Client Sample ID: S-4

Lab Sample ID: 890-2688-4

Date Collected: 07/29/22 00:00

Matrix: Solid

Date Received: 07/29/22 13:05

Sample Depth: 3

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	73.4		4.97		mg/Kg			08/01/22 14:13	1

## Client Sample ID: S-5

Lab Sample ID: 890-2688-5

Date Collected: 07/29/22 00:00

Matrix: Solid

Date Received: 07/29/22 13:05

Sample Depth: 3

## Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/01/22 09:07	08/01/22 19:42	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/01/22 09:07	08/01/22 19:42	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/01/22 09:07	08/01/22 19:42	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		08/01/22 09:07	08/01/22 19:42	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/01/22 09:07	08/01/22 19:42	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		08/01/22 09:07	08/01/22 19:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				08/01/22 09:07	08/01/22 19:42	1
1,4-Difluorobenzene (Surr)	88		70 - 130				08/01/22 09:07	08/01/22 19:42	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			08/02/22 10:55	1

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/01/22 16:58	1

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/01/22 09:04	08/01/22 13:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/01/22 09:04	08/01/22 13:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/01/22 09:04	08/01/22 13:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				08/01/22 09:04	08/01/22 13:47	1
o-Terphenyl	93		70 - 130				08/01/22 09:04	08/01/22 13:47	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	282		24.9		mg/Kg			08/01/22 14:22	5

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## Client Sample Results

Client: H & R Enterprises  
Project/Site: (CB) CottonBerry 20 Fed 5H 6H

Job ID: 890-2688-1

## Client Sample ID: S-6

Lab Sample ID: 890-2688-6

Date Collected: 07/29/22 00:00

Matrix: Solid

Date Received: 07/29/22 13:05

Sample Depth: 3

## Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/01/22 09:07	08/01/22 20:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/01/22 09:07	08/01/22 20:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/01/22 09:07	08/01/22 20:03	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/01/22 09:07	08/01/22 20:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/01/22 09:07	08/01/22 20:03	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/01/22 09:07	08/01/22 20:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	08/01/22 09:07	08/01/22 20:03	1
1,4-Difluorobenzene (Surr)	83		70 - 130	08/01/22 09:07	08/01/22 20:03	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			08/02/22 10:55	1

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/01/22 16:58	1

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/01/22 09:04	08/01/22 14:08	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/01/22 09:04	08/01/22 14:08	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/01/22 09:04	08/01/22 14:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130	08/01/22 09:04	08/01/22 14:08	1
o-Terphenyl	95		70 - 130	08/01/22 09:04	08/01/22 14:08	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	46.9		5.00		mg/Kg			08/01/22 14:50	1

## Client Sample ID: S-7

Lab Sample ID: 890-2688-7

Date Collected: 07/29/22 00:00

Matrix: Solid

Date Received: 07/29/22 13:05

Sample Depth: 3

## Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/01/22 10:00	08/01/22 16:34	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/01/22 10:00	08/01/22 16:34	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/01/22 10:00	08/01/22 16:34	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/01/22 10:00	08/01/22 16:34	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/01/22 10:00	08/01/22 16:34	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/01/22 10:00	08/01/22 16:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	08/01/22 10:00	08/01/22 16:34	1

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## Client Sample Results

Client: H & R Enterprises  
Project/Site: (CB) CottonBerry 20 Fed 5H 6H

Job ID: 890-2688-1

## Client Sample ID: S-7

Lab Sample ID: 890-2688-7

Date Collected: 07/29/22 00:00

Matrix: Solid

Date Received: 07/29/22 13:05

Sample Depth: 3

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	94		70 - 130	08/01/22 10:00	08/01/22 16:34	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/02/22 10:55	1

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/01/22 16:58	1

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/01/22 09:04	08/01/22 14:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/01/22 09:04	08/01/22 14:30	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/01/22 09:04	08/01/22 14:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				08/01/22 09:04	08/01/22 14:30	1
o-Terphenyl	94		70 - 130				08/01/22 09:04	08/01/22 14:30	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	84.6		5.00		mg/Kg			08/01/22 14:59	1

## Client Sample ID: S-8

Lab Sample ID: 890-2688-8

Date Collected: 07/29/22 00:00

Matrix: Solid

Date Received: 07/29/22 13:05

Sample Depth: 3

## Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/01/22 10:00	08/01/22 16:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/01/22 10:00	08/01/22 16:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/01/22 10:00	08/01/22 16:54	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		08/01/22 10:00	08/01/22 16:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/01/22 10:00	08/01/22 16:54	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/01/22 10:00	08/01/22 16:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130	08/01/22 10:00	08/01/22 16:54	1
1,4-Difluorobenzene (Surr)	101		70 - 130	08/01/22 10:00	08/01/22 16:54	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			08/02/22 10:55	1

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/01/22 16:58	1

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## Client Sample Results

Client: H & R Enterprises  
Project/Site: (CB) CottonBerry 20 Fed 5H 6H

Job ID: 890-2688-1

## Client Sample ID: S-8

Lab Sample ID: 890-2688-8

Date Collected: 07/29/22 00:00

Matrix: Solid

Date Received: 07/29/22 13:05

Sample Depth: 3

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/01/22 09:04	08/01/22 14:52	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/01/22 09:04	08/01/22 14:52	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/01/22 09:04	08/01/22 14:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130				08/01/22 09:04	08/01/22 14:52	1
o-Terphenyl	86		70 - 130				08/01/22 09:04	08/01/22 14:52	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	96.9		5.03		mg/Kg			08/01/22 15:08	1

## Client Sample ID: S-9

Lab Sample ID: 890-2688-9

Date Collected: 07/29/22 00:00

Matrix: Solid

Date Received: 07/29/22 13:05

Sample Depth: 3

## Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/01/22 10:00	08/01/22 17:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/01/22 10:00	08/01/22 17:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/01/22 10:00	08/01/22 17:14	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/01/22 10:00	08/01/22 17:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/01/22 10:00	08/01/22 17:14	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/01/22 10:00	08/01/22 17:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130				08/01/22 10:00	08/01/22 17:14	1
1,4-Difluorobenzene (Surr)	100		70 - 130				08/01/22 10:00	08/01/22 17:14	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/02/22 10:55	1

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/01/22 16:58	1

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/01/22 09:04	08/01/22 15:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/01/22 09:04	08/01/22 15:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/01/22 09:04	08/01/22 15:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				08/01/22 09:04	08/01/22 15:13	1
o-Terphenyl	95		70 - 130				08/01/22 09:04	08/01/22 15:13	1

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## Client Sample Results

Client: H & R Enterprises  
Project/Site: (CB) CottonBerry 20 Fed 5H 6H

Job ID: 890-2688-1

## Client Sample ID: S-9

Lab Sample ID: 890-2688-9

Date Collected: 07/29/22 00:00

Matrix: Solid

Date Received: 07/29/22 13:05

Sample Depth: 3

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	107		5.02		mg/Kg			08/01/22 19:04	1

## Client Sample ID: S-10

Lab Sample ID: 890-2688-10

Date Collected: 07/29/22 00:00

Matrix: Solid

Date Received: 07/29/22 13:05

Sample Depth: 3

## Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/01/22 10:00	08/01/22 17:35	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/01/22 10:00	08/01/22 17:35	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/01/22 10:00	08/01/22 17:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/01/22 10:00	08/01/22 17:35	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/01/22 10:00	08/01/22 17:35	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/01/22 10:00	08/01/22 17:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				08/01/22 10:00	08/01/22 17:35	1
1,4-Difluorobenzene (Surr)	97		70 - 130				08/01/22 10:00	08/01/22 17:35	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/02/22 10:55	1

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/01/22 16:58	1

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/01/22 09:04	08/01/22 15:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/01/22 09:04	08/01/22 15:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/01/22 09:04	08/01/22 15:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				08/01/22 09:04	08/01/22 15:35	1
o-Terphenyl	115		70 - 130				08/01/22 09:04	08/01/22 15:35	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	83.6		5.04		mg/Kg			08/01/22 15:27	1

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## Client Sample Results

Client: H & R Enterprises  
Project/Site: (CB) CottonBerry 20 Fed 5H 6H

Job ID: 890-2688-1

Client Sample ID: S-11

Lab Sample ID: 890-2688-11

Date Collected: 07/29/22 00:00

Matrix: Solid

Date Received: 07/29/22 13:05

Sample Depth: 3

## Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/01/22 10:00	08/01/22 17:55	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/01/22 10:00	08/01/22 17:55	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/01/22 10:00	08/01/22 17:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/01/22 10:00	08/01/22 17:55	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/01/22 10:00	08/01/22 17:55	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/01/22 10:00	08/01/22 17:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	08/01/22 10:00	08/01/22 17:55	1
1,4-Difluorobenzene (Surr)	102		70 - 130	08/01/22 10:00	08/01/22 17:55	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/02/22 10:55	1

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/01/22 16:58	1

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/01/22 09:04	08/01/22 16:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/01/22 09:04	08/01/22 16:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/01/22 09:04	08/01/22 16:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130	08/01/22 09:04	08/01/22 16:19	1
o-Terphenyl	80		70 - 130	08/01/22 09:04	08/01/22 16:19	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	63.5	F1	5.04		mg/Kg			08/01/22 15:36	1

Client Sample ID: S-12

Lab Sample ID: 890-2688-12

Date Collected: 07/29/22 00:00

Matrix: Solid

Date Received: 07/29/22 13:05

Sample Depth: 3

## Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/01/22 10:00	08/01/22 19:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/01/22 10:00	08/01/22 19:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/01/22 10:00	08/01/22 19:46	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/01/22 10:00	08/01/22 19:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/01/22 10:00	08/01/22 19:46	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/01/22 10:00	08/01/22 19:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	08/01/22 10:00	08/01/22 19:46	1

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## Client Sample Results

Client: H & R Enterprises  
Project/Site: (CB) CottonBerry 20 Fed 5H 6H

Job ID: 890-2688-1

## Client Sample ID: S-12

Lab Sample ID: 890-2688-12

Date Collected: 07/29/22 00:00

Matrix: Solid

Date Received: 07/29/22 13:05

Sample Depth: 3

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	99		70 - 130	08/01/22 10:00	08/01/22 19:46	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/02/22 10:55	1

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/01/22 16:58	1

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/01/22 09:04	08/01/22 16:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/01/22 09:04	08/01/22 16:40	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/01/22 09:04	08/01/22 16:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130				08/01/22 09:04	08/01/22 16:40	1
o-Terphenyl	96		70 - 130				08/01/22 09:04	08/01/22 16:40	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	119		4.97		mg/Kg			08/01/22 19:13	1

## Client Sample ID: S-13

Lab Sample ID: 890-2688-13

Date Collected: 07/29/22 00:00

Matrix: Solid

Date Received: 07/29/22 13:05

Sample Depth: 3

## Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/01/22 10:00	08/01/22 20:07	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/01/22 10:00	08/01/22 20:07	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/01/22 10:00	08/01/22 20:07	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/01/22 10:00	08/01/22 20:07	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/01/22 10:00	08/01/22 20:07	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/01/22 10:00	08/01/22 20:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	66	S1-	70 - 130	08/01/22 10:00	08/01/22 20:07	1
1,4-Difluorobenzene (Surr)	98		70 - 130	08/01/22 10:00	08/01/22 20:07	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/02/22 10:55	1

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/01/22 16:58	1

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## Client Sample Results

Client: H & R Enterprises  
Project/Site: (CB) CottonBerry 20 Fed 5H 6H

Job ID: 890-2688-1

## Client Sample ID: S-13

Lab Sample ID: 890-2688-13

Date Collected: 07/29/22 00:00

Matrix: Solid

Date Received: 07/29/22 13:05

Sample Depth: 3

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/01/22 08:56	08/01/22 12:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/01/22 08:56	08/01/22 12:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/01/22 08:56	08/01/22 12:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				08/01/22 08:56	08/01/22 12:41	1
o-Terphenyl	104		70 - 130				08/01/22 08:56	08/01/22 12:41	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.4		4.96		mg/Kg			08/01/22 16:13	1

## Client Sample ID: S-14

Lab Sample ID: 890-2688-14

Date Collected: 07/29/22 00:00

Matrix: Solid

Date Received: 07/29/22 13:05

Sample Depth: 3

## Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/01/22 10:00	08/01/22 20:27	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/01/22 10:00	08/01/22 20:27	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/01/22 10:00	08/01/22 20:27	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/01/22 10:00	08/01/22 20:27	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/01/22 10:00	08/01/22 20:27	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/01/22 10:00	08/01/22 20:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130				08/01/22 10:00	08/01/22 20:27	1
1,4-Difluorobenzene (Surr)	97		70 - 130				08/01/22 10:00	08/01/22 20:27	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/02/22 10:55	1

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/01/22 16:58	1

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/01/22 08:56	08/01/22 13:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/01/22 08:56	08/01/22 13:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/01/22 08:56	08/01/22 13:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				08/01/22 08:56	08/01/22 13:03	1
o-Terphenyl	108		70 - 130				08/01/22 08:56	08/01/22 13:03	1

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## Client Sample Results

Client: H & R Enterprises  
Project/Site: (CB) CottonBerry 20 Fed 5H 6H

Job ID: 890-2688-1

## Client Sample ID: S-14

Lab Sample ID: 890-2688-14

Date Collected: 07/29/22 00:00

Matrix: Solid

Date Received: 07/29/22 13:05

Sample Depth: 3

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	88.9		4.95		mg/Kg			08/01/22 16:40	1

## Client Sample ID: SW-1

Lab Sample ID: 890-2688-15

Date Collected: 07/29/22 00:00

Matrix: Solid

Date Received: 07/29/22 13:05

Sample Depth: 3

## Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/01/22 10:00	08/01/22 20:47	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/01/22 10:00	08/01/22 20:47	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/01/22 10:00	08/01/22 20:47	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/01/22 10:00	08/01/22 20:47	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/01/22 10:00	08/01/22 20:47	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/01/22 10:00	08/01/22 20:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				08/01/22 10:00	08/01/22 20:47	1
1,4-Difluorobenzene (Surr)	100		70 - 130				08/01/22 10:00	08/01/22 20:47	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/02/22 10:55	1

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/01/22 16:58	1

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/01/22 08:56	08/01/22 13:25	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/01/22 08:56	08/01/22 13:25	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/01/22 08:56	08/01/22 13:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				08/01/22 08:56	08/01/22 13:25	1
o-Terphenyl	113		70 - 130				08/01/22 08:56	08/01/22 13:25	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	309		25.3		mg/Kg			08/01/22 16:50	5

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## Client Sample Results

Client: H & R Enterprises  
Project/Site: (CB) CottonBerry 20 Fed 5H 6H

Job ID: 890-2688-1

Client Sample ID: SW-2

Lab Sample ID: 890-2688-16

Date Collected: 07/29/22 00:00

Matrix: Solid

Date Received: 07/29/22 13:05

Sample Depth: 3

## Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/01/22 10:00	08/01/22 21:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/01/22 10:00	08/01/22 21:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/01/22 10:00	08/01/22 21:08	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/01/22 10:00	08/01/22 21:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/01/22 10:00	08/01/22 21:08	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/01/22 10:00	08/01/22 21:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	08/01/22 10:00	08/01/22 21:08	1
1,4-Difluorobenzene (Surr)	96		70 - 130	08/01/22 10:00	08/01/22 21:08	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/02/22 10:55	1

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/01/22 16:58	1

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/01/22 08:56	08/01/22 13:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/01/22 08:56	08/01/22 13:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/01/22 08:56	08/01/22 13:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130	08/01/22 08:56	08/01/22 13:47	1
o-Terphenyl	108		70 - 130	08/01/22 08:56	08/01/22 13:47	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	135		5.03		mg/Kg			08/01/22 16:59	1

Client Sample ID: SW-3

Lab Sample ID: 890-2688-17

Date Collected: 07/29/22 00:00

Matrix: Solid

Date Received: 07/29/22 13:05

Sample Depth: 3

## Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/01/22 10:00	08/01/22 21:28	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/01/22 10:00	08/01/22 21:28	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/01/22 10:00	08/01/22 21:28	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/01/22 10:00	08/01/22 21:28	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/01/22 10:00	08/01/22 21:28	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/01/22 10:00	08/01/22 21:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	08/01/22 10:00	08/01/22 21:28	1

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## Client Sample Results

Client: H & R Enterprises  
Project/Site: (CB) CottonBerry 20 Fed 5H 6H

Job ID: 890-2688-1

## Client Sample ID: SW-3

Lab Sample ID: 890-2688-17

Date Collected: 07/29/22 00:00

Matrix: Solid

Date Received: 07/29/22 13:05

Sample Depth: 3

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	99		70 - 130	08/01/22 10:00	08/01/22 21:28	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/02/22 10:55	1

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/01/22 16:58	1

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/01/22 08:56	08/01/22 14:08	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/01/22 08:56	08/01/22 14:08	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/01/22 08:56	08/01/22 14:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				08/01/22 08:56	08/01/22 14:08	1
o-Terphenyl	96		70 - 130				08/01/22 08:56	08/01/22 14:08	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	78.1		5.04		mg/Kg			08/01/22 17:08	1

## Client Sample ID: SW-4

Lab Sample ID: 890-2688-18

Date Collected: 07/29/22 00:00

Matrix: Solid

Date Received: 07/29/22 13:05

Sample Depth: 3

## Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/01/22 10:00	08/01/22 21:49	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/01/22 10:00	08/01/22 21:49	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/01/22 10:00	08/01/22 21:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/01/22 10:00	08/01/22 21:49	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/01/22 10:00	08/01/22 21:49	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/01/22 10:00	08/01/22 21:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	08/01/22 10:00	08/01/22 21:49	1
1,4-Difluorobenzene (Surr)	102		70 - 130	08/01/22 10:00	08/01/22 21:49	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/02/22 10:55	1

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/01/22 16:58	1

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## Client Sample Results

Client: H & R Enterprises  
Project/Site: (CB) CottonBerry 20 Fed 5H 6H

Job ID: 890-2688-1

## Client Sample ID: SW-4

Lab Sample ID: 890-2688-18

Date Collected: 07/29/22 00:00

Matrix: Solid

Date Received: 07/29/22 13:05

Sample Depth: 3

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/01/22 08:56	08/01/22 14:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/01/22 08:56	08/01/22 14:30	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/01/22 08:56	08/01/22 14:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				08/01/22 08:56	08/01/22 14:30	1
o-Terphenyl	106		70 - 130				08/01/22 08:56	08/01/22 14:30	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	94.3		5.04		mg/Kg			08/01/22 17:17	1

## Client Sample ID: BG-1

Lab Sample ID: 890-2688-19

Date Collected: 07/29/22 00:00

Matrix: Solid

Date Received: 07/29/22 13:05

Sample Depth: 3

## Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/01/22 10:00	08/01/22 22:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/01/22 10:00	08/01/22 22:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/01/22 10:00	08/01/22 22:09	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/01/22 10:00	08/01/22 22:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/01/22 10:00	08/01/22 22:09	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/01/22 10:00	08/01/22 22:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				08/01/22 10:00	08/01/22 22:09	1
1,4-Difluorobenzene (Surr)	93		70 - 130				08/01/22 10:00	08/01/22 22:09	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/02/22 10:55	1

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/01/22 16:58	1

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/01/22 08:56	08/01/22 14:52	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/01/22 08:56	08/01/22 14:52	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/01/22 08:56	08/01/22 14:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				08/01/22 08:56	08/01/22 14:52	1
o-Terphenyl	99		70 - 130				08/01/22 08:56	08/01/22 14:52	1

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## Client Sample Results

Client: H & R Enterprises  
Project/Site: (CB) CottonBerry 20 Fed 5H 6H

Job ID: 890-2688-1

## Client Sample ID: BG-1

Lab Sample ID: 890-2688-19

Date Collected: 07/29/22 00:00

Matrix: Solid

Date Received: 07/29/22 13:05

Sample Depth: 3

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.2		4.99		mg/Kg			08/01/22 17:26	1

## Client Sample ID: BG-2

Lab Sample ID: 890-2688-20

Date Collected: 07/29/22 00:00

Matrix: Solid

Date Received: 07/29/22 13:05

Sample Depth: 3

## Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/01/22 10:00	08/01/22 22:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/01/22 10:00	08/01/22 22:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/01/22 10:00	08/01/22 22:30	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		08/01/22 10:00	08/01/22 22:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/01/22 10:00	08/01/22 22:30	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/01/22 10:00	08/01/22 22:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				08/01/22 10:00	08/01/22 22:30	1
1,4-Difluorobenzene (Surr)	98		70 - 130				08/01/22 10:00	08/01/22 22:30	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			08/02/22 10:55	1

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/01/22 16:58	1

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/01/22 08:56	08/01/22 15:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/01/22 08:56	08/01/22 15:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/01/22 08:56	08/01/22 15:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130				08/01/22 08:56	08/01/22 15:13	1
o-Terphenyl	91		70 - 130				08/01/22 08:56	08/01/22 15:13	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.53		4.99		mg/Kg			08/01/22 17:36	1

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## Client Sample Results

Client: H & R Enterprises  
Project/Site: (CB) CottonBerry 20 Fed 5H 6H

Job ID: 890-2688-1

Client Sample ID: BG-3

Lab Sample ID: 890-2688-21

Date Collected: 07/29/22 00:00

Matrix: Solid

Date Received: 07/29/22 13:05

Sample Depth: 3

## Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/01/22 10:00	08/01/22 22:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/01/22 10:00	08/01/22 22:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/01/22 10:00	08/01/22 22:50	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/01/22 10:00	08/01/22 22:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/01/22 10:00	08/01/22 22:50	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/01/22 10:00	08/01/22 22:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	08/01/22 10:00	08/01/22 22:50	1
1,4-Difluorobenzene (Surr)	99		70 - 130	08/01/22 10:00	08/01/22 22:50	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/02/22 10:55	1

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/01/22 16:58	1

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/01/22 08:56	08/01/22 15:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/01/22 08:56	08/01/22 15:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/01/22 08:56	08/01/22 15:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	08/01/22 08:56	08/01/22 15:35	1
o-Terphenyl	100		70 - 130	08/01/22 08:56	08/01/22 15:35	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.03		5.00		mg/Kg			08/01/22 13:17	1

Client Sample ID: BG-4

Lab Sample ID: 890-2688-22

Date Collected: 07/29/22 00:00

Matrix: Solid

Date Received: 07/29/22 13:05

Sample Depth: 3

## Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F1	0.00200		mg/Kg		08/01/22 10:04	08/01/22 23:07	1
Toluene	<0.00200	U F1	0.00200		mg/Kg		08/01/22 10:04	08/01/22 23:07	1
Ethylbenzene	<0.00200	U F1	0.00200		mg/Kg		08/01/22 10:04	08/01/22 23:07	1
m-Xylene & p-Xylene	<0.00399	U F1	0.00399		mg/Kg		08/01/22 10:04	08/01/22 23:07	1
o-Xylene	0.00202	F1	0.00200		mg/Kg		08/01/22 10:04	08/01/22 23:07	1
Xylenes, Total	<0.00399	U F1	0.00399		mg/Kg		08/01/22 10:04	08/01/22 23:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	08/01/22 10:04	08/01/22 23:07	1

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## Client Sample Results

Client: H & R Enterprises  
Project/Site: (CB) CottonBerry 20 Fed 5H 6H

Job ID: 890-2688-1

Client Sample ID: BG-4

Lab Sample ID: 890-2688-22

Date Collected: 07/29/22 00:00

Matrix: Solid

Date Received: 07/29/22 13:05

Sample Depth: 3

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	94		70 - 130	08/01/22 10:04	08/01/22 23:07	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/02/22 10:55	1

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/01/22 16:58	1

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/01/22 08:56	08/01/22 16:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/01/22 08:56	08/01/22 16:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/01/22 08:56	08/01/22 16:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				08/01/22 08:56	08/01/22 16:19	1
o-Terphenyl	93		70 - 130				08/01/22 08:56	08/01/22 16:19	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.9		4.97		mg/Kg			08/01/22 13:25	1

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## Surrogate Summary

Client: H &amp; R Enterprises

Job ID: 890-2688-1

Project/Site: (CB) CottonBerry 20 Fed 5H 6H

## Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
890-2688-1	S-1	110	88
890-2688-2	S-2	134 S1+	117
890-2688-3	S-3	308 S1+	241 S1+
890-2688-4	S-4	119	105
890-2688-5	S-5	104	88
890-2688-6	S-6	91	83
890-2688-7	S-7	100	94
890-2688-8	S-8	82	101
890-2688-9	S-9	83	100
890-2688-10	S-10	101	97
890-2688-11	S-11	101	102
890-2688-12	S-12	105	99
890-2688-13	S-13	66 S1-	98
890-2688-14	S-14	98	97
890-2688-15	SW-1	101	100
890-2688-16	SW-2	97	96
890-2688-17	SW-3	97	99
890-2688-18	SW-4	103	102
890-2688-19	BG-1	104	93
890-2688-20	BG-2	103	98
890-2688-21	BG-3	104	99
890-2688-22	BG-4	87	94
890-2688-22 MS	BG-4	96	93
890-2688-22 MSD	BG-4	89	83
LCS 880-31029/1-A	Lab Control Sample	110	107
LCS 880-31155/1-A	Lab Control Sample	100	99
LCS 880-31170/1-A	Lab Control Sample	103	100
LCSD 880-31029/2-A	Lab Control Sample Dup	108	95
LCSD 880-31155/2-A	Lab Control Sample Dup	98	96
LCSD 880-31170/2-A	Lab Control Sample Dup	96	94
MB 880-31029/5-A	Method Blank	95	101
MB 880-31155/5-A	Method Blank	98	89
MB 880-31170/5-A	Method Blank	99	83

## Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
890-2688-1	S-1	85	89
890-2688-1 MS	S-1	70	66 S1-
890-2688-1 MSD	S-1	76	73
890-2688-2	S-2	72	80
890-2688-3	S-3	78	90
890-2688-4	S-4	80	90

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## Surrogate Summary

Client: H &amp; R Enterprises

Job ID: 890-2688-1

Project/Site: (CB) CottonBerry 20 Fed 5H 6H

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-2688-5	S-5	84	93
890-2688-6	S-6	88	95
890-2688-7	S-7	84	94
890-2688-8	S-8	77	86
890-2688-9	S-9	85	95
890-2688-10	S-10	101	115
890-2688-11	S-11	72	80
890-2688-12	S-12	82	96
890-2688-13	S-13	88	104
890-2688-14	S-14	93	108
890-2688-15	SW-1	98	113
890-2688-16	SW-2	91	108
890-2688-17	SW-3	86	96
890-2688-18	SW-4	92	106
890-2688-19	BG-1	90	99
890-2688-20	BG-2	82	91
890-2688-21	BG-3	90	100
890-2688-22	BG-4	84	93
LCS 880-31151/2-A	Lab Control Sample	127	134 S1+
LCS 880-31153/2-A	Lab Control Sample	86	88
LCSD 880-31151/3-A	Lab Control Sample Dup	131 S1+	137 S1+
LCSD 880-31153/3-A	Lab Control Sample Dup	81	84
MB 880-31151/1-A	Method Blank	97	117
MB 880-31153/1-A	Method Blank	87	105

## Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

## QC Sample Results

Client: H & R Enterprises  
Project/Site: (CB) CottonBerry 20 Fed 5H 6H

Job ID: 890-2688-1

## Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-31029/5-A

Matrix: Solid

Analysis Batch: 31185

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31029

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/29/22 15:35	08/01/22 14:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/29/22 15:35	08/01/22 14:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/29/22 15:35	08/01/22 14:22	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/29/22 15:35	08/01/22 14:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/29/22 15:35	08/01/22 14:22	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/29/22 15:35	08/01/22 14:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	07/29/22 15:35	08/01/22 14:22	1
1,4-Difluorobenzene (Surr)	101		70 - 130	07/29/22 15:35	08/01/22 14:22	1

Lab Sample ID: LCS 880-31029/1-A

Matrix: Solid

Analysis Batch: 31185

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 31029

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1130		mg/Kg		113	70 - 130
Toluene	0.100	0.1180		mg/Kg		118	70 - 130
Ethylbenzene	0.100	0.1036		mg/Kg		104	70 - 130
m-Xylene & p-Xylene	0.200	0.2084		mg/Kg		104	70 - 130
o-Xylene	0.100	0.1214		mg/Kg		121	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: LCSD 880-31029/2-A

Matrix: Solid

Analysis Batch: 31185

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 31029

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09354		mg/Kg		94	70 - 130	19	35
Toluene	0.100	0.1095		mg/Kg		109	70 - 130	8	35
Ethylbenzene	0.100	0.09751		mg/Kg		98	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.1989		mg/Kg		99	70 - 130	5	35
o-Xylene	0.100	0.1166		mg/Kg		117	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: MB 880-31155/5-A

Matrix: Solid

Analysis Batch: 31148

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31155

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/01/22 09:07	08/01/22 11:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/01/22 09:07	08/01/22 11:15	1

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## QC Sample Results

Client: H & R Enterprises  
Project/Site: (CB) CottonBerry 20 Fed 5H 6H

Job ID: 890-2688-1

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-31155/5-A

Matrix: Solid

Analysis Batch: 31148

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31155

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/01/22 09:07	08/01/22 11:15	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/01/22 09:07	08/01/22 11:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/01/22 09:07	08/01/22 11:15	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/01/22 09:07	08/01/22 11:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	08/01/22 09:07	08/01/22 11:15	1
1,4-Difluorobenzene (Surr)	89		70 - 130	08/01/22 09:07	08/01/22 11:15	1

Lab Sample ID: LCS 880-31155/1-A

Matrix: Solid

Analysis Batch: 31148

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 31155

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Benzene	0.100	0.09936		mg/Kg		99	70 - 130
Toluene	0.100	0.09630		mg/Kg		96	70 - 130
Ethylbenzene	0.100	0.09817		mg/Kg		98	70 - 130
m-Xylene & p-Xylene	0.200	0.1988		mg/Kg		99	70 - 130
o-Xylene	0.100	0.1075		mg/Kg		107	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-31155/2-A

Matrix: Solid

Analysis Batch: 31148

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 31155

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09608		mg/Kg		96	70 - 130	3	35
Toluene	0.100	0.09311		mg/Kg		93	70 - 130	3	35
Ethylbenzene	0.100	0.09442		mg/Kg		94	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.1886		mg/Kg		94	70 - 130	5	35
o-Xylene	0.100	0.1018		mg/Kg		102	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: MB 880-31170/5-A

Matrix: Solid

Analysis Batch: 31148

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31170

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/01/22 10:04	08/01/22 22:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/01/22 10:04	08/01/22 22:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/01/22 10:04	08/01/22 22:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/01/22 10:04	08/01/22 22:45	1

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## QC Sample Results

Client: H & R Enterprises  
Project/Site: (CB) CottonBerry 20 Fed 5H 6H

Job ID: 890-2688-1

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-31170/5-A

Matrix: Solid

Analysis Batch: 31148

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31170

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/01/22 10:04	08/01/22 22:45	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/01/22 10:04	08/01/22 22:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	08/01/22 10:04	08/01/22 22:45	1
1,4-Difluorobenzene (Surr)	83		70 - 130	08/01/22 10:04	08/01/22 22:45	1

Lab Sample ID: LCS 880-31170/1-A

Matrix: Solid

Analysis Batch: 31148

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 31170

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1033		mg/Kg		103	70 - 130
Toluene	0.100	0.09939		mg/Kg		99	70 - 130
Ethylbenzene	0.100	0.1006		mg/Kg		101	70 - 130
m-Xylene & p-Xylene	0.200	0.2046		mg/Kg		102	70 - 130
o-Xylene	0.100	0.1127		mg/Kg		113	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-31170/2-A

Matrix: Solid

Analysis Batch: 31148

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 31170

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09968		mg/Kg		100	70 - 130	4	35
Toluene	0.100	0.1000		mg/Kg		100	70 - 130	1	35
Ethylbenzene	0.100	0.1019		mg/Kg		102	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2054		mg/Kg		103	70 - 130	0	35
o-Xylene	0.100	0.1112		mg/Kg		111	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 890-2688-22 MS

Matrix: Solid

Analysis Batch: 31148

Client Sample ID: BG-4

Prep Type: Total/NA

Prep Batch: 31170

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U F1	0.0998	0.01203	F1	mg/Kg		12	70 - 130
Toluene	<0.00200	U F1	0.0998	0.01160	F1	mg/Kg		11	70 - 130
Ethylbenzene	<0.00200	U F1	0.0998	0.01504	F1	mg/Kg		13	70 - 130
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.03299	F1	mg/Kg		15	70 - 130
o-Xylene	0.00202	F1	0.0998	0.02103	F1	mg/Kg		19	70 - 130

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## QC Sample Results

Client: H & R Enterprises  
Project/Site: (CB) CottonBerry 20 Fed 5H 6H

Job ID: 890-2688-1

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-2688-22 MS

Matrix: Solid

Analysis Batch: 31148

Client Sample ID: BG-4

Prep Type: Total/NA

Prep Batch: 31170

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: 890-2688-22 MSD

Matrix: Solid

Analysis Batch: 31148

Client Sample ID: BG-4

Prep Type: Total/NA

Prep Batch: 31170

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.100	0.01183	F1	mg/Kg		12	70 - 130	2	35
Toluene	<0.00200	U F1	0.100	0.01270	F1	mg/Kg		12	70 - 130	9	35
Ethylbenzene	<0.00200	U F1	0.100	0.01492	F1	mg/Kg		13	70 - 130	1	35
m-Xylene & p-Xylene	<0.00399	U F1	0.201	0.03131	F1	mg/Kg		14	70 - 130	5	35
o-Xylene	0.00202	F1	0.100	0.01987	F1	mg/Kg		18	70 - 130	6	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		70 - 130
1,4-Difluorobenzene (Surr)	83		70 - 130

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-31151/1-A

Matrix: Solid

Analysis Batch: 31144

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31151

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/01/22 08:56	08/01/22 10:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/01/22 08:56	08/01/22 10:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/01/22 08:56	08/01/22 10:30	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1-Chlorooctane	97		70 - 130	08/01/22 08:56	08/01/22 10:30	1			
o-Terphenyl	117		70 - 130	08/01/22 08:56	08/01/22 10:30	1			

Lab Sample ID: LCS 880-31151/2-A

Matrix: Solid

Analysis Batch: 31144

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 31151

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	918.9		mg/Kg		92	70 - 130
Diesel Range Organics (Over C10-C28)	1000	982.3		mg/Kg		98	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	127		70 - 130
o-Terphenyl	134	S1+	70 - 130

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## QC Sample Results

Client: H &amp; R Enterprises

Job ID: 890-2688-1

Project/Site: (CB) CottonBerry 20 Fed 5H 6H

## Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-31151/3-A

Matrix: Solid

Analysis Batch: 31144

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 31151

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	959.3		mg/Kg		96	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	1009		mg/Kg		101	70 - 130	3	20
Surrogate	%Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	131	S1+	70 - 130						
o-Terphenyl	137	S1+	70 - 130						

Lab Sample ID: MB 880-31153/1-A

Matrix: Solid

Analysis Batch: 31146

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31153

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/01/22 09:04	08/01/22 10:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/01/22 09:04	08/01/22 10:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/01/22 09:04	08/01/22 10:30	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				08/01/22 09:04	08/01/22 10:30	1
o-Terphenyl	105		70 - 130				08/01/22 09:04	08/01/22 10:30	1

Lab Sample ID: LCS 880-31153/2-A

Matrix: Solid

Analysis Batch: 31146

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 31153

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	944.8		mg/Kg		94	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	933.0		mg/Kg		93	70 - 130		
Surrogate	%Recovery	LCS Qualifier	Limits						
1-Chlorooctane	86		70 - 130						
o-Terphenyl	88		70 - 130						

Lab Sample ID: LCSD 880-31153/3-A

Matrix: Solid

Analysis Batch: 31146

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 31153

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	950.5		mg/Kg		95	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	909.9		mg/Kg		91	70 - 130	2	20

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## QC Sample Results

Client: H & R Enterprises  
Project/Site: (CB) CottonBerry 20 Fed 5H 6H

Job ID: 890-2688-1

## Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-31153/3-A

Matrix: Solid

Analysis Batch: 31146

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 31153

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	81		70 - 130
o-Terphenyl	84		70 - 130

Lab Sample ID: 890-2688-1 MS

Matrix: Solid

Analysis Batch: 31146

Client Sample ID: S-1

Prep Type: Total/NA

Prep Batch: 31153

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	863.1		mg/Kg		86	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.9	U	999	728.0		mg/Kg		71	70 - 130	
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	70		70 - 130							
o-Terphenyl	66	S1-	70 - 130							

Lab Sample ID: 890-2688-1 MSD

Matrix: Solid

Analysis Batch: 31146

Client Sample ID: S-1

Prep Type: Total/NA

Prep Batch: 31153

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	901.6		mg/Kg		90	70 - 130	4	20	
Diesel Range Organics (Over C10-C28)	<49.9	U	999	801.4		mg/Kg		78	70 - 130	10	20	
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	76		70 - 130									
o-Terphenyl	73		70 - 130									

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-31186/1-A

Matrix: Solid

Analysis Batch: 31226

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	<5.00	U	5.00		mg/Kg			08/01/22 12:30	1	

Lab Sample ID: LCS 880-31186/2-A

Matrix: Solid

Analysis Batch: 31226

Client Sample ID: Lab Control Sample

Prep Type: Soluble

	Spike	LCS	LCS					%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	250	256.3		mg/Kg		103	90 - 110		

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## QC Sample Results

Client: H & R Enterprises  
Project/Site: (CB) CottonBerry 20 Fed 5H 6H

Job ID: 890-2688-1

## Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-31186/3-A

Matrix: Solid

Analysis Batch: 31226

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	256.8		mg/Kg		103	90 - 110	0	20

Lab Sample ID: MB 880-31187/1-A

Matrix: Solid

Analysis Batch: 31227

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/01/22 12:59	1

Lab Sample ID: LCS 880-31187/2-A

Matrix: Solid

Analysis Batch: 31227

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	250	260.6		mg/Kg		104	90 - 110		

Lab Sample ID: LCSD 880-31187/3-A

Matrix: Solid

Analysis Batch: 31227

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	249.3		mg/Kg		100	90 - 110	4	20

Lab Sample ID: 890-2688-1 MS

Matrix: Solid

Analysis Batch: 31227

Client Sample ID: S-1

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	60.3		251	302.0		mg/Kg		96	90 - 110		

Lab Sample ID: 890-2688-1 MSD

Matrix: Solid

Analysis Batch: 31227

Client Sample ID: S-1

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	60.3		251	302.8		mg/Kg		97	90 - 110	0	20

Lab Sample ID: 890-2688-11 MS

Matrix: Solid

Analysis Batch: 31227

Client Sample ID: S-11

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	63.5	F1	252	278.0	F1	mg/Kg		85	90 - 110		

Lab Sample ID: 890-2688-11 MSD

Matrix: Solid

Analysis Batch: 31227

Client Sample ID: S-11

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	63.5	F1	252	278.3	F1	mg/Kg		85	90 - 110	0	20

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## QC Association Summary

Client: H &amp; R Enterprises

Job ID: 890-2688-1

Project/Site: (CB) CottonBerry 20 Fed 5H 6H

## GC VOA

## Prep Batch: 31029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2688-7	S-7	Total/NA	Solid	5035	
890-2688-8	S-8	Total/NA	Solid	5035	
890-2688-9	S-9	Total/NA	Solid	5035	
890-2688-10	S-10	Total/NA	Solid	5035	
890-2688-11	S-11	Total/NA	Solid	5035	
890-2688-12	S-12	Total/NA	Solid	5035	
890-2688-13	S-13	Total/NA	Solid	5035	
890-2688-14	S-14	Total/NA	Solid	5035	
890-2688-15	SW-1	Total/NA	Solid	5035	
890-2688-16	SW-2	Total/NA	Solid	5035	
890-2688-17	SW-3	Total/NA	Solid	5035	
890-2688-18	SW-4	Total/NA	Solid	5035	
890-2688-19	BG-1	Total/NA	Solid	5035	
890-2688-20	BG-2	Total/NA	Solid	5035	
890-2688-21	BG-3	Total/NA	Solid	5035	
MB 880-31029/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-31029/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-31029/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

## Analysis Batch: 31148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2688-1	S-1	Total/NA	Solid	8021B	31155
890-2688-2	S-2	Total/NA	Solid	8021B	31155
890-2688-3	S-3	Total/NA	Solid	8021B	31155
890-2688-4	S-4	Total/NA	Solid	8021B	31155
890-2688-5	S-5	Total/NA	Solid	8021B	31155
890-2688-6	S-6	Total/NA	Solid	8021B	31155
890-2688-22	BG-4	Total/NA	Solid	8021B	31170
MB 880-31155/5-A	Method Blank	Total/NA	Solid	8021B	31155
MB 880-31170/5-A	Method Blank	Total/NA	Solid	8021B	31170
LCS 880-31155/1-A	Lab Control Sample	Total/NA	Solid	8021B	31155
LCS 880-31170/1-A	Lab Control Sample	Total/NA	Solid	8021B	31170
LCSD 880-31155/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	31155
LCSD 880-31170/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	31170
890-2688-22 MS	BG-4	Total/NA	Solid	8021B	31170
890-2688-22 MSD	BG-4	Total/NA	Solid	8021B	31170

## Prep Batch: 31155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2688-1	S-1	Total/NA	Solid	5035	
890-2688-2	S-2	Total/NA	Solid	5035	
890-2688-3	S-3	Total/NA	Solid	5035	
890-2688-4	S-4	Total/NA	Solid	5035	
890-2688-5	S-5	Total/NA	Solid	5035	
890-2688-6	S-6	Total/NA	Solid	5035	
MB 880-31155/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-31155/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-31155/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

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## QC Association Summary

Client: H &amp; R Enterprises

Job ID: 890-2688-1

Project/Site: (CB) CottonBerry 20 Fed 5H 6H

## GC VOA

## Prep Batch: 31170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2688-22	BG-4	Total/NA	Solid	5035	
MB 880-31170/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-31170/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-31170/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2688-22 MS	BG-4	Total/NA	Solid	5035	
890-2688-22 MSD	BG-4	Total/NA	Solid	5035	

## Analysis Batch: 31185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2688-7	S-7	Total/NA	Solid	8021B	31029
890-2688-8	S-8	Total/NA	Solid	8021B	31029
890-2688-9	S-9	Total/NA	Solid	8021B	31029
890-2688-10	S-10	Total/NA	Solid	8021B	31029
890-2688-11	S-11	Total/NA	Solid	8021B	31029
890-2688-12	S-12	Total/NA	Solid	8021B	31029
890-2688-13	S-13	Total/NA	Solid	8021B	31029
890-2688-14	S-14	Total/NA	Solid	8021B	31029
890-2688-15	SW-1	Total/NA	Solid	8021B	31029
890-2688-16	SW-2	Total/NA	Solid	8021B	31029
890-2688-17	SW-3	Total/NA	Solid	8021B	31029
890-2688-18	SW-4	Total/NA	Solid	8021B	31029
890-2688-19	BG-1	Total/NA	Solid	8021B	31029
890-2688-20	BG-2	Total/NA	Solid	8021B	31029
890-2688-21	BG-3	Total/NA	Solid	8021B	31029
MB 880-31029/5-A	Method Blank	Total/NA	Solid	8021B	31029
LCS 880-31029/1-A	Lab Control Sample	Total/NA	Solid	8021B	31029
LCSD 880-31029/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	31029

## Analysis Batch: 31301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2688-1	S-1	Total/NA	Solid	Total BTEX	
890-2688-2	S-2	Total/NA	Solid	Total BTEX	
890-2688-3	S-3	Total/NA	Solid	Total BTEX	
890-2688-4	S-4	Total/NA	Solid	Total BTEX	
890-2688-5	S-5	Total/NA	Solid	Total BTEX	
890-2688-6	S-6	Total/NA	Solid	Total BTEX	
890-2688-7	S-7	Total/NA	Solid	Total BTEX	
890-2688-8	S-8	Total/NA	Solid	Total BTEX	
890-2688-9	S-9	Total/NA	Solid	Total BTEX	
890-2688-10	S-10	Total/NA	Solid	Total BTEX	
890-2688-11	S-11	Total/NA	Solid	Total BTEX	
890-2688-12	S-12	Total/NA	Solid	Total BTEX	
890-2688-13	S-13	Total/NA	Solid	Total BTEX	
890-2688-14	S-14	Total/NA	Solid	Total BTEX	
890-2688-15	SW-1	Total/NA	Solid	Total BTEX	
890-2688-16	SW-2	Total/NA	Solid	Total BTEX	
890-2688-17	SW-3	Total/NA	Solid	Total BTEX	
890-2688-18	SW-4	Total/NA	Solid	Total BTEX	
890-2688-19	BG-1	Total/NA	Solid	Total BTEX	
890-2688-20	BG-2	Total/NA	Solid	Total BTEX	
890-2688-21	BG-3	Total/NA	Solid	Total BTEX	

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## QC Association Summary

Client: H & R Enterprises  
Project/Site: (CB) CottonBerry 20 Fed 5H 6H

Job ID: 890-2688-1

## GC VOA (Continued)

## Analysis Batch: 31301 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2688-22	BG-4	Total/NA	Solid	Total BTEX	

## GC Semi VOA

## Analysis Batch: 31144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2688-13	S-13	Total/NA	Solid	8015B NM	31151
890-2688-14	S-14	Total/NA	Solid	8015B NM	31151
890-2688-15	SW-1	Total/NA	Solid	8015B NM	31151
890-2688-16	SW-2	Total/NA	Solid	8015B NM	31151
890-2688-17	SW-3	Total/NA	Solid	8015B NM	31151
890-2688-18	SW-4	Total/NA	Solid	8015B NM	31151
890-2688-19	BG-1	Total/NA	Solid	8015B NM	31151
890-2688-20	BG-2	Total/NA	Solid	8015B NM	31151
890-2688-21	BG-3	Total/NA	Solid	8015B NM	31151
890-2688-22	BG-4	Total/NA	Solid	8015B NM	31151
MB 880-31151/1-A	Method Blank	Total/NA	Solid	8015B NM	31151
LCS 880-31151/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	31151
LCSD 880-31151/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	31151

## Analysis Batch: 31146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2688-1	S-1	Total/NA	Solid	8015B NM	31153
890-2688-2	S-2	Total/NA	Solid	8015B NM	31153
890-2688-3	S-3	Total/NA	Solid	8015B NM	31153
890-2688-4	S-4	Total/NA	Solid	8015B NM	31153
890-2688-5	S-5	Total/NA	Solid	8015B NM	31153
890-2688-6	S-6	Total/NA	Solid	8015B NM	31153
890-2688-7	S-7	Total/NA	Solid	8015B NM	31153
890-2688-8	S-8	Total/NA	Solid	8015B NM	31153
890-2688-9	S-9	Total/NA	Solid	8015B NM	31153
890-2688-10	S-10	Total/NA	Solid	8015B NM	31153
890-2688-11	S-11	Total/NA	Solid	8015B NM	31153
890-2688-12	S-12	Total/NA	Solid	8015B NM	31153
MB 880-31153/1-A	Method Blank	Total/NA	Solid	8015B NM	31153
LCS 880-31153/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	31153
LCSD 880-31153/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	31153
890-2688-1 MS	S-1	Total/NA	Solid	8015B NM	31153
890-2688-1 MSD	S-1	Total/NA	Solid	8015B NM	31153

## Prep Batch: 31151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2688-13	S-13	Total/NA	Solid	8015NM Prep	
890-2688-14	S-14	Total/NA	Solid	8015NM Prep	
890-2688-15	SW-1	Total/NA	Solid	8015NM Prep	
890-2688-16	SW-2	Total/NA	Solid	8015NM Prep	
890-2688-17	SW-3	Total/NA	Solid	8015NM Prep	
890-2688-18	SW-4	Total/NA	Solid	8015NM Prep	
890-2688-19	BG-1	Total/NA	Solid	8015NM Prep	
890-2688-20	BG-2	Total/NA	Solid	8015NM Prep	
890-2688-21	BG-3	Total/NA	Solid	8015NM Prep	

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## QC Association Summary

Client: H &amp; R Enterprises

Job ID: 890-2688-1

Project/Site: (CB) CottonBerry 20 Fed 5H 6H

## GC Semi VOA (Continued)

## Prep Batch: 31151 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2688-22	BG-4	Total/NA	Solid	8015NM Prep	
MB 880-31151/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-31151/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-31151/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

## Prep Batch: 31153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2688-1	S-1	Total/NA	Solid	8015NM Prep	
890-2688-2	S-2	Total/NA	Solid	8015NM Prep	
890-2688-3	S-3	Total/NA	Solid	8015NM Prep	
890-2688-4	S-4	Total/NA	Solid	8015NM Prep	
890-2688-5	S-5	Total/NA	Solid	8015NM Prep	
890-2688-6	S-6	Total/NA	Solid	8015NM Prep	
890-2688-7	S-7	Total/NA	Solid	8015NM Prep	
890-2688-8	S-8	Total/NA	Solid	8015NM Prep	
890-2688-9	S-9	Total/NA	Solid	8015NM Prep	
890-2688-10	S-10	Total/NA	Solid	8015NM Prep	
890-2688-11	S-11	Total/NA	Solid	8015NM Prep	
890-2688-12	S-12	Total/NA	Solid	8015NM Prep	
MB 880-31153/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-31153/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-31153/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2688-1 MS	S-1	Total/NA	Solid	8015NM Prep	
890-2688-1 MSD	S-1	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 31229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2688-1	S-1	Total/NA	Solid	8015 NM	
890-2688-2	S-2	Total/NA	Solid	8015 NM	
890-2688-3	S-3	Total/NA	Solid	8015 NM	
890-2688-4	S-4	Total/NA	Solid	8015 NM	
890-2688-5	S-5	Total/NA	Solid	8015 NM	
890-2688-6	S-6	Total/NA	Solid	8015 NM	
890-2688-7	S-7	Total/NA	Solid	8015 NM	
890-2688-8	S-8	Total/NA	Solid	8015 NM	
890-2688-9	S-9	Total/NA	Solid	8015 NM	
890-2688-10	S-10	Total/NA	Solid	8015 NM	
890-2688-11	S-11	Total/NA	Solid	8015 NM	
890-2688-12	S-12	Total/NA	Solid	8015 NM	
890-2688-13	S-13	Total/NA	Solid	8015 NM	
890-2688-14	S-14	Total/NA	Solid	8015 NM	
890-2688-15	SW-1	Total/NA	Solid	8015 NM	
890-2688-16	SW-2	Total/NA	Solid	8015 NM	
890-2688-17	SW-3	Total/NA	Solid	8015 NM	
890-2688-18	SW-4	Total/NA	Solid	8015 NM	
890-2688-19	BG-1	Total/NA	Solid	8015 NM	
890-2688-20	BG-2	Total/NA	Solid	8015 NM	
890-2688-21	BG-3	Total/NA	Solid	8015 NM	
890-2688-22	BG-4	Total/NA	Solid	8015 NM	

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## QC Association Summary

Client: H &amp; R Enterprises

Job ID: 890-2688-1

Project/Site: (CB) CottonBerry 20 Fed 5H 6H

## HPLC/IC

## Leach Batch: 31186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2688-21	BG-3	Soluble	Solid	DI Leach	
890-2688-22	BG-4	Soluble	Solid	DI Leach	
MB 880-31186/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-31186/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-31186/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

## Leach Batch: 31187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2688-1	S-1	Soluble	Solid	DI Leach	
890-2688-2	S-2	Soluble	Solid	DI Leach	
890-2688-3	S-3	Soluble	Solid	DI Leach	
890-2688-4	S-4	Soluble	Solid	DI Leach	
890-2688-5	S-5	Soluble	Solid	DI Leach	
890-2688-6	S-6	Soluble	Solid	DI Leach	
890-2688-7	S-7	Soluble	Solid	DI Leach	
890-2688-8	S-8	Soluble	Solid	DI Leach	
890-2688-9	S-9	Soluble	Solid	DI Leach	
890-2688-10	S-10	Soluble	Solid	DI Leach	
890-2688-11	S-11	Soluble	Solid	DI Leach	
890-2688-12	S-12	Soluble	Solid	DI Leach	
890-2688-13	S-13	Soluble	Solid	DI Leach	
890-2688-14	S-14	Soluble	Solid	DI Leach	
890-2688-15	SW-1	Soluble	Solid	DI Leach	
890-2688-16	SW-2	Soluble	Solid	DI Leach	
890-2688-17	SW-3	Soluble	Solid	DI Leach	
890-2688-18	SW-4	Soluble	Solid	DI Leach	
890-2688-19	BG-1	Soluble	Solid	DI Leach	
890-2688-20	BG-2	Soluble	Solid	DI Leach	
MB 880-31187/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-31187/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-31187/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2688-1 MS	S-1	Soluble	Solid	DI Leach	
890-2688-1 MSD	S-1	Soluble	Solid	DI Leach	
890-2688-11 MS	S-11	Soluble	Solid	DI Leach	
890-2688-11 MSD	S-11	Soluble	Solid	DI Leach	

## Analysis Batch: 31226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2688-21	BG-3	Soluble	Solid	300.0	31186
890-2688-22	BG-4	Soluble	Solid	300.0	31186
MB 880-31186/1-A	Method Blank	Soluble	Solid	300.0	31186
LCS 880-31186/2-A	Lab Control Sample	Soluble	Solid	300.0	31186
LCSD 880-31186/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	31186

## Analysis Batch: 31227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2688-1	S-1	Soluble	Solid	300.0	31187
890-2688-2	S-2	Soluble	Solid	300.0	31187
890-2688-3	S-3	Soluble	Solid	300.0	31187
890-2688-4	S-4	Soluble	Solid	300.0	31187
890-2688-5	S-5	Soluble	Solid	300.0	31187

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## QC Association Summary

Client: H & R Enterprises  
Project/Site: (CB) CottonBerry 20 Fed 5H 6H

Job ID: 890-2688-1

## HPLC/IC (Continued)

## Analysis Batch: 31227 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2688-6	S-6	Soluble	Solid	300.0	31187
890-2688-7	S-7	Soluble	Solid	300.0	31187
890-2688-8	S-8	Soluble	Solid	300.0	31187
890-2688-9	S-9	Soluble	Solid	300.0	31187
890-2688-10	S-10	Soluble	Solid	300.0	31187
890-2688-11	S-11	Soluble	Solid	300.0	31187
890-2688-12	S-12	Soluble	Solid	300.0	31187
890-2688-13	S-13	Soluble	Solid	300.0	31187
890-2688-14	S-14	Soluble	Solid	300.0	31187
890-2688-15	SW-1	Soluble	Solid	300.0	31187
890-2688-16	SW-2	Soluble	Solid	300.0	31187
890-2688-17	SW-3	Soluble	Solid	300.0	31187
890-2688-18	SW-4	Soluble	Solid	300.0	31187
890-2688-19	BG-1	Soluble	Solid	300.0	31187
890-2688-20	BG-2	Soluble	Solid	300.0	31187
MB 880-31187/1-A	Method Blank	Soluble	Solid	300.0	31187
LCS 880-31187/2-A	Lab Control Sample	Soluble	Solid	300.0	31187
LCSD 880-31187/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	31187
890-2688-1 MS	S-1	Soluble	Solid	300.0	31187
890-2688-1 MSD	S-1	Soluble	Solid	300.0	31187
890-2688-11 MS	S-11	Soluble	Solid	300.0	31187
890-2688-11 MSD	S-11	Soluble	Solid	300.0	31187

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## Lab Chronicle

Client: H & R Enterprises  
Project/Site: (CB) CottonBerry 20 Fed 5H 6H

Job ID: 890-2688-1

## Client Sample ID: S-1

Lab Sample ID: 890-2688-1

Date Collected: 07/29/22 00:00

Matrix: Solid

Date Received: 07/29/22 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	31155	08/01/22 09:07	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31148	08/01/22 18:20	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31301	08/02/22 10:55	SM	XEN MID
Total/NA	Analysis	8015 NM		1			31229	08/01/22 16:58	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	31153	08/01/22 09:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31146	08/01/22 11:36	SM	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	31187	08/01/22 09:50	SMC	XEN MID
Soluble	Analysis	300.0		1			31227	08/01/22 18:36	SMC	XEN MID

## Client Sample ID: S-2

Lab Sample ID: 890-2688-2

Date Collected: 07/29/22 00:00

Matrix: Solid

Date Received: 07/29/22 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	31155	08/01/22 09:07	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31148	08/01/22 18:40	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31301	08/02/22 10:55	SM	XEN MID
Total/NA	Analysis	8015 NM		1			31229	08/01/22 16:58	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	31153	08/01/22 09:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31146	08/01/22 12:41	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	31187	08/01/22 09:50	SMC	XEN MID
Soluble	Analysis	300.0		1			31227	08/01/22 13:55	SMC	XEN MID

## Client Sample ID: S-3

Lab Sample ID: 890-2688-3

Date Collected: 07/29/22 00:00

Matrix: Solid

Date Received: 07/29/22 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	31155	08/01/22 09:07	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31148	08/01/22 19:01	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31301	08/02/22 10:55	SM	XEN MID
Total/NA	Analysis	8015 NM		1			31229	08/01/22 16:58	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31153	08/01/22 09:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31146	08/01/22 13:03	SM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	31187	08/01/22 09:50	SMC	XEN MID
Soluble	Analysis	300.0		1			31227	08/01/22 14:04	SMC	XEN MID

## Client Sample ID: S-4

Lab Sample ID: 890-2688-4

Date Collected: 07/29/22 00:00

Matrix: Solid

Date Received: 07/29/22 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	31155	08/01/22 09:07	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31148	08/01/22 19:22	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31301	08/02/22 10:55	SM	XEN MID

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## Lab Chronicle

Client: H & R Enterprises  
Project/Site: (CB) CottonBerry 20 Fed 5H 6H

Job ID: 890-2688-1

## Client Sample ID: S-4

Lab Sample ID: 890-2688-4

Date Collected: 07/29/22 00:00

Matrix: Solid

Date Received: 07/29/22 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			31229	08/01/22 16:58	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	31153	08/01/22 09:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31146	08/01/22 13:25	SM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	31187	08/01/22 09:50	SMC	XEN MID
Soluble	Analysis	300.0		1			31227	08/01/22 14:13	SMC	XEN MID

## Client Sample ID: S-5

Lab Sample ID: 890-2688-5

Date Collected: 07/29/22 00:00

Matrix: Solid

Date Received: 07/29/22 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	31155	08/01/22 09:07	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31148	08/01/22 19:42	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31301	08/02/22 10:55	SM	XEN MID
Total/NA	Analysis	8015 NM		1			31229	08/01/22 16:58	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	31153	08/01/22 09:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31146	08/01/22 13:47	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	31187	08/01/22 09:50	SMC	XEN MID
Soluble	Analysis	300.0		5			31227	08/01/22 14:22	SMC	XEN MID

## Client Sample ID: S-6

Lab Sample ID: 890-2688-6

Date Collected: 07/29/22 00:00

Matrix: Solid

Date Received: 07/29/22 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	31155	08/01/22 09:07	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31148	08/01/22 20:03	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31301	08/02/22 10:55	SM	XEN MID
Total/NA	Analysis	8015 NM		1			31229	08/01/22 16:58	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	31153	08/01/22 09:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31146	08/01/22 14:08	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	31187	08/01/22 09:50	SMC	XEN MID
Soluble	Analysis	300.0		1			31227	08/01/22 14:50	SMC	XEN MID

## Client Sample ID: S-7

Lab Sample ID: 890-2688-7

Date Collected: 07/29/22 00:00

Matrix: Solid

Date Received: 07/29/22 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	31029	08/01/22 10:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31185	08/01/22 16:34	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31301	08/02/22 10:55	SM	XEN MID
Total/NA	Analysis	8015 NM		1			31229	08/01/22 16:58	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	31153	08/01/22 09:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31146	08/01/22 14:30	SM	XEN MID

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## Lab Chronicle

Client: H & R Enterprises  
Project/Site: (CB) CottonBerry 20 Fed 5H 6H

Job ID: 890-2688-1

## Client Sample ID: S-7

## Lab Sample ID: 890-2688-7

Date Collected: 07/29/22 00:00

Matrix: Solid

Date Received: 07/29/22 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	31187	08/01/22 09:50	SMC	XEN MID
Soluble	Analysis	300.0		1			31227	08/01/22 14:59	SMC	XEN MID

## Client Sample ID: S-8

## Lab Sample ID: 890-2688-8

Date Collected: 07/29/22 00:00

Matrix: Solid

Date Received: 07/29/22 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	31029	08/01/22 10:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31185	08/01/22 16:54	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31301	08/02/22 10:55	SM	XEN MID
Total/NA	Analysis	8015 NM		1			31229	08/01/22 16:58	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	31153	08/01/22 09:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31146	08/01/22 14:52	SM	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	31187	08/01/22 09:50	SMC	XEN MID
Soluble	Analysis	300.0		1			31227	08/01/22 15:08	SMC	XEN MID

## Client Sample ID: S-9

## Lab Sample ID: 890-2688-9

Date Collected: 07/29/22 00:00

Matrix: Solid

Date Received: 07/29/22 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	31029	08/01/22 10:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31185	08/01/22 17:14	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31301	08/02/22 10:55	SM	XEN MID
Total/NA	Analysis	8015 NM		1			31229	08/01/22 16:58	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31153	08/01/22 09:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31146	08/01/22 15:13	SM	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	31187	08/01/22 09:50	SMC	XEN MID
Soluble	Analysis	300.0		1			31227	08/01/22 19:04	SMC	XEN MID

## Client Sample ID: S-10

## Lab Sample ID: 890-2688-10

Date Collected: 07/29/22 00:00

Matrix: Solid

Date Received: 07/29/22 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	31029	08/01/22 10:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31185	08/01/22 17:35	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31301	08/02/22 10:55	SM	XEN MID
Total/NA	Analysis	8015 NM		1			31229	08/01/22 16:58	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	31153	08/01/22 09:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31146	08/01/22 15:35	SM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	31187	08/01/22 09:50	SMC	XEN MID
Soluble	Analysis	300.0		1			31227	08/01/22 15:27	SMC	XEN MID

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## Lab Chronicle

Client: H & R Enterprises  
Project/Site: (CB) CottonBerry 20 Fed 5H 6H

Job ID: 890-2688-1

Client Sample ID: S-11

Lab Sample ID: 890-2688-11

Date Collected: 07/29/22 00:00

Matrix: Solid

Date Received: 07/29/22 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	31029	08/01/22 10:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31185	08/01/22 17:55	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31301	08/02/22 10:55	SM	XEN MID
Total/NA	Analysis	8015 NM		1			31229	08/01/22 16:58	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31153	08/01/22 09:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31146	08/01/22 16:19	SM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	31187	08/01/22 09:50	SMC	XEN MID
Soluble	Analysis	300.0		1			31227	08/01/22 15:36	SMC	XEN MID

Client Sample ID: S-12

Lab Sample ID: 890-2688-12

Date Collected: 07/29/22 00:00

Matrix: Solid

Date Received: 07/29/22 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	31029	08/01/22 10:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31185	08/01/22 19:46	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31301	08/02/22 10:55	SM	XEN MID
Total/NA	Analysis	8015 NM		1			31229	08/01/22 16:58	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	31153	08/01/22 09:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31146	08/01/22 16:40	SM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	31187	08/01/22 09:50	SMC	XEN MID
Soluble	Analysis	300.0		1			31227	08/01/22 19:13	SMC	XEN MID

Client Sample ID: S-13

Lab Sample ID: 890-2688-13

Date Collected: 07/29/22 00:00

Matrix: Solid

Date Received: 07/29/22 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	31029	08/01/22 10:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31185	08/01/22 20:07	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31301	08/02/22 10:55	SM	XEN MID
Total/NA	Analysis	8015 NM		1			31229	08/01/22 16:58	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	31151	08/01/22 08:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31144	08/01/22 12:41	SM	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	31187	08/01/22 09:50	SMC	XEN MID
Soluble	Analysis	300.0		1			31227	08/01/22 16:13	SMC	XEN MID

Client Sample ID: S-14

Lab Sample ID: 890-2688-14

Date Collected: 07/29/22 00:00

Matrix: Solid

Date Received: 07/29/22 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	31029	08/01/22 10:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31185	08/01/22 20:27	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31301	08/02/22 10:55	SM	XEN MID

Eurofins Carlsbad

## Lab Chronicle

Client: H & R Enterprises  
Project/Site: (CB) CottonBerry 20 Fed 5H 6H

Job ID: 890-2688-1

## Client Sample ID: S-14

## Lab Sample ID: 890-2688-14

Date Collected: 07/29/22 00:00

Matrix: Solid

Date Received: 07/29/22 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			31229	08/01/22 16:58	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31151	08/01/22 08:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31144	08/01/22 13:03	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	31187	08/01/22 09:50	SMC	XEN MID
Soluble	Analysis	300.0		1			31227	08/01/22 16:40	SMC	XEN MID

## Client Sample ID: SW-1

## Lab Sample ID: 890-2688-15

Date Collected: 07/29/22 00:00

Matrix: Solid

Date Received: 07/29/22 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	31029	08/01/22 10:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31185	08/01/22 20:47	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31301	08/02/22 10:55	SM	XEN MID
Total/NA	Analysis	8015 NM		1			31229	08/01/22 16:58	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	31151	08/01/22 08:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31144	08/01/22 13:25	SM	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	31187	08/01/22 09:50	SMC	XEN MID
Soluble	Analysis	300.0		5			31227	08/01/22 16:50	SMC	XEN MID

## Client Sample ID: SW-2

## Lab Sample ID: 890-2688-16

Date Collected: 07/29/22 00:00

Matrix: Solid

Date Received: 07/29/22 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	31029	08/01/22 10:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31185	08/01/22 21:08	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31301	08/02/22 10:55	SM	XEN MID
Total/NA	Analysis	8015 NM		1			31229	08/01/22 16:58	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	31151	08/01/22 08:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31144	08/01/22 13:47	SM	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	31187	08/01/22 09:50	SMC	XEN MID
Soluble	Analysis	300.0		1			31227	08/01/22 16:59	SMC	XEN MID

## Client Sample ID: SW-3

## Lab Sample ID: 890-2688-17

Date Collected: 07/29/22 00:00

Matrix: Solid

Date Received: 07/29/22 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	31029	08/01/22 10:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31185	08/01/22 21:28	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31301	08/02/22 10:55	SM	XEN MID
Total/NA	Analysis	8015 NM		1			31229	08/01/22 16:58	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	31151	08/01/22 08:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31144	08/01/22 14:08	SM	XEN MID

Eurofins Carlsbad

## Lab Chronicle

Client: H & R Enterprises  
Project/Site: (CB) CottonBerry 20 Fed 5H 6H

Job ID: 890-2688-1

## Client Sample ID: SW-3

Lab Sample ID: 890-2688-17

Date Collected: 07/29/22 00:00

Matrix: Solid

Date Received: 07/29/22 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	31187	08/01/22 09:50	SMC	XEN MID
Soluble	Analysis	300.0		1			31227	08/01/22 17:08	SMC	XEN MID

## Client Sample ID: SW-4

Lab Sample ID: 890-2688-18

Date Collected: 07/29/22 00:00

Matrix: Solid

Date Received: 07/29/22 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	31029	08/01/22 10:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31185	08/01/22 21:49	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31301	08/02/22 10:55	SM	XEN MID
Total/NA	Analysis	8015 NM		1			31229	08/01/22 16:58	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	31151	08/01/22 08:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31144	08/01/22 14:30	SM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	31187	08/01/22 09:50	SMC	XEN MID
Soluble	Analysis	300.0		1			31227	08/01/22 17:17	SMC	XEN MID

## Client Sample ID: BG-1

Lab Sample ID: 890-2688-19

Date Collected: 07/29/22 00:00

Matrix: Solid

Date Received: 07/29/22 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	31029	08/01/22 10:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31185	08/01/22 22:09	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31301	08/02/22 10:55	SM	XEN MID
Total/NA	Analysis	8015 NM		1			31229	08/01/22 16:58	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	31151	08/01/22 08:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31144	08/01/22 14:52	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	31187	08/01/22 09:50	SMC	XEN MID
Soluble	Analysis	300.0		1			31227	08/01/22 17:26	SMC	XEN MID

## Client Sample ID: BG-2

Lab Sample ID: 890-2688-20

Date Collected: 07/29/22 00:00

Matrix: Solid

Date Received: 07/29/22 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	31029	08/01/22 10:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31185	08/01/22 22:30	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31301	08/02/22 10:55	SM	XEN MID
Total/NA	Analysis	8015 NM		1			31229	08/01/22 16:58	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31151	08/01/22 08:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31144	08/01/22 15:13	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	31187	08/01/22 09:50	SMC	XEN MID
Soluble	Analysis	300.0		1			31227	08/01/22 17:36	SMC	XEN MID

Eurofins Carlsbad

## Lab Chronicle

Client: H & R Enterprises  
Project/Site: (CB) CottonBerry 20 Fed 5H 6H

Job ID: 890-2688-1

Client Sample ID: BG-3

Lab Sample ID: 890-2688-21

Date Collected: 07/29/22 00:00

Matrix: Solid

Date Received: 07/29/22 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	31029	08/01/22 10:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31185	08/01/22 22:50	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31301	08/02/22 10:55	SM	XEN MID
Total/NA	Analysis	8015 NM		1			31229	08/01/22 16:58	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	31151	08/01/22 08:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31144	08/01/22 15:35	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	31186	08/01/22 09:45	SMC	XEN MID
Soluble	Analysis	300.0		1			31226	08/01/22 13:17	SMC	XEN MID

Client Sample ID: BG-4

Lab Sample ID: 890-2688-22

Date Collected: 07/29/22 00:00

Matrix: Solid

Date Received: 07/29/22 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	31170	08/01/22 10:04	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31148	08/01/22 23:07	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			31301	08/02/22 10:55	SM	XEN MID
Total/NA	Analysis	8015 NM		1			31229	08/01/22 16:58	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31151	08/01/22 08:56	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31144	08/01/22 16:19	SM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	31186	08/01/22 09:45	SMC	XEN MID
Soluble	Analysis	300.0		1			31226	08/01/22 13:25	SMC	XEN MID

## Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

Accreditation/Certification Summary

Client: H & R Enterprises  
Project/Site: (CB) CottonBerry 20 Fed 5H 6H

Job ID: 890-2688-1

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

1
2
3
4
5
6
7
8
9
10
11
12
13
14



## Method Summary

Client: H & R Enterprises  
Project/Site: (CB) CottonBerry 20 Fed 5H 6H

Job ID: 890-2688-1

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

**Protocol References:**

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

**Laboratory References:**

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

## Sample Summary

Client: H &amp; R Enterprises

Job ID: 890-2688-1

Project/Site: (CB) CottonBerry 20 Fed 5H 6H

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2688-1	S-1	Solid	07/29/22 00:00	07/29/22 13:05	3
890-2688-2	S-2	Solid	07/29/22 00:00	07/29/22 13:05	3
890-2688-3	S-3	Solid	07/29/22 00:00	07/29/22 13:05	3
890-2688-4	S-4	Solid	07/29/22 00:00	07/29/22 13:05	3
890-2688-5	S-5	Solid	07/29/22 00:00	07/29/22 13:05	3
890-2688-6	S-6	Solid	07/29/22 00:00	07/29/22 13:05	3
890-2688-7	S-7	Solid	07/29/22 00:00	07/29/22 13:05	3
890-2688-8	S-8	Solid	07/29/22 00:00	07/29/22 13:05	3
890-2688-9	S-9	Solid	07/29/22 00:00	07/29/22 13:05	3
890-2688-10	S-10	Solid	07/29/22 00:00	07/29/22 13:05	3
890-2688-11	S-11	Solid	07/29/22 00:00	07/29/22 13:05	3
890-2688-12	S-12	Solid	07/29/22 00:00	07/29/22 13:05	3
890-2688-13	S-13	Solid	07/29/22 00:00	07/29/22 13:05	3
890-2688-14	S-14	Solid	07/29/22 00:00	07/29/22 13:05	3
890-2688-15	SW-1	Solid	07/29/22 00:00	07/29/22 13:05	3
890-2688-16	SW-2	Solid	07/29/22 00:00	07/29/22 13:05	3
890-2688-17	SW-3	Solid	07/29/22 00:00	07/29/22 13:05	3
890-2688-18	SW-4	Solid	07/29/22 00:00	07/29/22 13:05	3
890-2688-19	BG-1	Solid	07/29/22 00:00	07/29/22 13:05	3
890-2688-20	BG-2	Solid	07/29/22 00:00	07/29/22 13:05	3
890-2688-21	BG-3	Solid	07/29/22 00:00	07/29/22 13:05	3
890-2688-22	BG-4	Solid	07/29/22 00:00	07/29/22 13:05	3

## Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300  
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334  
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296  
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199



Environment Testing  
Xenco

Work Order No: \_\_\_\_\_

www.xenco.com Page 1 of 3

Project Manager:	M Collier	Bill to: (if different)	Company Name:	Limrex Energy
Company Name:	H&R Enterprises	Address:	City, State ZIP:	Attn: Laci Luy
Address:	Hobbs, NM	City, State ZIP:	City, State ZIP:	
City, State ZIP:	575-908-0326	Email:	Mcollier@h-r-enterprises.com	
Phone:				

Project Name:	(CB) Cottonberry 30 Feathers	Turn Around	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	Pres. Code	
Project Number:		Due Date:	24HR		
Project Location:	Eddy County, NM	TAT starts the day received by the lab, if received by 4:30pm			
Sampler's Name:	Roy Bell				
P.O. #:					

SAMPLE RECEIPT		Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	701A-007		
Cooler Custody Seals:	Yes No	Correction Factor:	-0.2		
Sample Custody Seals:	Yes No	Temperature Reading:	8.0		
Total Containers:		Corrected Temperature:	7.8		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	ANALYSIS REQUEST	Preservative Codes	Sample Comments
S-1	soil	7/29/22		3'	G	1	BTX TPH Chlorides		None: NO Cool: Cool HCL: HC H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> H <sub>3</sub> PO <sub>4</sub> : HP NaHSO <sub>4</sub> : NABIS Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub> Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC	
S-2										
S-3										
S-4										
S-5										
S-6										
S-7										
S-8										
S-9										
S-10										

Total	2007/6010	2008/6020:	8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO <sub>2</sub> Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed	TCLP/SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471		

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>Roy Bell</i>	<i>Joe GAP</i>	7-29-22 1305

Revised Date: 08/23/2020 Rev. 2020.2

## Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300  
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334  
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296  
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

**Environment Testing**  
**Xenco**



**Work Order No:**

www.xenco.com

Work Order Comments											
Program:		UST/PST	<input type="checkbox"/>	PRP	<input type="checkbox"/>	Brownfields	<input type="checkbox"/>	RRC	<input type="checkbox"/>	Superfund	<input type="checkbox"/>
State of Project:											
Reporting:		Level I	<input type="checkbox"/>	Level II	<input type="checkbox"/>	Level III	<input type="checkbox"/>	PST/UST	<input type="checkbox"/>	TRRP	<input type="checkbox"/>
Deliverables:		EDD	<input type="checkbox"/>	ADAPT	<input type="checkbox"/>	Other:					

Project Manager:	MICHAEL COLLIER	Bill to: (if different)	CIMAREX ENERGY
Company Name:	HAR ENTERPRISES	Company Name:	ATTN: LACI LUGO
Address:		Address:	
City, State ZIP:	HOBBBS, NM	City, State ZIP:	
Phone:	575-469-0376	Email:	MCOLLIER@H-ENTERPRISES.COM

[illegible]

Total	200.7 / 6010	200.8 / 6020:	8RCRA	13PPM	Texas 11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	SiO <sub>2</sub>	Na	Sr	Tl	Sn	U	V	Zn
Circle Method(s) and Metal(s) to be analyzed			TCLP / SPLP 6010 : 8RCRA		Sb	As	Ba	Be	Cd	Cr	Cu	Pb	Mn	Mo	Ni	Se	Ag	Tl	U	Hg: 1631 / 245.1 / 7470 / 7471												

**Notice:** Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco. Its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of service. Eurofins Xenco cannot accept liability for any loss or damage to samples submitted for analysis unless the sample was damaged while in the possession of Eurofins Xenco. These terms will be enforced unless previously negotiated in writing.

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
3	[Signature]	[Signature]	7-29-22			
4						
6						

Revised Date: 08/25/2020 Rev. 2020.2



## Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300  
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334  
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296  
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Environment Testing  
Xenco



Work Order No:

www.xenco.com Page 3 of 3

Project Manager:		MICHAEL COLLIER	
Company Name:		HAR ENTERPRISES	
Address:		HOBBS, NM	
City, State ZIP:		575-909-0326	
Phone:			

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## Login Sample Receipt Checklist

Client: H &amp; R Enterprises

Job Number: 890-2688-1

Login Number: 2688

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



## Login Sample Receipt Checklist

Client: H &amp; R Enterprises

Job Number: 890-2688-1

Login Number: 2688

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 08/01/22 08:22 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 135450

**CONDITIONS**

Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID: 215099
	Action Number: 135450
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NAPP2213171033 COTTONBERRY 20 FEDERAL 1H,5H-6H BATTERY, thank you. This closure is approved.	8/22/2022