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

\_)

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Incident ID	APP2107529251
District RP	
Facility ID	
Application ID	

# **Release Notification**

# **Responsible Party**

Responsible Party TapRock Operating LLC.	OGRID 37243
Contact Name Christian Combs	Contact Telephone (720) 360-4028
Contact email ccombs@taprk.com	Incident # (assigned by OCD) APP2107529251
Contact mailing address <b>523 Park Point Dr #200</b>	Golden, CO, 80401

# **Location of Release Source**

Latitude 32.00285\_

(NAD 83 in decimal degrees to 5 decimal places)

Site Name Nailed It Fed Com #234	Site Type Well	
Date Release Discovered 3/8/21	API# (if applicable)	

Unit Letter	Section	Township	Range	County
В	36	268	30E	Eddy

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

# Nature and Volume of Release

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

Crude Oil	Volume Released (bbls) 2	Volume Recovered (bbls) 2	
Produced Water Volume Released (bbls) 7		Volume Recovered (bbls) 7	
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No	
Condensate	Volume Released (bbls)	Volume Recovered (bbls)	
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)	
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)	

Cause of Release

Produced sand eroded the flowline resulting in a release.

Page 2

# Oil Conservation Division

Incident ID	APP2107529251
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Was this a major	If YES, for what reason(s) does the responsible party consider this a major release?
release as defined by	
19.15.29.7(A) NMAC?	
🗌 Yes 🖾 No	
If YES, was immediate n	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

# **Initial Response**

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

 $\square$  The source of the release has been stopped.

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

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

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

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

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

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

Printed Name: _Christian Combs	Title: _EHSR Manager
Signature:	Date:
email: _ccombs@taprk.com	Telephone: (720) 360-4028
OCD Only	
Received by:	Date:

Oil Conservation Division

	Page 3 of 41
Incident ID	APP2107529251
District RP	
Facility ID	
Application ID	

# Site Assessment/Characterization

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

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

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

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

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

Laboratory data including chain of custody

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

Received by OCD	: 11/16/2021 4:18:38 PM State of New Mexico			Page 4 of 4
			Incident ID	APP2107529251
Page 4 Oil Conservation Di			District RP	
			Facility ID	
			Application ID	
regulations all op public health or ti failed to adequate addition, OCD ac and/or regulation Printed Name:	hat the information given above is true and complete to the erators are required to report and/or file certain release not he environment. The acceptance of a C-141 report by the ely investigate and remediate contamination that pose a thr cceptance of a C-141 report does not relieve the operator o s. Christian Combs	tifications and perfo OCD does not relie reat to groundwater, f responsibility for o 	rm corrective actions for relevente operator of liability ships surface water, human health compliance with any other features EHSR Manager 2021	eases which may endanger ould their operations have or the environment. In deral, state, or local laws
OCD Only Received by:		Date:		

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Oil Conservation Division

Incident ID	APP2107529251	
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Facility ID		
Application ID		

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# 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 A 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:
 Christian Combs
 Title:
 EHSR Manager

 Signature:
 Date:
 11/16/2021

 Telephone: \_\_\_\_ (720) 360-4028 email: ccombs@taprk.com **OCD Only** Received by: Chad Hensley Date: 12/20/2021 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. Char There are Date: 12/20/2021 Closure Approved by: Printed Name: Chad Hensley Title: Environmental Specialist Advanced





CDH Consulting, LLC Thornton, Colorado 720.431.7468 www.CDHConsult.com

# Soil Assessment and Remediation Work Plan:

Nailed It Fed Com #234 Incident # nAPP2107529251

# **Prepared For:**

Tap Rock Resources, LLC. Golden, CO

# Prepared By:

CDH Consulting Thornton, CO



CDH Consulting, LLC Thornton, Colorado 720.431.7468 www.CDHConsult.com

Subject: Soil Assessment and Closure Report Nailed It Fed Com #234 Incident # nAPP2107529251

To Whom it May Concern,

Tap Rock Resources LLC (Tap Rock) has contracted CDH Consulting LLC (CDH) to preform appropriate remediation services at the Cypress 34B CTB (Site). The results of our soil assessment and proposed remediation activities are described in the following pages. As a result of the site remediation activities, Tap Rock is requesting Closure and no further action on Incident Number APP2116533180.

# SITE INFORMATION

The release at the Site is located approximately 20 miles Southeast of Malaga New Mexico (NM), in Unit B, Section 36, Township 26S, Range 30E, Eddy County, NM.

On March 8, 2021, a flowline failed, resulting in the release of 2 barrels (bbls) of crude oil and 7 bbls of produced water onto the surrounding well pad. The location of the release is shown on Figure 1. Upon discovery, crews arrived onsite to recover and freestanding fluids. Approximately 2 bbls of crude oil and 7 bbls of produced water was recovered.

Tap Rock submitted a form C-141 on April 12, 2021 and was assigned Incident Number nAPP2116533180.

# **GROUNDWATER AND SITE RANKING**

The closest significant watercourse is an unnamed riverine located approximately 700 feet northwest of the release location.

Based on the closest groundwater well to the Site, USGS groundwater well 320125103514701, located approximately 2.5 miles northwest of the Site, depth to groundwater is 117 feet below ground surface (bgs). This well was most recently measured in October 1987. There are three other relevant groundwater wells in the area within 5.75 miles of the site, the most recently measured well, USGS well 320016103434201, was measured in January 1998 and was determined to have a depth to water of 183 feet bgs.

As outlined in Table 1 of 19.15.29.12 NMAC, the applicable Closer Criteria for the Site is as follows;

- 10 mg/kg Benzene
- 50 mg/kg Total BTEX (Benzene, Toluene, Ethylbenzene, Total Xylenes)
- 1,000 mg/kg GRO + DRO
- 2,500 mg/kg Total TPH
- 20,000 mg/kg Chlorides



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### SITE INVESTIGATION AND EXCAVATION

After delays due to ongoing drilling and flow-back operations at the Site, on June 1, 2021 CDH employees visited the Site to visually assess the impact of the crude oil and produced water release. Impacted soil was removed initially at the time of release by hydrovac, then additionally with a backhoe. Approximately 209 cubic yards of impacted soil were excavated and transported to R360 Environmental Solutions, a licensed disposal facility. The field excavation crew visually inspected the impacted area to determine the extent of the release. CDH employee then returned to the Site on September 9, 2021 in order to collect confirmation soil samples inside the release extent to confirm all impacted soil was removed. Photos of the site during sampling are included as Attachment 1.

A total of 5 samples were collected in the impacted area, as shown on Figure 1, and analyzed for chlorides, total petroleum hydrocarbons (TPH) including gasoline range organics (GRO), diesel range organics (DRO), and motor oil/lube organics (MRO), benzene, toluene, ethylbenzene, total xylenes (BTEX). Laboratory analytical results are summarized in Table 1 and laboratory data is included as Attachment 2. Sample results were compared to 19.15.29.12(C) (4) NMAC, Table I, Depth to ground water greater than 100 feet. At the completion of excavation, all samples were compliant with Closure Criteria. At the completion of excavation activities, no samples were above Table I standards.

## CONCLUSION

The final excavation extent was approximately 209 cubic yards of impacted soil. At the completion of soil remediation efforts, all five samples were compliant with the Closure Criteria for the Site. The location has been backfilled with clean soil and graded with the rest of the production pad.



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# **ATTACHMENT 1**

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# **ATTACHMENT 2**

# 🔅 eurofins

# Environment Testing America

# **ANALYTICAL REPORT**

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

# Laboratory Job ID: 890-1239-1

Laboratory Sample Delivery Group: Eddy County Client Project/Site: Nailed It 234H

# For:

CDH Consulting 9446 Clermont St, Thornton, Colorado 80229

Attn: Chris Del Hierro

henepvan

Authorized for release by: 9/15/2021 4:59:05 PM

Irene Vann, Project Manager (210)509-3334 irene.vann@eurofinset.com

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.

LINKS **Review your project** results through **Total** Access Have a Question? Ask-The Expert Visit us at: www.eurofinsus.com/Env

Released to Imaging: 12/20/2021 11:10:49 AM

Laboratory Job ID: 890-1239-1 SDG: Eddy County

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	Definitions/Glossary		
Client: CDH Co Project/Site: Na	onsulting	Job ID: 890-1239-1 SDG: Eddy County	ľ
Qualifiers			3
GC VOA			
Qualifier	Qualifier Description		
S1+	Surrogate recovery exceeds control limits, high biased.		
U	Indicates the analyte was analyzed for but not detected.		Ę
GC Semi VOA		7	
Qualifier	Qualifier Description		
S1+	Surrogate recovery exceeds control limits, high biased.		
U	Indicates the analyte was analyzed for but not detected.		
HPLC/IC		7	
Qualifier	Qualifier Description		
U	Indicates the analyte was analyzed for but not detected.	7	
		7	
Glossary			
Abbreviation	These commonly used abbreviations may or may not be present in this report.		
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	7	
%R	Percent Recovery		
CFL	Contains Free Liquid		
CFU	Colony Forming Unit		
CNF	Contains No Free Liquid	7	ļ
DER	Duplicate Error Ratio (normalized absolute difference)	7	P
Dil Fac	Dilution Factor	7	
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 MPN	Minimum Level (Dioxin) Most Probable Number		
MPN MQL	Most Probable Number Method Quantitation Limit		
NC	Nethod Quantitation Limit Not Calculated		
ND	Not Detected at the reporting limit (or MDL or EDL if shown)		
NEG	Not Detected at the reporting limit (or MDL or EDL if shown) 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)		
TEO			

Eurofins Xenco, Carlsbad

Toxicity Equivalent Quotient (Dioxin)

Too Numerous To Count

TEQ

TNTC

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4

Job ID: 890-1239-1 SDG: Eddy County

## Job ID: 890-1239-1

#### Laboratory: Eurofins Xenco, Carlsbad

#### Narrative

Job Narrative 890-1239-1

#### Receipt

The samples were received on 9/9/2021 3:58 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 4.0°C

#### GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: 234H-West (890-1239-4). Evidence of matrix interferences is not obvious.

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: 234H-North (890-1239-1) and (LCS 880-7797/2-A). Evidence of matrix interferences is not obvious.

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

#### HPLC/IC

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

RL

0.00201

MDL Unit

mg/Kg

D

Prepared

09/13/21 10:18

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Job ID: 890-1239-1 SDG: Eddy County

# **Client Sample ID: 234H-North**

Method: 8021B - Volatile Organic Compounds (GC)

Result Qualifier

<0.00201 U

Date Collected: 09/09/21 12:10 Date Received: 09/09/21 15:58

Sample Depth: 1

Analyte

Benzene

**Client: CDH Consulting** 

Project/Site: Nailed It 234H

Lab Sample ID: 890-1239-1

Analyzed

09/13/21 23:09

Lab Sample ID: 890-1239-2

Matrix: Solid

Matrix: Solid

Dil Fac

1

5

Chloride	20.7		4.99		mg/Kg			09/15/21 02:52	1
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
- Method: 300.0 - Anions, Ion Chr	omatography -	Soluble							
o-Terphenyl	135	S1+	70 - 130				09/13/21 09:36	09/13/21 11:49	1
1-Chlorooctane	120		70 - 130				09/13/21 09:36	09/13/21 11:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/13/21 09:36	09/13/21 11:49	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/13/21 09:36	09/13/21 11:49	1
Total TPH	<49.8		49.8		mg/Kg		09/13/21 09:36	09/13/21 11:49	1
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		09/13/21 09:36	09/13/21 11:49	1
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
1,4-Difluorobenzene (Surr)	110		70 - 130				09/13/21 10:18	09/13/21 23:09	1
4-Bromofluorobenzene (Surr)			70 - 130				09/13/21 10:18	09/13/21 23:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/13/21 10:18	09/13/21 23:09	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/13/21 10:18	09/13/21 23:09	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/13/21 10:18	09/13/21 23:09	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		09/13/21 10:18	09/13/21 23:09	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/13/21 10:18	09/13/21 23:09	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/13/21 10:18	09/13/21 23:09	1

## **Client Sample ID: 234H-East** Date Collected: 09/09/21 12:15 Date Received: 09/09/21 15:58

Sample Depth: 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00199	U	0.00199		mg/Kg		09/13/21 10:18	09/13/21 23:30	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/13/21 10:18	09/13/21 23:30	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/13/21 10:18	09/13/21 23:30	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		09/13/21 10:18	09/13/21 23:30	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/13/21 10:18	09/13/21 23:30	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/13/21 10:18	09/13/21 23:30	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/13/21 10:18	09/13/21 23:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				09/13/21 10:18	09/13/21 23:30	1
1,4-Difluorobenzene (Surr)	112		70 _ 130				09/13/21 10:18	09/13/21 23:30	1

Eurofins Xenco, Carlsbad

Released to Imaging: 12/20/2021 11:10:49 AM

RL

50.0

50.0

50.0

50.0

RL

5.01

Limits

70 - 130

70 - 130

MDL

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

MDL Unit

mg/Kg

D

D

Prepared

09/13/21 09:36

09/13/21 09:36

09/13/21 09:36

09/13/21 09:36

Prepared

09/13/21 09:36

09/13/21 09:36

Prepared

09/13/21 10:18

Job ID: 890-1239-1 SDG: Eddy County

# Client Sample ID: 234H-East

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

Method: 300.0 - Anions, Ion Chromatography - Soluble

Mathedu 2024 D. Valatila Organia Compounda (CC)

Result Qualifier

<50.0 U

<50.0 U

<50.0 U

<50.0 U

111

129

18.3

96

Result Qualifier

Qualifier

%Recovery

Date	Collected:	09/09/21	12:15
Date	<b>Received:</b>	09/09/21	15:58

Client: CDH Consulting Project/Site: Nailed It 234H

Sample Depth: 1

(GRO)-C6-C10 Total TPH

Gasoline Range Organics

Diesel Range Organics (Over

Oll Range Organics (Over C28-C36)

Analyte

C10-C28)

Surrogate

o-Terphenyl

Analyte

Chloride

1-Chlorooctane

# Lab Sample ID: 890-1239-2

Analyzed

09/13/21 12:52

09/13/21 12:52

09/13/21 12:52

09/13/21 12:52

Analyzed

09/13/21 12:52

09/13/21 12:52

Matrix: Solid

Dil Fac

Dil Fac

Dil Fac

Matrix: Solid

1

1

1

1

5

09/15/21 02:58 Lab Sample ID: 890-1239-3

09/13/21 23:50

Analyzed

**Client Sample ID: 234H-South** Date Collected: 09/09/21 12:20 Date Received: 09/09/21 15:58 Sample Depth: 1

1,4-Difluorobenzene (Surr)

lic Compounds (	(GC)							
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
< 0.00199	U	0.00199		mg/Kg		09/13/21 10:18	09/13/21 23:50	1
<0.00199	U	0.00199		mg/Kg		09/13/21 10:18	09/13/21 23:50	1
<0.00199	U	0.00199		mg/Kg		09/13/21 10:18	09/13/21 23:50	1
<0.00398	U	0.00398		mg/Kg		09/13/21 10:18	09/13/21 23:50	1
<0.00398	U	0.00398		mg/Kg		09/13/21 10:18	09/13/21 23:50	1
<0.00398	U	0.00398		mg/Kg		09/13/21 10:18	09/13/21 23:50	1
<0.00199	U	0.00199		mg/Kg		09/13/21 10:18	09/13/21 23:50	1
%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
121		70 - 130				09/13/21 10:18	09/13/21 23:50	1
	Result           <0.00199	<0.00199 U <0.00199 U <0.00398 U <0.00398 U <0.00398 U <0.00398 U <0.00199 U %Recovery Qualifier	Result         Qualifier         RL           <0.00199	Result         Qualifier         RL         MDL           <0.00199	Result         Qualifier         RL         MDL         Unit           <0.00199	Result         Qualifier         RL         MDL         Unit         D           <0.00199	Result         Qualifier         RL         MDL         Unit         D         Prepared           <0.00199	Result         Qualifier         RL         MDL         Unit         D         Prepared         Analyzed           <0.00199

70 - 130

#### Method: 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac <49.9 U Gasoline Range Organics 49.9 09/13/21 09:36 09/13/21 13:13 mg/Kg 1 (GRO)-C6-C10 Total TPH <49.9 U 49.9 09/13/21 09:36 09/13/21 13:13 mg/Kg 1 09/13/21 09:36 09/13/21 13:13 Diesel Range Organics (Over <49.9 U 49.9 mg/Kg 1 C10-C28) Oll Range Organics (Over C28-C36) <49.9 U 49.9 09/13/21 09:36 09/13/21 13:13 mg/Kg 1 Qualifier Surrogate %Recovery Dil Fac Limits Prepared Analyzed 70 - 130 09/13/21 09:36 09/13/21 13:13 1-Chlorooctane 108 1 70 - 130 124 09/13/21 09:36 09/13/21 13:13 o-Terphenyl 1 Method: 300.0 - Anions, Ion Chromatography - Soluble Analyte **Result Qualifier** MDL Dil Fac RL Unit D Prepared Analyzed Chloride 14.0 5 0 5 mg/Kg 09/15/21 03:15 1

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Released to Imaging: 12/20/2021 11:10:49 AM

RL

0.00200

0.00200

0.00200

0.00399

0.00399

0.00399

0.00200

Limits

70 - 130

70 - 130

MDL Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

D

Prepared

09/13/21 10:18

09/13/21 10:18

09/13/21 10:18

09/13/21 10:18

09/13/21 10:18

09/13/21 10:18

09/13/21 10:18

Prepared

09/13/21 10:18

09/13/21 10:18

Job ID: 890-1239-1 SDG: Eddy County

# Client Sample ID: 234H-West

Method: 8021B - Volatile Organic Compounds (GC)

Result Qualifier

<0.00200 U

<0.00200 U

<0.00399 U

<0.00399 U

<0.00399 U

<0.00200 U

%Recovery Qualifier

132 87 S1+

0.00369

Date Collected: 09/09/21 12:25 Date Received: 09/09/21 15:58

**Client: CDH Consulting** 

Sample Depth: 1

Analyte

Benzene

Toluene

Total BTEX

o-Xylene

Surrogate

Xylenes, Total

m-Xylene & p-Xylene

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Ethylbenzene

Project/Site: Nailed It 234H

Lab Sample ID: 890-1239-4

Analyzed

09/14/21 00:11

09/14/21 00:11

09/14/21 00:11

09/14/21 00:11

09/14/21 00:11

09/14/21 00:11

09/14/21 00:11

Analyzed

09/14/21 00:11

09/14/21 00:11

Lab Sample ID: 890-1239-5

Matrix: Solid

Matrix: Solid

Dil Fac

1

1

1

1

1

1

1

1

Dil Fac

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/13/21 09:36	09/13/21 13:34	1
Total TPH	<49.9	U	49.9		mg/Kg		09/13/21 09:36	09/13/21 13:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/13/21 09:36	09/13/21 13:34	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/13/21 09:36	09/13/21 13:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130				09/13/21 09:36	09/13/21 13:34	1
o-Terphenyl	145	S1+	70 - 130				09/13/21 09:36	09/13/21 13:34	1

# Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte		Qualifier RL	MDL Uni	t D	Prepared	Analyzed	Dil Fac
Chloride	17.8	4.97	mg	′Kg		09/15/21 03:20	1

### Client Sample ID: 234H-Base Date Collected: 09/09/21 12:30 Date Received: 09/09/21 15:58

Sample Depth: 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/13/21 10:18	09/14/21 00:31	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/13/21 10:18	09/14/21 00:31	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/13/21 10:18	09/14/21 00:31	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		09/13/21 10:18	09/14/21 00:31	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/13/21 10:18	09/14/21 00:31	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/13/21 10:18	09/14/21 00:31	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/13/21 10:18	09/14/21 00:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				09/13/21 10:18	09/14/21 00:31	1
1,4-Difluorobenzene (Surr)	103		70 - 130				09/13/21 10:18	09/14/21 00:31	1

Dil Fac

Dil Fac

1

1

# **Client Sample Results**

RL

49.8

49.8

49.8

49.8

Limits

70 - 130

70 - 130

MDL Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

D

Prepared

09/13/21 09:36

09/13/21 09:36

09/13/21 09:36

09/13/21 09:36

Prepared

09/13/21 09:36

09/13/21 09:36

**Client: CDH Consulting** Project/Site: Nailed It 234H

## **Client Sample ID: 234H-Base**

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

Result Qualifier

<49.8 U

<49.8 U

<49.8 U

<49.8 U

%Recovery Qualifier

110

119

Date Collected: 09/09/21 12:30 Date Received: 09/09/21 15:58

Sample Depth: 1

(GRO)-C6-C10 Total TPH

Gasoline Range Organics

Diesel Range Organics (Over

Oll Range Organics (Over C28-C36)

Analyte

C10-C28)

Surrogate

o-Terphenyl

1-Chlorooctane

# Lab Sample ID: 890-1239-5

Analyzed 09/13/21 13:56

09/13/21 13:56

09/13/21 13:56

09/13/21 13:56

Analyzed

09/13/21 13:56

09/13/21 13:56

Matrix: Solid

Job ID: 890-1239-1

SDG: Eddy County

I	1		ł	
	l		J	
		1		
		2		

Method: 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	17.8		4.95		mg/Kg			09/15/21 03:26	1	

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# Job ID: 890-1239-1 SDG: Eddy County

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

Prep Type: Total/NA Percent Surrogate Recovery (Acceptance Limits) BFB1 DFBZ1 Client Sample ID (70-130) (70-130) Lab Sample ID 890-1239-1 234H-North 113 110 890-1239-2 234H-East 113 112 890-1239-3 234H-South 121 96 234H-West 890-1239-4 132 S1+ 87 890-1239-5 234H-Base 110 103 LCS 880-7802/1-A Lab Control Sample 98 98 LCSD 880-7802/2-A Lab Control Sample Dup 98 99 MB 880-7802/5-A Method Blank 124 109 Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

#### Matrix: Solid

				Percent Surr
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-1239-1	234H-North	120	135 S1+	
890-1239-1 MS	234H-North	114	118	
890-1239-1 MSD	234H-North	111	116	
890-1239-2	234H-East	111	129	
890-1239-3	234H-South	108	124	
890-1239-4	234H-West	126	145 S1+	
890-1239-5	234H-Base	110	119	
LCS 880-7797/2-A	Lab Control Sample	127	131 S1+	
LCSD 880-7797/3-A	Lab Control Sample Dup	116	118	
MB 880-7797/1-A	Method Blank	102	111	

#### Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

6

3

Prep Type: Total/NA

# **QC Sample Results**

Method: 8021B - Volatile Organic Compounds (GC)

_ Lab Sample ID: MB 880-7802/5-	Α								Client S	ample ID: N	lethod	Blank
Matrix: Solid										Prep Ty		
Analysis Batch: 7820											Batch	
	N	IB MB										
Analyte	Res	ult Qualifier	R	L	MDL	Unit	D	Р	repared	Analyze	d	Dil Fac
Benzene	<0.002	00 U	0.0020	00		mg/Kg		09/1	3/21 10:18	09/13/21 1	7:06	1
Ethylbenzene	<0.002	00 U	0.0020	00		mg/Kg		09/1	3/21 10:18	09/13/21 1	7:06	1
Toluene	<0.002	00 U	0.0020	00		mg/Kg		09/1	3/21 10:18	09/13/21 1 <sup>-</sup>	7:06	1
Total BTEX	<0.004	00 U	0.0040	0		mg/Kg		09/1	3/21 10:18	09/13/21 1	7:06	1
Xylenes, Total	<0.004	00 U	0.0040	00		mg/Kg		09/1	3/21 10:18	09/13/21 1	7:06	1
m-Xylene & p-Xylene	<0.004	00 U	0.0040	00		mg/Kg		09/1	3/21 10:18	09/13/21 1 <sup>-</sup>	7:06	1
o-Xylene	<0.002	00 U	0.0020	0		mg/Kg		09/1	3/21 10:18	09/13/21 1	7:06	1
	л	MB MB										
Surrogate	%Recove		Limits					Р	repared	Analyze	d	Dil Fac
4-Bromofluorobenzene (Surr)	1	24	70 - 130	_				09/1	3/21 10:18	09/13/21 1	7:06	1
1,4-Difluorobenzene (Surr)	1	09	70 - 130					09/1	3/21 10:18	09/13/21 1	7:06	1
Analysis Batch: 7820			Spike		LCS	11 <b>1</b> 1 - 11 - 14			0/ D	%Rec.	Batch	: <b>7802</b>
Analyte			Added	Result	Qual			D	%Rec	Limits		
Benzene			0.100	0.09562		mg/k	•		96	70 - 130		
Ethylbenzene			0.100	0.1017		mg/k	-		102	70 - 130		
Toluene			0.100	0.09515		mg/k			95	70 - 130		
m-Xylene & p-Xylene			0.200	0.1829		mg/k	-		91	70 - 130		
o-Xylene			0.100	0.09161		mg/k	g		92	70 - 130		
	LCS L	cs										
Surrogate	%Recovery G	ualifier	Limits									
4-Bromofluorobenzene (Surr)	98		70 - 130									
1,4-Difluorobenzene (Surr)	98		70 - 130									
Lab Sample ID: LCSD 880-7802	/ <b>2-A</b>						Clien	t Sam	nple ID: L	ab Control	Sampl	le Dup
Matrix: Solid										Prep Ty		
Analysis Batch: 7820										Prep	Batch	: 7802
			Spike	LCSD	LCS	D				%Rec.		RPD
Analyte			Added	Result	Qual	lifier Unit		D	%Rec	Limits	RPD	Limit
Benzene			0.100	0.09300		mg/k	(g		93	70 - 130	3	35
Ethylbenzene			0.100	0.09909		mg/k	ģ		99	70 - 130	3	35
Toluene			0.100	0.1019		mg/k	a		102	70 <sub>-</sub> 130	7	35
IUIUEIIE			000	0.1010			5					
m-Xylene & p-Xylene			0.200	0.1777		mg/k			89	70 <sub>-</sub> 130	3	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 _ 130
1,4-Difluorobenzene (Surr)	99		70 - 130

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# QC Sample Results

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

Lab Sample ID: MB 880-7797/1-A										Client Sa	ample ID: I	Method	Blank
Matrix: Solid											Prep 7	Type: To	tal/NA
Analysis Batch: 7790											Pre	ep Batch	ı: 7797
		MB	MB										
Analyte	Re	∌sult	Qualifier	RL	·	MDL	Unit		D	Prepared	Analyz	zed	Dil Fac
Gasoline Range Organics	<	<50.0	U	50.0	,		mg/Kg			09/13/21 09:36	09/13/21	10:45	1
(GRO)-C6-C10													
Total TPH	</td <td>&lt;50.0</td> <td>U</td> <td>50.0</td> <td>i -</td> <td></td> <td>mg/Kg</td> <td></td> <td></td> <td>09/13/21 09:36</td> <td>09/13/21</td> <td>10:45</td> <td>1</td>	<50.0	U	50.0	i -		mg/Kg			09/13/21 09:36	09/13/21	10:45	1
Diesel Range Organics (Over	</td <td>&lt;50.0</td> <td>U</td> <td>50.0</td> <td>i.</td> <td></td> <td>mg/Kg</td> <td></td> <td></td> <td>09/13/21 09:36</td> <td>09/13/21</td> <td>10:45</td> <td>1</td>	<50.0	U	50.0	i.		mg/Kg			09/13/21 09:36	09/13/21	10:45	1
C10-C28)			•••	50 (						20/10/01 00:00	00/40/04	10.45	
Oll Range Organics (Over C28-C36)	<:	<50.0	U	50.0			mg/Kg			09/13/21 09:36	09/13/21 <sup>-</sup>	10:45	1
		ΜВ	МВ										
Surrogate	%Recov	very	Qualifier	Limits						Prepared	Analyz	zed	Dil Fac
1-Chlorooctane		102		70 - 130					-	09/13/21 09:36			1
o-Terphenyl		111		70 - 130						09/13/21 09:36	09/13/21	10:45	1
Lab Sample ID: LCS 880-7797/2-4	Α								<b>C</b> ′	lient Sample	ID: Lab Ce	ontrol S	ample
Matrix: Solid											Prep 7	Type: To	tal/NA
Analysis Batch: 7790												p Batch	
				Spike	LCS	LCS					%Rec.		
Analyte				Added	Result	Qual	ifier	Unit		D %Rec	Limits		
Gasoline Range Organics				1000	985.0			mg/Kg		99	70 - 130		
(GRO)-C6-C10													
Diesel Range Organics (Over				1000	1022			mg/Kg		102	70 - 130		
C10-C28)													
	LCS	LCS											
Surrogate	%Recovery			Limits									
1-Chlorooctane	127	-		70 - 130									
o-Terphenyl	131	S1+		70 - 130									
Lab Sample ID: LCSD 880-7797/3	<b>A-د</b>							Cli	ent	Sample ID: L	.ab Contrc	'Samp اد	ie Dup
Matrix: Solid										-		Type: To	
Analysis Batch: 7790												p Batch	
				Spike	LCSD	LCSE	3				%Rec.	·	RPD
Analyte				Added	Result	Qual	ifier	Unit		D %Rec	Limits	RPD	Limit
Gasoline Range Organics				1000	1017			mg/Kg		102	70 - 130	3	20
(GRO)-C6-C10								• -					
Diesel Range Organics (Over				1000	916.9			mg/Kg		92	70 - 130	11	20
C10-C28)													
	LCSD	LCS/	n										
Surrogate	%Recovery			Limits									
1-Chlorooctane	<sup>76</sup> Recovery 116	Guun	<u>nei</u>	70 - 130									
				10 - 100									

#### Lab Sample ID: 890-1239-1 MS **Client Sample ID: 234H-North** Matrix: Solid Prep Type: Total/NA Analysis Batch: 7790 Prep Batch: 7797 Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits 997 Gasoline Range Organics <49.8 U 1009 mg/Kg 101 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.8 U 997 1009 mg/Kg 98 70 - 130 C10-C28)

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Job ID: 890-1239-1

SDG: Eddy County

# **QC Sample Results**

Project/Site: Nailed It 234H

Lab Sample ID: 890-1239-1 MS

Matrix: Solid

Surrogate

o-Terphenyl

1-Chlorooctane

Analysis Batch: 7790

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

MS MS %Recovery Qualifier

114

118

D) (GC) ((	Continue	ed)						
					Clien	t Sample II	): 234H-	North
							ype: To	
							p Batch	
Limits								
70 - 130								
70 - 130								
					Clien	t Sample II		
							ype: To	
						Pre	p Batch	7797
Spike	MSD	MSD				%Rec.		RPD
Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
999	997.1		mg/Kg		100	70 - 130	1	20
999	998.3		mg/Kg		97	70 - 130	1	20

Lab Sample ID: 890-1239-1 MSD Matrix: Solid Analysis Batch: 7790		
	Sample	Sample
Analyte	Result	Qualifier

Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD
Gasoline Range Organics	<49.8	U	999	997.1		mg/Kg		100	70 - 130	1
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.8	U	999	998.3		mg/Kg		97	70 - 130	1
C10-C28)										
	MSD	MSD								
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane			70 - 130							
o-Terphenyl	116		70 _ 130							

vietnoa: 300.0 - Anions, ion Chro	matogr	apny											
Lab Sample ID: MB 880-7767/1-A											Client S	ample ID: Meth	od Blank
Matrix: Solid												Prep Type	: Soluble
Analysis Batch: 7831													
	МВ	MB											
Analyte	Result	Qualifier		RL		MDL	Unit		D	P	repared	Analyzed	Dil Fac
Chloride	<5.00	U		5.00			mg/Kg					09/15/21 02:07	1
 Lab Sample ID: LCS 880-7767/2-A									Cli	ent	Sample	ID: Lab Contro	I Sample
Matrix: Solid												Prep Type	: Soluble
Analysis Batch: 7831													
			Spike		LCS	LCS						%Rec.	
Analyte			Added		Result	Qual	lifier	Unit		D	%Rec	Limits	
Chloride			250		260.5			mg/Kg		_	104	90 - 110	
Lab Sample ID: LCSD 880-7767/3-A Matrix: Solid Analysis Batch: 7831								CI	ient S	Sam	ple ID: I	Lab Control Sar Prep Type	

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Limits RPD Limit Unit D %Rec Chloride 250 261.1 mg/Kg 104 90 - 110 0 20

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# **QC** Association Summary

Client: CDH Consulting Project/Site: Nailed It 234H Job ID: 890-1239-1 SDG: Eddy County

# GC VOA

# Prep Batch: 7802

rep Batch: 7802					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1239-1	234H-North	Total/NA	Solid	5035	
890-1239-2	234H-East	Total/NA	Solid	5035	
890-1239-3	234H-South	Total/NA	Solid	5035	
890-1239-4	234H-West	Total/NA	Solid	5035	
890-1239-5	234H-Base	Total/NA	Solid	5035	
MB 880-7802/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-7802/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-7802/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
nalysis Batch: 7820					
•	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
Lab Sample ID	Client Sample ID 234H-North	Prep Type Total/NA	<u>Matrix</u> Solid	<u>Method</u> 8021B	Prep Batch 7802
Lab Sample ID 890-1239-1					
Lab Sample ID 890-1239-1 890-1239-2	234H-North	Total/NA	Solid	8021B	7802
Lab Sample ID 890-1239-1 890-1239-2 890-1239-3	234H-North 234H-East	Total/NA Total/NA	Solid Solid	8021B 8021B	7802
Lab Sample ID 890-1239-1 890-1239-2 890-1239-3 890-1239-4	234H-North 234H-East 234H-South	Total/NA Total/NA Total/NA	Solid Solid Solid	8021B 8021B 8021B	7802 7802 7802 7802
Lab Sample ID 890-1239-1 890-1239-2 890-1239-3 890-1239-4 890-1239-5	234H-North 234H-East 234H-South 234H-West	Total/NA Total/NA Total/NA Total/NA	Solid Solid Solid Solid	8021B 8021B 8021B 8021B 8021B	7802 7802 7802 7802 7802
Batch: 7820           Lab Sample ID           890-1239-1           890-1239-2           890-1239-3           890-1239-4           890-1239-5           MB 880-7802/5-A           LCS 880-7802/1-A	234H-North 234H-East 234H-South 234H-West 234H-Base	Total/NA Total/NA Total/NA Total/NA Total/NA	Solid Solid Solid Solid Solid	8021B 8021B 8021B 8021B 8021B 8021B	7802 7802 7802 7802 7802 7802

# GC Semi VOA

## Analysis Batch: 7790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1239-1	234H-North	Total/NA	Solid	8015B NM	7797
890-1239-2	234H-East	Total/NA	Solid	8015B NM	7797
890-1239-3	234H-South	Total/NA	Solid	8015B NM	7797
890-1239-4	234H-West	Total/NA	Solid	8015B NM	7797
890-1239-5	234H-Base	Total/NA	Solid	8015B NM	7797
MB 880-7797/1-A	Method Blank	Total/NA	Solid	8015B NM	7797
LCS 880-7797/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	7797
LCSD 880-7797/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	7797
890-1239-1 MS	234H-North	Total/NA	Solid	8015B NM	7797
890-1239-1 MSD	234H-North	Total/NA	Solid	8015B NM	7797

## Prep Batch: 7797

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-1239-1	234H-North	Total/NA	Solid	8015NM Prep	
890-1239-2	234H-East	Total/NA	Solid	8015NM Prep	
890-1239-3	234H-South	Total/NA	Solid	8015NM Prep	
890-1239-4	234H-West	Total/NA	Solid	8015NM Prep	
890-1239-5	234H-Base	Total/NA	Solid	8015NM Prep	
MB 880-7797/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-7797/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-7797/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1239-1 MS	234H-North	Total/NA	Solid	8015NM Prep	
890-1239-1 MSD	234H-North	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Carlsbad

# **QC** Association Summary

Client: CDH Consulting Project/Site: Nailed It 234H Job ID: 890-1239-1 SDG: Eddy County

# HPLC/IC

# Leach Batch: 7767

each Batch: 7767					
_ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
90-1239-1	234H-North	Soluble	Solid	DI Leach	
390-1239-2	234H-East	Soluble	Solid	DI Leach	
390-1239-3	234H-South	Soluble	Solid	DI Leach	
390-1239-4	234H-West	Soluble	Solid	DI Leach	
390-1239-5	234H-Base	Soluble	Solid	DI Leach	
VIB 880-7767/1-A	Method Blank	Soluble	Solid	DI Leach	
_CS 880-7767/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
_CSD 880-7767/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch	
890-1239-1	234H-North	Soluble	Solid	300.0	7767	
890-1239-2	234H-East	Soluble	Solid	300.0	7767	
890-1239-3	234H-South	Soluble	Solid	300.0	7767	
890-1239-4	234H-West	Soluble	Solid	300.0	7767	
890-1239-5	234H-Base	Soluble	Solid	300.0	7767	
MB 880-7767/1-A	Method Blank	Soluble	Solid	300.0	7767	
LCS 880-7767/2-A	Lab Control Sample	Soluble	Solid	300.0	7767	40
LCSD 880-7767/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	7767	13
	•					

Eurofins Xenco, Carlsbad

Released to Imaging: 12/20/2021 11:10:49 AM

9

## Job ID: 890-1239-1 SDG: Eddy County

# Lab Sample ID: 890-1239-1 Matrix: Solid

Lab Sample ID: 890-1239-2

Matrix: Solid

Date Collected: 09/09/21 12:10 Date Received: 09/09/21 15:58

**Client Sample ID: 234H-North** 

**Client: CDH Consulting** 

Project/Site: Nailed It 234H

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7802	09/13/21 10:18	KL	XEN MID
Total/NA	Analysis	8021B		1	7820	09/13/21 23:09	KL	XEN MID
Total/NA	Prep	8015NM Prep			7797	09/13/21 09:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1	7790	09/13/21 11:49	AJ	XEN MID
Soluble	Leach	DI Leach			7767	09/10/21 14:24	СН	XEN MID
Soluble	Analysis	300.0		1	7831	09/15/21 02:52	СН	XEN MID

# Client Sample ID: 234H-East Date Collected: 09/09/21 12:15

Date Received: 09/09/21 15:58

_	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7802	09/13/21 10:18	KL	XEN MID
Total/NA	Analysis	8021B		1	7820	09/13/21 23:30	KL	XEN MID
Total/NA	Prep	8015NM Prep			7797	09/13/21 09:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1	7790	09/13/21 12:52	AJ	XEN MID
Soluble	Leach	DI Leach			7767	09/10/21 14:24	СН	XEN MID
Soluble	Analysis	300.0		1	7831	09/15/21 02:58	СН	XEN MID

# **Client Sample ID: 234H-South**

Date Collected: 09/09/21 12:20 Date Received: 09/09/21 15:58

	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7802	09/13/21 10:18	KL	XEN MID
Total/NA	Analysis	8021B		1	7820	09/13/21 23:50	KL	XEN MID
Total/NA	Prep	8015NM Prep			7797	09/13/21 09:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1	7790	09/13/21 13:13	AJ	XEN MID
Soluble	Leach	DI Leach			7767	09/10/21 14:24	СН	XEN MID
Soluble	Analysis	300.0		1	7831	09/15/21 03:15	CH	XEN MID

# **Client Sample ID: 234H-West** Date Collected: 09/09/21 12:25 Date Received: 09/09/21 15:58

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7802	09/13/21 10:18	KL	XEN MID
Total/NA	Analysis	8021B		1	7820	09/14/21 00:11	KL	XEN MID
Total/NA	Prep	8015NM Prep			7797	09/13/21 09:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1	7790	09/13/21 13:34	AJ	XEN MID
Soluble	Leach	DI Leach			7767	09/10/21 14:24	СН	XEN MID
Soluble	Analysis	300.0		1	7831	09/15/21 03:20	СН	XEN MID

# Matrix: Solid

Lab Sample ID: 890-1239-4

Matrix: Solid

Lab Sample ID: 890-1239-3

# Client Sample ID: 234H-Base Date Collected: 09/09/21 12:30

Date Received: 09/09/21 15:58

	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7802	09/13/21 10:18	KL	XEN MID
Total/NA	Analysis	8021B		1	7820	09/14/21 00:31	KL	XEN MID
Total/NA	Prep	8015NM Prep			7797	09/13/21 09:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1	7790	09/13/21 13:56	AJ	XEN MID
Soluble	Leach	DI Leach			7767	09/10/21 14:24	СН	XEN MID
Soluble	Analysis	300.0		1	7831	09/15/21 03:26	СН	XEN MID

#### Laboratory References:

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

Job ID: 890-1239-1 SDG: Eddy County

# Lab Sample ID: 890-1239-5

Matrix: Solid

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Eurofins Xenco, Carlsbad

Accreditation/Certification Summary

Client: CDH Consulting Project/Site: Nailed It 234H Job ID: 890-1239-1 SDG: Eddy County

## Laboratory: Eurofins Xenco, Midland

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

thority	Pro	ogram	Identification Number	Expiration Date	
kas	NE	ELAP	T104704400-21-22	06-30-22	
The following analytes :	are included in this report, bu	it the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for which	
the agency does not off	ier certification.				
Analysis Method	Prep Method	Matrix	Analyte		
300.0		Solid	Chloride		
8015B NM	8015NM Prep	Solid	Diesel Range Organics (Over	C10-C28)	
3015B NM	8015NM Prep	Solid	Gasoline Range Organics (GR	(O)-C6-C10	
8015B NM	8015NM Prep	Solid	Oll Range Organics (Over C28	3-C36)	
8015B NM	8015NM Prep	Solid	Total TPH		
8021B	5035	Solid	Benzene		
8021B	5035	Solid	Ethylbenzene		
8021B	5035	Solid	m-Xylene & p-Xylene		
8021B	5035	Solid	o-Xylene		
8021B	5035	Solid	Toluene		
8021B	5035	Solid	Total BTEX		
8021B	5035	Solid	Xylenes, Total		

Eurofins Xenco, Carlsbad

Released to Imaging: 12/20/2021 11:10:49 AM

# **Method Summary**

**Client: CDH Consulting** Project/Site: Nailed It 234H

lethod	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
800.0	Anions, Ion Chromatography	MCAWW	XEN MID
6035	Closed System Purge and Trap	SW846	XEN MID
015NM Prep	Microextraction	SW846	XEN MID
OI 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.

#### Laboratory References:

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

Job ID: 890-1239-1 SDG: Eddy County Client: CDH Consulting Project/Site: Nailed It 234H Job ID: 890-1239-1 SDG: Eddy County

ab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
90-1239-1	234H-North	Solid	09/09/21 12:10	09/09/21 15:58	1	
90-1239-2	234H-East	Solid	09/09/21 12:15	09/09/21 15:58	1	
90-1239-3	234H-South	Solid	09/09/21 12:20	09/09/21 15:58	1	5
90-1239-4	234H-West	Solid	09/09/21 12:25	09/09/21 15:58	1	
90-1239-5	234H-Base	Solid	09/09/21 12:30	09/09/21 15:58	1	
						8
						9
						1
						1
						1

Work Order No: www.xenco.com Page 1 of 1		UST/PST PRP Brownhelds RRC Superfund	1	Level II Cevel III PST/UST TRRP Level IV	EDD ADaPT Other:	Preservative Codes	None: NO DI Water: H <sub>2</sub> O	Cool: Cool MeOH: Me HCL: HC HNO 3: HN HSC: H NOOH: Na		NaHSO 4: NABIS	Zn Acetate+NaOH: Zn	NaOH+Ascorbic Acid: SAPC	Sample Comments						K Se Ag SiO <sub>2</sub> Na Sr Tl Sn U V Zn Hg: 1631/245.1/7470 /7471	2	Received by: (Signature) Date/Time	Revised Date: 08/25/2320 Rev. 2000.2	
<b>Chain of Custody</b> 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		Program.	Į0	Reporting: L	coh consult.com Deliverables:	ANALYSIS REQUEST		(SIZ) (WS (O.ac	108	pm	4 m	()	T	XXX					Texas 11 AI Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U	Notice: Signature of this document and relimquishment 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 lable 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. A minimum charge of 585.00 will be applied to each project and a charge of 55 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	Date/Time Relinquished by: (Signature)		
C Houston, TX Houston, TX (4 Midland, TX (4 EL Paso, TX (4 Hobbs, NM (	Bill to: (if different)	Con		City, State ZIP:	431-7468 Email: chris @ caho	234 H Turn Around	Reautine Rush Code	NALA Due Date: NALA TAT starts the day received by the lab, if received by 4:30pm	ank: Ves No Wet Ice: Ves No	Thermometer ID: T-v-v-U	Temperature Reading: 4.2		Matrix Date Time Depth Grab/ # of Comp Comt	2 04/09/20 1210 1, 1	1 1 1212 1	0221	971 N		RCRA         13PPM         Texas         11         AI           TCLP / SPLP 6010         8RCR/	int of samples constitutes a valid purchase order from client company to Eur cost of samples and shall not assume any responsibility for any losses or sope be applied to each project and a charge of 55 for each sample submitted to	Received by: (Signature)		
🐝 eurofins 📴	Devicet Manager	LOT.		City. State ZIP:	(22)	Project Name: Na: 164 24 234 H	ber:	Project Location: Eddy Count Sampler's Name: Elizabeth Nu	SAMPLE RECEIPT Temp Blank:	act:	Cooler Custody Seals: Yes No N/A Sample Custody Seals: Yes No N/A		Sample Identification	234H-North	234H - East	1	1	2344 - Base	Total         200.7 / 6010         200.8 / 6020:           Circle Method(s) and Metal(s) to be analyzed	Notice: Signature of this document and relinquishme for service: Eurofins Xenco will be liable only for the co of service. A minimum charge of SBS.00 will b	Relinquished by: (Signature)	2 1 mm 2 2	

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Page 1 of 1	mments	Brownfields RRC Superfund		PST/UST TRRP Level IV	T Other:	Preservative Codes	None: NO DI Water: H <sub>2</sub> O	ol	HCL: HC HNO 3: HN HLCL: H , NAOH: NA		NaHSO 4: NABIS	Na 25 203: NaSO 3	Zn Acetate+NaOH: Zn	NaOH+Ascorbic Acid: SAPC	Sample Comments							TI Sn U V Zn /7470 /7471		Date/Time		Revised Date 08/25/2020 Rev 2020 2
Work Order No:	Work Order Comments	Program: UST/PST PRP Brow	State of Project:	Reporting: Level II 🗌 Level III 🗍 PS	Deliverables: EDD ADaPT																	Vi K Se Ag SiO <sub>2</sub> Na Sr Hg: 1631/245.1	onditions e control usiy negotiated.	Received by: (Signature)		
<b>Chain of Custody</b> 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		a a	Ste	Re	@ cdhcansult.com	ANALYSIS REQUEST		(		108 72 ·	p. Ho	™ 7)	221	))		XXX				>		A 13PPM Texas 11 AI Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K TCLP/SPLP6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U	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 asigns 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. 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.	Date/Time Relinquished by: (Signature)	z 025.9. 12/61	20
	Bill to: (if different)	Con		City, State ZIP:	Email: Chris Ochc	Turn Around	Koutine Rush Code	Due Date:	TAT starts the day received by the lab, if received by 4:30pm	No Wet Ice:	ometer ID:		Temperature Reading: 4.2	Corrected Temperature:	Date         Time         Depth         Grab/         # of           Sampled         Sampled         Comp         Comp         Comp	1 1 0121 12/00/20	1 1212 1	0221	1226	A 1230 A		BRCRA 13PPM Texas 11 AI SI ed TCLP / SPLP 6010 : BRCRA	matthutes a valid purchase order from client company to Eur nd shall not assume any responsibility for any losses or expe ch project and a charge of \$5 for each sample submitted to	Received by: (Signature)	(thr	
Control Contro	Province Manager A.hr. C. D. Wie	COH Consult		City State ZIP:	Phone: (720) 431-7468	Project Name: Na: 164 Z+ 234 H	ber:	-	er's Name:	CAMPLE RECEIPT Temp Blank	tact: Yes No	Yes No MTA	Sample Custody Seals: Yes No N/A Terr	Total Containers:	Sample Identification Matrix Sar	2344 - North 5 091		2,34H - South	234H - West	2344 - Base V		Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order fror Revice: Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibilition for the functions Xenco. A minimum charge of \$55.00 will be applied to each project and a charge of \$55.00 real of Eurofins Xenco.	Relinquished by: (Signature)	allow 14 the 1 de	5

4 5 6

Ver 06/08/2021		temparks (6	(s) °C and Ather Remarks	Cooler Temperature(s)	Cooler						∆ Yes ∆ No
	Date/Time			ed by	Received by		Company			Date/Time	Relinquished by
	Date/Time		. 00.	A PA De	Received by		Company			Date/Time	
vuriantia 1	047173,21	II -		Act PAL	Receive		Company			Date/Time	12.01. Log Cup 9.10.21
	Shipment:	Method of Shipment:			Ū	Time			Date		Empty Kit Relinquished by
		ents.	/QC Requirements	Special Instructions/Q	pecial In	0		N	erable Rank	Primary Deliverable Rank	Deliverable Requested   II III IV Other (specify)
fee may be assessed if samples are retained longer than 1 month) t Disposal By Lab Archive For	mples are retai b	<b>assessed if san</b> Disposal By Lab		Sample Disposal ( A	iample L Ret	6					Possible Hazard Identification Unconfirmed
if-custody If the labor ion status should be b	arded under chain-of nanges to accreditati	le shipment is forwa be provided Any ch	atories. This samp r instructions will b	ontract labor atory or othe	n out subco b LLC labor Ico LLC.	iance upo fins Xenco rofins Xen	iditation compli tick to the Eurof plicance to Eur	analyte & accre t be shipped ba ng to said com	iip of method samples mus Custody attesti	C places the ownerst ix being analyzed, the the signed Chain of	Nove Since ladvaloty accreditations are subject to change Luroms Xenoo LLC pleaces the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC.
katim ter ord											, Oneo laboraten anno distino en unio de terre de la como de la como de la
				×	×		Solid	>	12 30 Mountain	9/9/21	234H-Base (890-1239-5)
				× ×	×		Solid	э ——	12 25 Mountain	9/9/21	234H-West (890-1239-4)
	· · · · · · · · · · · · · · · · · · ·			××	×		Solid	>	12 20 Mountain	9/9/21	234H-South (890-1239-3)
۲ د <del>اندر</del> منطقی م				×	×		Solid	n 	12 15 Mountain	9/9/21	234H-East (890-1239-2)
				××	×		Solid	n	12 10 Mountai	9/9/21	234H-North (890-1239-1)
	V					X		Presen	X	X	
Special Instructions/Note	Total Number			300_ORGFM_21 8021B/6036FP_	Perform MS/N 8015MOD_NM/8	Field Filtered	Matrix (W=water S=solid, O=waste/oll, BT=Tissue, A=Air	Sample Type (C=comp, G=grab)	Sample Time	Sample Date	Sample Identification - Client ID (Lab ID)
of con Other	ofcon				B015NM					SSOW# <sup>.</sup>	Sile
L EDTA	tainer				_S_Pro	2-73-80-9/200				Project # 89000037	Project Name Nailed It 234H
<u>-</u> -	ŝ				ep (MO					WO#:	Email
F MeUH G Amchlor H Ascorbic Acid				de	-	<b>)</b>				PO#	Phone 432-704-5440(Tel)
D Nitric Acid E NaHSO4				****	TPH						State, Zip <sup>-</sup> TX 79701
						ligentic d			(days)	TAT Requested (days)	City Midland
Preservation Codes		Requested	Analysis Re				i		sted	Due Date Requested 9/15/2021	1211 W Florida Ave
Job # <sup>.</sup> 890-1239-1			e note):	Accreditations Required (See note): NELAP - Texas	Accreditations Requ NELAP - Texas	Accre					Eurofins Xenco
Page <sup>.</sup> Page 1 of 1		State of Origin New Mexico		E-Mail Irene vann@eurofinset.com	n@eurof	E-Mail Irene van	10 11			Phone.	Shipping/Receiving
COC No 890-402 1	No(s)	Carrier Tracking No(s)			ne	Lab PM Vann Irene	5			Sampler	Client Information (Sub Contract Lab)
🐝 eurofins					ord	Rec	Chain of Custody Record	of Cu	Chain		1089 N Canal St. Carisbad NM 88220 Phone: 575-988-3199 Fax: 575-988-3199
* #											Eurofins Xenco, Carlsbad

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# Login Sample Receipt Checklist

Client: CDH Consulting

### Login Number: 1239 List Number: 1 Creator: Olivas, Nathaniel

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	N/A	

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

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## Job Number: 890-1239-1 SDG Number: Eddy County

List Source: Eurofins Xenco, Carlsbad

# Login Sample Receipt Checklist

Client: CDH Consulting

Login Number: 1239 List Number: 2 Creator: Copeland, Tatiana

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	2.1 / 2.6
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.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	True	

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

14

Job Number: 890-1239-1 SDG Number: Eddy County

List Source: Eurofins Xenco, Midland List Creation: 09/13/21 09:26 AM



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CDH Consulting, LLC Thornton, Colorado 720.431.7468 www.CDHConsult.com

# **FIGURE 1**

**Released to Imaging: 12/20/2021 11:10:49** AM

# **Tap Rock Operations**



# 5/4/2021, 11:00:03 AM

- **Counties**
- Active
- **Sample Location**



Maxar, Microsoft, Esri, HERE, Garmin, iPC



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CDH Consulting, LLC Thornton, Colorado 720.431.7468 www.CDHConsult.com

# TABLE 1

Sample ID	Date Sampled	Depth (in. bgs)	Chlorides (mg/kg)	TPH <sup>(2)</sup>	BTEX (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)
NMOCD Table I So	oil Standard (mg/l	(g) <sup>(1)</sup>	600 mg/kg	100 mg/kg	50 mg/kg	10 mg/kg			
234H-North	09/09/2021	12	20.7	<49.8	<0.00402	<00201	<00201	<00201	<0.00402
234H-East	09/09/2021	12	18.3	<50.0	<0.00398	<0.00199	<0.00199	<0.00199	<0.00398
234H-South	09/09/2021	12	14.0	<49.9	<0.00398	<0.00199	<0.00199	<0.00199	<0.00398
234H-West	09/09/202	12	17.8	<49.9	<0.00399	<0.00200	<0.00200	0.00369	<0.00399
234H-Base	09/09/2021	12	17.8	<49.8	<0.00398	<0.00199	<0.00199	<0.00199	<0.00398

#### Notes:

1. Standards for soil are taken from 19.15.29.12(C)(4) NMAC, Table I, Depth to ground water 51 - 100 ft

2. TPH - total volatile and extractable hydrocarbons. Value calculated by adding GRO, DRO and MRO concentrations

#### BOLD = Result above closure criteria

NMOCD = New Mexico Oil Conservation Divison

(<) = Analytical result is less than the indicated laboratory reporting limit

GRO = Total volatile petroleum hydrocarbons - gasoline range organics

DRO = Total volatile petroleum hydrocarbons - diesel range organics

MRO = Total volatile petroleum hydrocarbons - motor oil/lube range organics

BTEX = Total benzene, toluene, ethlybenzene, and total xylenes

mg/kg = Milligrams per kilogram

in. = inch

ft = Feet

bgs = Below ground surface

NA = Constituent not analyzed

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

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District IV

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

COMMENTS

Operator:	OGRID:
TAP ROCK OPERATING, LLC	372043
523 Park Point Drive	Action Number:
Golden, CO 80401	62167
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### COMMENTS

Created By	Comment	Comment Date
chensley	Called and worked with consultant on discrepancies with the report.	12/20/2021

COMMENTS

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Action 62167

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

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

CONDITIONS

Operator:	OGRID:				
TAP ROCK OPERATING, LLC	372043				
523 Park Point Drive	Action Number:				
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	[C-141] Release Corrective Action (C-141)				
CONDITIONS					

Created By Condition Condition Date 12/20/2021 chensley None

CONDITIONS

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Action 62167