Executive Summary – San Juan 31-6 #24 NMOCD Incident #nAPP2404334116

On February 7, 2024, at approximately 1:30 pm MST, Hilcorp Energy Company (Hilcorp) discovered a release of estimated 36 bbls of produced water at the San Juan 31-6 #204 well site (API 30-039-24437) in San Juan County, NM (36.83696, -107.75239). Weather related equipment failure resulted in a frozen valve that split and released produced water into an unlined, bermed secondary containment area.

Upon discovery, the valve was isolated and repaired. The bermed area contained an accumulation of precipitation from recent rain events. A total of 120 bbls of rainwater and produced water was removed via vac truck and hauled offsite for disposal. The estimated produced water volume released is based on well production rates.

Samples were collected to determine the extent of impacts within the bermed area. Twelve (12) 5-point composite samples were collected on February 21, 2024 by Hilcorp personnel. Analytical results from this sampling event were all below NMOCD action criteria noted in NMAC 19.15.29 Table 1. Sample results are included at the end of this summary report. No additional remediation activities were conducted.

The incident closure request was submitted to NMOCD on May 8, 2024. The closure request was rejected on May 29, 2024, citing failure to vertically delineate the impacts near the center of the release. Three additional samples were collected in the center of the release on July 30, 2024. The results were all below NMOCD action criteria noted in NMAC 19.15.29 Table 1. An updated sample map and sample results are included in this revised report.

Scaled Site Map

Lat: 36.83696
Long: -107.45239

San Juan 31-6 Unit 204 Wellsite
API: 30-039-24437

Depth to groundwater determination.

Cathodic protection well data sheet for SJ 31-6 #18 which is approximately 600’ to the north of the SJ 31-6 #204. Estimated depth to groundwater is approximately 190’. There is approximately 25’ difference in elevation between the two wells.

REVISION 1
1/93

DATA SHEET FOR DEEP BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO
(SUBMIT 2 COPIES TO OCD AZTEC OFFICE)

PPCO DESIGNATION: FM-350
OPERATOR: PHILLIPS PETROLEUM COMPANY
FARMINGTON, N.M. 87401
(505) 599-3400
LOCATION: K 3 30 6
LEASE NUMBER: 650114
NAME OF WELL/S OR PIPELINE SERVED: (1) SJ 31-6 UNIT #18 MV 30-039-82389
(2) SJ 31-6 #204 30-039-24437

ELEVATION:NA
TOTAL DEPTH: 443 FT.
COMPLETION DATE: 04/25/63
LAND: FEDERAL

CASING INFO.; SIZE: NA IN. TYPE: NA
DEPTH: NA FT. CEMENT USED: NA

IF CEMENT OR BENTONITE PLUGS HAVE BEEN PLACED, SHOW DEPTHS & AMOUNTS:
PLUG DEPTH: NONE
PLUG AMOUNT: NONE

WATER INFORMATION:
WATER DEPTH (FT): (1) 190 (2) -0-
WATER INFORMATION: NA

DEPTHS GAS ENCOUNTERED (FT): NA

TYPE AND AMOUNT OF COKE BREEZE USED:
COKE TYPE: METALLURGICAL COKE BREEZE
COKE AMOUNT: 8502 LBS.

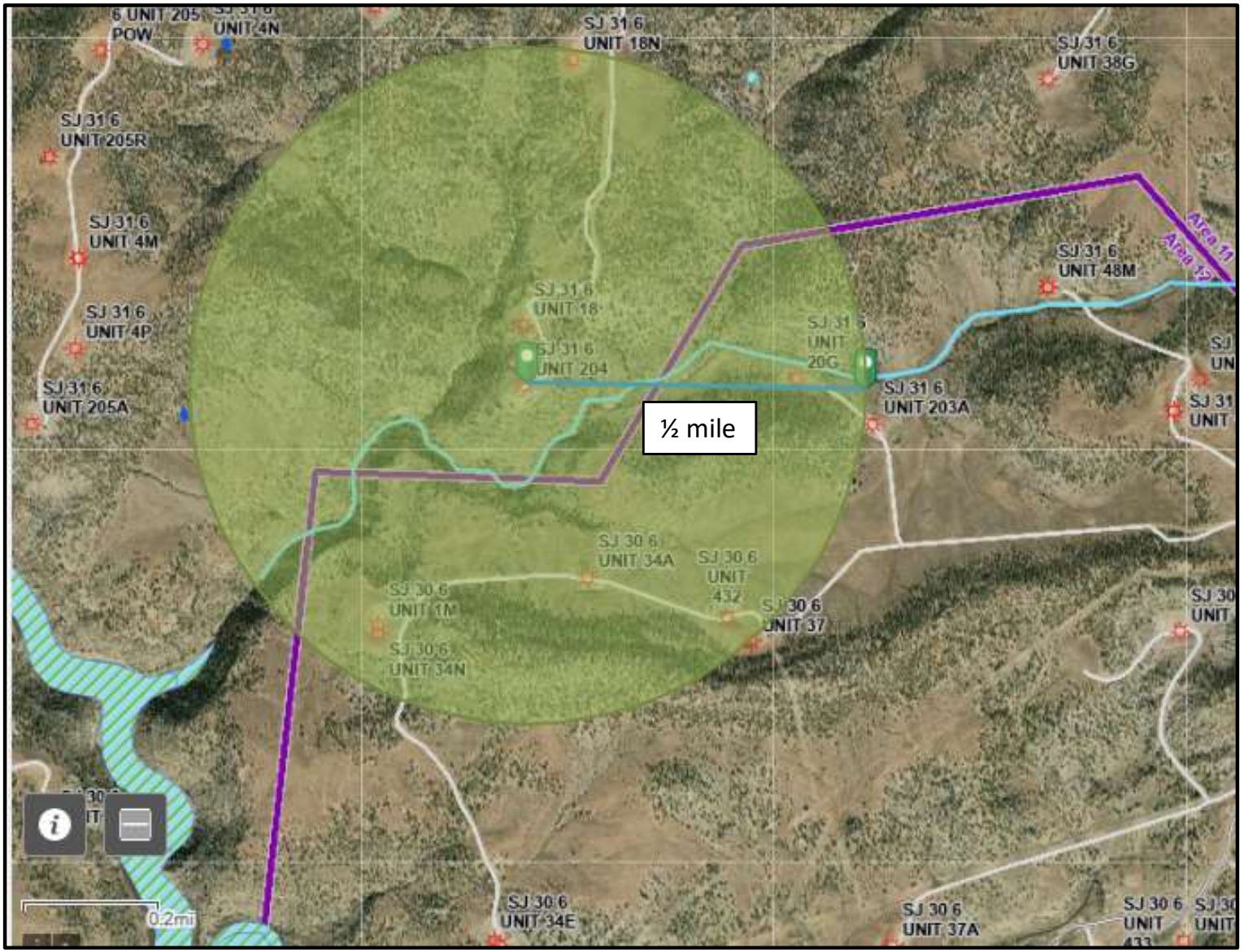
DEPTHS ANODES PLACED (FT):
75,95,110,120,130,160,205,245,350,375

DEPTH VENT PIPE PLACED (FT): 443

VENT PIPE PERFORATIONS (FT): TOP 65 BOTTOM 443

REMARKS: REVISION 1---1/93

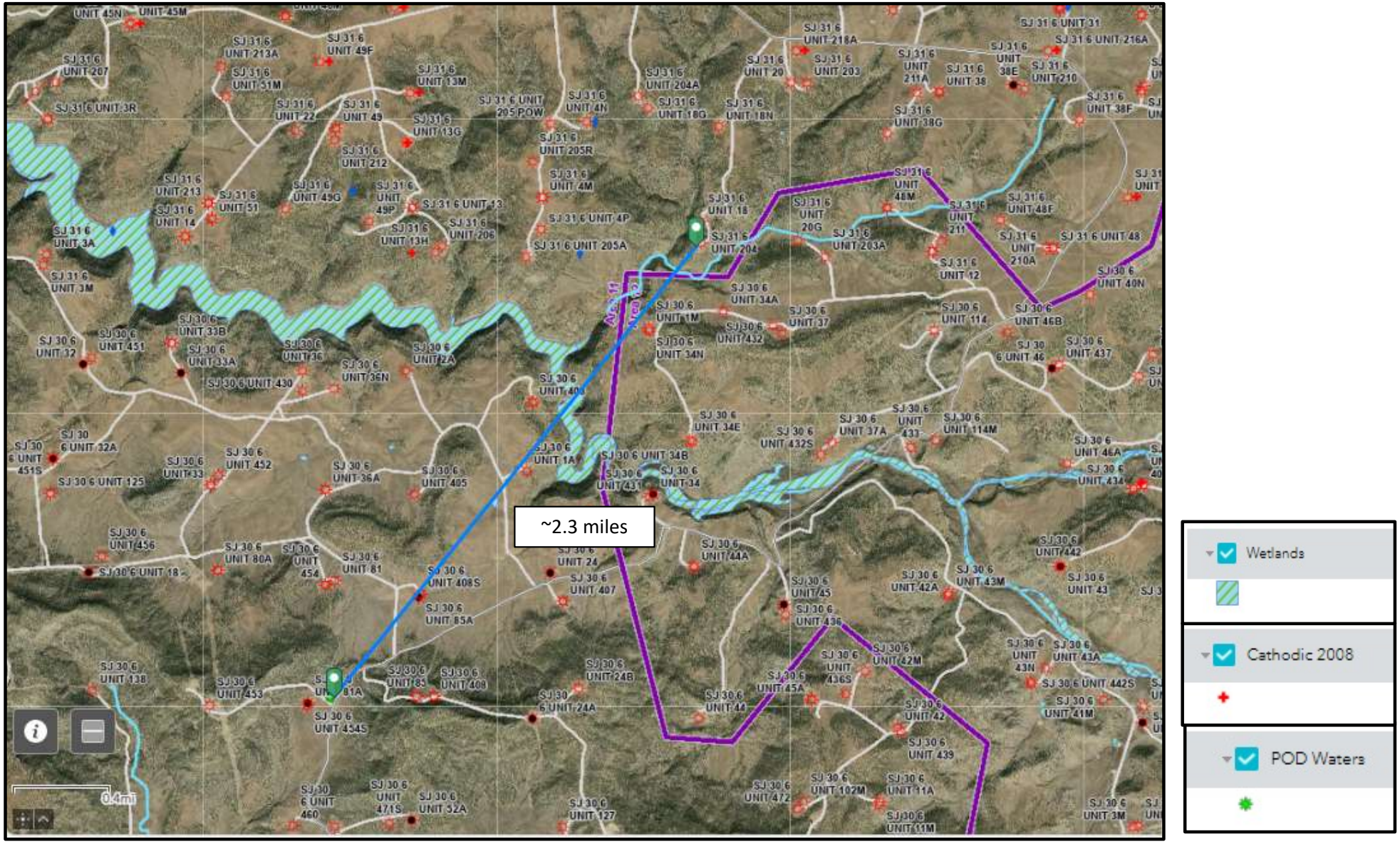
Determination of water sources and significant watercourses within ½ mile of the lateral extent of the release



Note 1: Release point is not within 300 ft of a continuously flowing watercourse or other significant water course.

Note 2: The lateral extents of the release point are not within 300 feet of a mapped wetland.

Distance to mapped water wells.



Note: The lateral extents of the release point are not shown to be within 500 ft of a spring or domestic freshwater well used by less than 5 households (or stock watering) or within 1,000 ft of any freshwater water well or spring.

Topographic Map

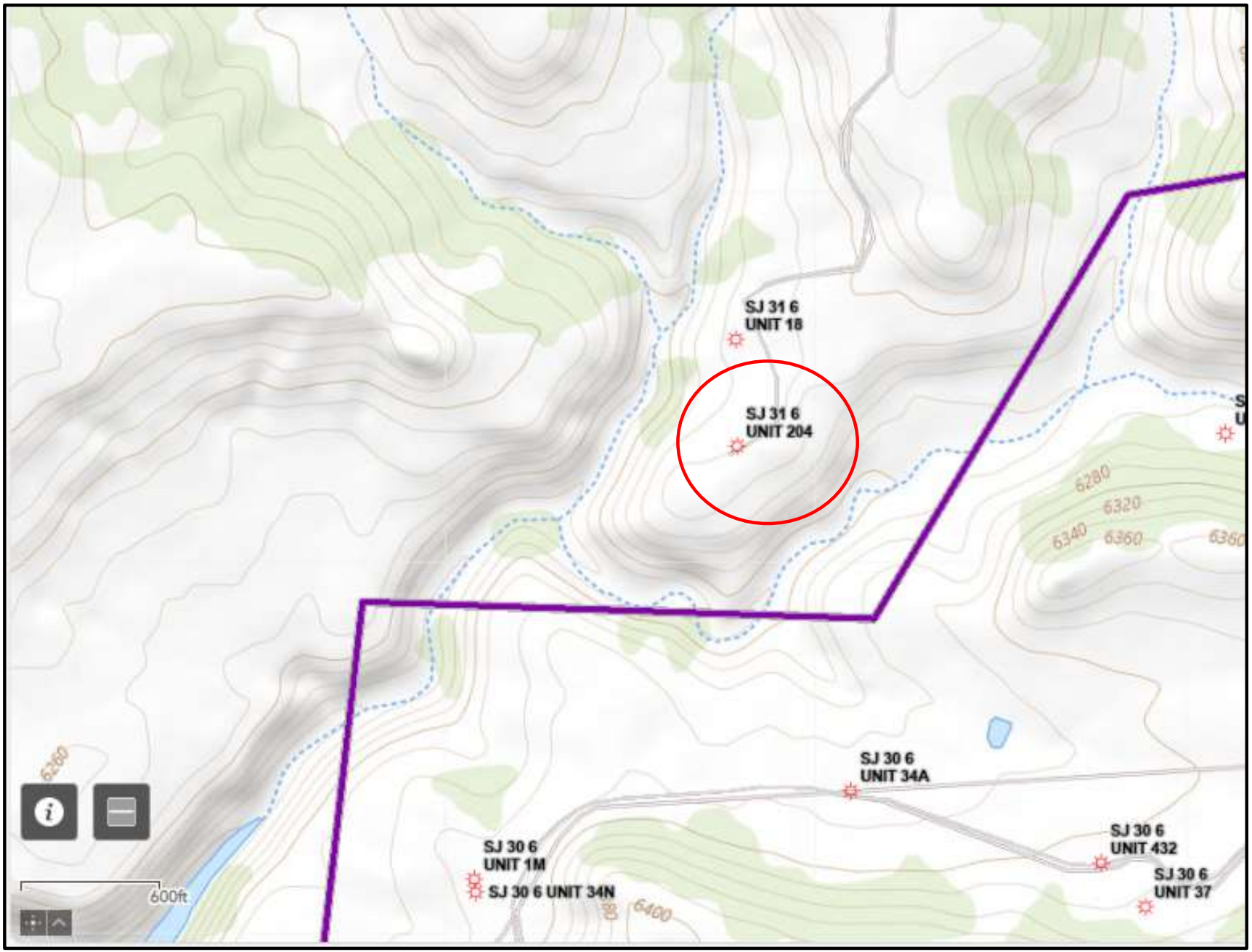


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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
San Juan 31-6 #204
Hilcorp Energy Company
San Jaun County, New Mexico

Sample Identification	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Closure Criteria for Soils Impacted by a Release			**10**	NE	NE	NE	**50**	NE	NE	NE	**1,000**	**2,500**	**20,000**
S-1	2/21/2024	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	82
S-1	2/21/2024	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	95
S-1	2/21/2024	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	97
S-2	2/21/2024	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	110
S-2	2/21/2024	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
S-2	2/21/2024	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
S-3	2/21/2024	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	160
S-3	2/21/2024	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	140
S-3	2/21/2024	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	140
S-4	2/21/2024	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	61
S-4	2/21/2024	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
S-4	2/21/2024	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
S-5	7/30/2024	0.5	< 0.024	< 0.047	< 0.047	< 0.095	< 0.095	< 4.7	< 9.8	< 49	< 49	< 49	76
S-5	7/30/2024	2.0	< 0.025	< 0.049	< 0.049	< 0.099	< 0.099	< 4.9	< 9.6	< 48	< 48	< 48	< 60
S-5	7/30/2024	3.0	< 0.024	< 0.049	< 0.049	< 0.096	< 0.096	< 4.9	< 9.3	< 46	< 46	< 46	< 60

Notes:

bgs: Below ground surface
ND: Not detected
mg/kg: Milligrams per kilogram
NE: Not Established
NMOCD: New Mexico Oil Conservation Division
PID: Photoionization detector
ppm: Parts per million
BTEX: Benzene, Toluene, Ethylbenzene, Xylenes
GRO: Gasoline Range Organics
DRO: Diesel Range Organics
MRO: Motor Oil/Lube Oil Range Organics
TPH: Total Petroleum Hydrocarbon
< : Indicates result less than the stated laboratory reporting limit (RL)

Sample Diagram – Soil samples were collected on 2/21/2024.

Site Photos

Site Photos

Kate Kaufman

From: OCDOnline@state.nm.us
Sent: Wednesday, May 29, 2024 11:01 AM
To: Kate Kaufman
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 341380

To whom it may concern (c/o Kate Kaufman for HILCORP ENERGY COMPANY),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2404334116,
for the following reasons:

- **Vertical extent of impacts not submitted near center of release. Hilcorp has 90-days (August 27, 2024) to submit to OCD its appropriate or final closure report.**

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 341380.
Please review and make the required correction(s) prior to resubmitting.
If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you,
Nelson Velez
Environmental Specialist - Advanced
505-469-6146
Nelson.Velez@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

Analytical Data.

See attached Lab Reports.

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kate Kaufman
Hilcorp Energy
PO BOX 4700
Farmington, New Mexico 87499

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JOB DESCRIPTION

SJ 31-6 204

JOB NUMBER

885-8899-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization

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8/5/2024 12:51:37 PM

Authorized for release by
Michelle Garcia, Project Manager
michelle.garcia@et.eurofinsus.com
(505)345-3975

Client: Hilcorp Energy
Project/Site: SJ 31-6 204

Laboratory Job ID: 885-8899-1

Table of Contents

Definitions/Glossary

Client: Hilcorp Energy
Project/Site: SJ 31-6 204

Job ID: 885-8899-1

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
%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

Case Narrative

Client: Hilcorp Energy
Project: SJ 31-6 204

Job ID: 885-8899-1

Job ID: 885-8899-1 Eurofins Albuquerque

Job Narrative
885-8899-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 7/31/2024 6:30 AM. 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 0.4°C.

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

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

Diesel Range Organics
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.

Client Sample Results

Client: Hilcorp Energy
Project/Site: SJ 31-6 204

Job ID: 885-8899-1

Client Sample ID: S-5 6"

Date Collected: 07/30/24 11:50
Date Received: 07/31/24 06:30

Lab Sample ID: 885-8899-1

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7		mg/Kg		07/31/24 16:23	08/01/24 18:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*35 - 166*	*07/31/24 16:23*	*08/01/24 18:39*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		07/31/24 16:23	08/01/24 18:39	1
Ethylbenzene	ND		0.047		mg/Kg		07/31/24 16:23	08/01/24 18:39	1
Toluene	ND		0.047		mg/Kg		07/31/24 16:23	08/01/24 18:39	1
Xylenes, Total	ND		0.095		mg/Kg		07/31/24 16:23	08/01/24 18:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*48 - 145*	*07/31/24 16:23*	*08/01/24 18:39*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8		mg/Kg		08/01/24 12:03	08/01/24 13:10	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		08/01/24 12:03	08/01/24 13:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*101*		*62 - 134*	*08/01/24 12:03*	*08/01/24 13:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**76**		60		mg/Kg		08/01/24 12:38	08/01/24 15:22	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: SJ 31-6 204

Job ID: 885-8899-1

Client Sample ID: S-5 2'

Date Collected: 07/30/24 12:00
Date Received: 07/31/24 06:30

Lab Sample ID: 885-8899-2

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9		mg/Kg		07/31/24 16:23	08/01/24 19:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*35 - 166*	*07/31/24 16:23*	*08/01/24 19:44*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		07/31/24 16:23	08/01/24 19:44	1
Ethylbenzene	ND		0.049		mg/Kg		07/31/24 16:23	08/01/24 19:44	1
Toluene	ND		0.049		mg/Kg		07/31/24 16:23	08/01/24 19:44	1
Xylenes, Total	ND		0.099		mg/Kg		07/31/24 16:23	08/01/24 19:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*48 - 145*	*07/31/24 16:23*	*08/01/24 19:44*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6		mg/Kg		08/01/24 12:03	08/01/24 13:23	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		08/01/24 12:03	08/01/24 13:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*99*		*62 - 134*	*08/01/24 12:03*	*08/01/24 13:23*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		08/01/24 12:38	08/01/24 15:37	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: SJ 31-6 204

Job ID: 885-8899-1

Client Sample ID: S-5 3'

Date Collected: 07/30/24 12:40
Date Received: 07/31/24 06:30

Lab Sample ID: 885-8899-3

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9		mg/Kg		07/31/24 16:23	08/01/24 20:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*35 - 166*	*07/31/24 16:23*	*08/01/24 20:06*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		07/31/24 16:23	08/01/24 20:06	1
Ethylbenzene	ND		0.049		mg/Kg		07/31/24 16:23	08/01/24 20:06	1
Toluene	ND		0.049		mg/Kg		07/31/24 16:23	08/01/24 20:06	1
Xylenes, Total	ND		0.098		mg/Kg		07/31/24 16:23	08/01/24 20:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*48 - 145*	*07/31/24 16:23*	*08/01/24 20:06*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3		mg/Kg		08/01/24 12:03	08/01/24 13:36	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		08/01/24 12:03	08/01/24 13:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*100*		*62 - 134*	*08/01/24 12:03*	*08/01/24 13:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		08/01/24 12:38	08/01/24 15:52	20

QC Sample Results

Client: Hilcorp Energy
Project/Site: SJ 31-6 204

Job ID: 885-8899-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-9532/1-A
Matrix: Solid
Analysis Batch: 9613

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 9532

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		mg/Kg		07/31/24 16:23	08/01/24 13:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*35 - 166*	*07/31/24 16:23*	*08/01/24 13:30*	*1*

Lab Sample ID: LCS 885-9532/2-A
Matrix: Solid
Analysis Batch: 9613

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 9532

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]			25.0	24.5		mg/Kg		98	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*209*		*35 - 166*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: LCS 885-9532/3-A
Matrix: Solid
Analysis Batch: 9614

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 9532

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	0.904		mg/Kg		90	70 - 130		
Ethylbenzene			1.00	0.889		mg/Kg		89	70 - 130		
m&p-Xylene			2.00	1.76		mg/Kg		88	70 - 130		
o-Xylene			1.00	0.870		mg/Kg		87	70 - 130		
Toluene			1.00	0.893		mg/Kg		89	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*89*		*48 - 145*

Lab Sample ID: 885-8899-1 MS
Matrix: Solid
Analysis Batch: 9614

Client Sample ID: S-5 6"
Prep Type: Total/NA
Prep Batch: 9532

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	ND		0.948	0.939		mg/Kg		99	70 - 130		
Ethylbenzene	ND		0.948	0.948		mg/Kg		100	70 - 130		
m&p-Xylene	ND		1.90	1.88		mg/Kg		99	70 - 130		
o-Xylene	ND		0.948	0.927		mg/Kg		98	70 - 130		
Toluene	ND		0.948	0.944		mg/Kg		100	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*86*		*48 - 145*

QC Sample Results

Client: Hilcorp Energy
Project/Site: SJ 31-6 204

Job ID: 885-8899-1

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

Lab Sample ID: 885-8899-1 MSD
Matrix: Solid
Analysis Batch: 9614

Client Sample ID: S-5 6"
Prep Type: Total/NA
Prep Batch: 9532

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		0.944	0.850		mg/Kg		90	70 - 130	10	20
Ethylbenzene	ND		0.944	0.854		mg/Kg		90	70 - 130	10	20
m&p-Xylene	ND		1.89	1.69		mg/Kg		90	70 - 130	11	20
o-Xylene	ND		0.944	0.842		mg/Kg		89	70 - 130	10	20
Toluene	ND		0.944	0.858		mg/Kg		91	70 - 130	10	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*86*		*48 - 145*

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-9580/1-A
Matrix: Solid
Analysis Batch: 9574

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 9580

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		08/01/24 12:03	08/01/24 12:30	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		08/01/24 12:03	08/01/24 12:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*96*		*62 - 134*	*08/01/24 12:03*	*08/01/24 12:30*	*1*

Lab Sample ID: LCS 885-9580/2-A
Matrix: Solid
Analysis Batch: 9574

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 9580

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	40.4		mg/Kg		81	60 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*100*		*62 - 134*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-9587/1-A
Matrix: Solid
Analysis Batch: 9616

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 9587

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.5		mg/Kg		08/01/24 12:38	08/01/24 14:24	1

Lab Sample ID: LCS 885-9587/2-A
Matrix: Solid
Analysis Batch: 9616

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 9587

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			15.0	14.3		mg/Kg		95	90 - 110		

QC Association Summary

Client: Hilcorp Energy
Project/Site: SJ 31-6 204

Job ID: 885-8899-1

GC VOA

Prep Batch: 9532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8899-1	S-5 6"	Total/NA	Solid	5030C	
885-8899-2	S-5 2'	Total/NA	Solid	5030C	
885-8899-3	S-5 3'	Total/NA	Solid	5030C	
MB 885-9532/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-9532/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-9532/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-8899-1 MS	S-5 6"	Total/NA	Solid	5030C	
885-8899-1 MSD	S-5 6"	Total/NA	Solid	5030C	

Analysis Batch: 9613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8899-1	S-5 6"	Total/NA	Solid	8015M/D	9532
885-8899-2	S-5 2'	Total/NA	Solid	8015M/D	9532
885-8899-3	S-5 3'	Total/NA	Solid	8015M/D	9532
MB 885-9532/1-A	Method Blank	Total/NA	Solid	8015M/D	9532
LCS 885-9532/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	9532

Analysis Batch: 9614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8899-1	S-5 6"	Total/NA	Solid	8021B	9532
885-8899-2	S-5 2'	Total/NA	Solid	8021B	9532
885-8899-3	S-5 3'	Total/NA	Solid	8021B	9532
LCS 885-9532/3-A	Lab Control Sample	Total/NA	Solid	8021B	9532
885-8899-1 MS	S-5 6"	Total/NA	Solid	8021B	9532
885-8899-1 MSD	S-5 6"	Total/NA	Solid	8021B	9532

GC Semi VOA

Analysis Batch: 9574

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8899-1	S-5 6"	Total/NA	Solid	8015M/D	9580
885-8899-2	S-5 2'	Total/NA	Solid	8015M/D	9580
885-8899-3	S-5 3'	Total/NA	Solid	8015M/D	9580
MB 885-9580/1-A	Method Blank	Total/NA	Solid	8015M/D	9580
LCS 885-9580/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	9580

Prep Batch: 9580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8899-1	S-5 6"	Total/NA	Solid	SHAKE	
885-8899-2	S-5 2'	Total/NA	Solid	SHAKE	
885-8899-3	S-5 3'	Total/NA	Solid	SHAKE	
MB 885-9580/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-9580/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

HPLC/IC

Prep Batch: 9587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8899-1	S-5 6"	Total/NA	Solid	300_Prep	
885-8899-2	S-5 2'	Total/NA	Solid	300_Prep	
885-8899-3	S-5 3'	Total/NA	Solid	300_Prep	
MB 885-9587/1-A	Method Blank	Total/NA	Solid	300_Prep	

QC Association Summary

Client: Hilcorp Energy
Project/Site: SJ 31-6 204

Job ID: 885-8899-1

HPLC/IC (Continued)

Prep Batch: 9587 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 885-9587/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 9616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8899-1	S-5 6"	Total/NA	Solid	300.0	9587
885-8899-2	S-5 2'	Total/NA	Solid	300.0	9587
885-8899-3	S-5 3'	Total/NA	Solid	300.0	9587
MB 885-9587/1-A	Method Blank	Total/NA	Solid	300.0	9587
LCS 885-9587/2-A	Lab Control Sample	Total/NA	Solid	300.0	9587

Lab Chronicle

Client: Hilcorp Energy
Project/Site: SJ 31-6 204

Job ID: 885-8899-1

Client Sample ID: S-5 6"

Lab Sample ID: 885-8899-1
Matrix: Solid
Date Collected: 07/30/24 11:50
Date Received: 07/31/24 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			9532	JP	EET ALB	07/31/24 16:23
Total/NA	Analysis	8015M/D		1	9613	AT	EET ALB	08/01/24 18:39
Total/NA	Prep	5030C			9532	JP	EET ALB	07/31/24 16:23
Total/NA	Analysis	8021B		1	9614	AT	EET ALB	08/01/24 18:39
Total/NA	Prep	SHAKE			9580	KR	EET ALB	08/01/24 12:03
Total/NA	Analysis	8015M/D		1	9574	KR	EET ALB	08/01/24 13:10
Total/NA	Prep	300_Prep			9587	KB	EET ALB	08/01/24 12:38
Total/NA	Analysis	300.0		20	9616	EH	EET ALB	08/01/24 15:22

Client Sample ID: S-5 2'

Lab Sample ID: 885-8899-2
Matrix: Solid
Date Collected: 07/30/24 12:00
Date Received: 07/31/24 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			9532	JP	EET ALB	07/31/24 16:23
Total/NA	Analysis	8015M/D		1	9613	AT	EET ALB	08/01/24 19:44
Total/NA	Prep	5030C			9532	JP	EET ALB	07/31/24 16:23
Total/NA	Analysis	8021B		1	9614	AT	EET ALB	08/01/24 19:44
Total/NA	Prep	SHAKE			9580	KR	EET ALB	08/01/24 12:03
Total/NA	Analysis	8015M/D		1	9574	KR	EET ALB	08/01/24 13:23
Total/NA	Prep	300_Prep			9587	KB	EET ALB	08/01/24 12:38
Total/NA	Analysis	300.0		20	9616	EH	EET ALB	08/01/24 15:37

Client Sample ID: S-5 3'

Lab Sample ID: 885-8899-3
Matrix: Solid
Date Collected: 07/30/24 12:40
Date Received: 07/31/24 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			9532	JP	EET ALB	07/31/24 16:23
Total/NA	Analysis	8015M/D		1	9613	AT	EET ALB	08/01/24 20:06
Total/NA	Prep	5030C			9532	JP	EET ALB	07/31/24 16:23
Total/NA	Analysis	8021B		1	9614	AT	EET ALB	08/01/24 20:06
Total/NA	Prep	SHAKE			9580	KR	EET ALB	08/01/24 12:03
Total/NA	Analysis	8015M/D		1	9574	KR	EET ALB	08/01/24 13:36
Total/NA	Prep	300_Prep			9587	KB	EET ALB	08/01/24 12:38
Total/NA	Analysis	300.0		20	9616	EH	EET ALB	08/01/24 15:52

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Hilcorp Energy
Project/Site: SJ 31-6 204

Job ID: 885-8899-1

Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-26-25

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
300.0	300_Prep	Solid	Chloride
8015M/D	5030C	Solid	Gasoline Range Organics [C6 - C10]
8015M/D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015M/D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]
8021B	5030C	Solid	Benzene
8021B	5030C	Solid	Ethylbenzene
8021B	5030C	Solid	Toluene
8021B	5030C	Solid	Xylenes, Total

Oregon	NELAP	NM100001	02-26-25

Chain-of-Custody Record

Client: Hilcorp

Kate Kaufman

Mailing Address:

Phone #:

email or Fax#: KKaufman@hilcorp.com

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time:
☐ Standard ☒ Rush 3 day 8-5

Project Name: SJ 31-6 204

Project #:

Project Manager: Sydney Mahany - Ensolum

Sampler: E. Carroll
On Ice: ☒ Yes ☐ No
# of Coolers: 1
Cooler Temp(Including CF): 0.3 +0.1 = 0.4 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

885-8899 COC

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chloride
7/30	1150	Soil	S-5 6"	14 oz	Cool	1	X	X									X
7/30	1200	Soil	S-5 2'	14 oz	Cool	2	X	X									X
7/30	1240	Soil	S-5 3'	14 oz	Cool	3	X	X									X

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
7/30	1429	Eric Carroll			7/30/24	1429
7/30/24	1724			courier	7/31/24	6:30

Remarks: cc: ecarroll@ensolum.com

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Login Sample Receipt Checklist

Client: Hilcorp Energy Job Number: 885-8899-1

Login Number: 8899 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Casarrubias, Tracy

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing

Eurofins Environment Testing South Central, LLC
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

March 11, 2024

Kate Kaufman
HILCORP ENERGY
PO Box 4700
Farmington, NM 87499
TEL: (505) 564-0733
FAX

RE: San Juan 31 6 Unit 204 OrderNo.: 2402C30

Dear Kate Kaufman:

Eurofins Environment Testing South Central, LLC received 12 sample(s) on 2/24/2024 for the analyses presented in the following report.

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

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY
Client Sample ID: S-1 0-6'
Project: San Juan 31 6 Unit 204
Collection Date: 2/21/2024 10:30:00 AM
Lab ID: 2402C30-001 **Matrix:** SOIL
Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JKU**
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	2/28/2024 6:05:56 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/28/2024 6:05:56 PM
Surr: DNOP	94.4	61.2-134		%Rec	1	2/28/2024 6:05:56 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **imr**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/27/2024 6:47:00 PM
Surr: BFB	103	15-244		%Rec	1	2/27/2024 6:47:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **imr**
Benzene	ND	0.024		mg/Kg	1	2/27/2024 6:47:00 PM
Toluene	ND	0.047		mg/Kg	1	2/27/2024 6:47:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	2/27/2024 6:47:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	2/27/2024 6:47:00 PM
Surr: 4-Bromofluorobenzene	95.9	39.1-146		%Rec	1	2/27/2024 6:47:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **KCB**
Chloride	82	60		mg/Kg	20	2/28/2024 9:12:12 PM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix
E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
P	Sample pH Not In Range
PQL	Practical Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY
Client Sample ID: S-1 2'
Project: San Juan 31 6 Unit 204
Collection Date: 2/21/2024 10:45:00 AM
Lab ID: 2402C30-002 **Matrix:** SOIL
Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JKU**
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	2/28/2024 6:17:57 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	2/28/2024 6:17:57 PM
Surr: DNOP	91.4	61.2-134		%Rec	1	2/28/2024 6:17:57 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **imr**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/27/2024 7:53:00 PM
Surr: BFB	105	15-244		%Rec	1	2/27/2024 7:53:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **imr**
Benzene	ND	0.024		mg/Kg	1	2/27/2024 7:53:00 PM
Toluene	ND	0.048		mg/Kg	1	2/27/2024 7:53:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	2/27/2024 7:53:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	2/27/2024 7:53:00 PM
Surr: 4-Bromofluorobenzene	98.2	39.1-146		%Rec	1	2/27/2024 7:53:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **KCB**
Chloride	95	60		mg/Kg	20	2/28/2024 9:49:15 PM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix
E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
P	Sample pH Not In Range
PQL	Practical Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY
Client Sample ID: S-1 4'
Project: San Juan 31 6 Unit 204
Collection Date: 2/21/2024 11:00:00 AM
Lab ID: 2402C30-003 **Matrix:** SOIL
Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JKU**
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	2/28/2024 6:30:03 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/28/2024 6:30:03 PM
Surr: DNOP	96.1	61.2-134		%Rec	1	2/28/2024 6:30:03 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **imr**
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	2/27/2024 8:59:00 PM
Surr: BFB	104	15-244		%Rec	1	2/27/2024 8:59:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **imr**
Benzene	ND	0.023		mg/Kg	1	2/27/2024 8:59:00 PM
Toluene	ND	0.046		mg/Kg	1	2/27/2024 8:59:00 PM
Ethylbenzene	ND	0.046		mg/Kg	1	2/27/2024 8:59:00 PM
Xylenes, Total	ND	0.092		mg/Kg	1	2/27/2024 8:59:00 PM
Surr: 4-Bromofluorobenzene	97.2	39.1-146		%Rec	1	2/27/2024 8:59:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **KCB**
Chloride	97	60		mg/Kg	20	2/28/2024 10:01:36 PM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix
E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
P	Sample pH Not In Range
PQL	Practical Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY
Client Sample ID: S-2 0-6'
Project: San Juan 31 6 Unit 204
Collection Date: 2/21/2024 11:30:00 AM
Lab ID: 2402C30-004 **Matrix:** SOIL
Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JKU**
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	2/28/2024 6:42:09 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/28/2024 6:42:09 PM
Surr: DNOP	91.5	61.2-134		%Rec	1	2/28/2024 6:42:09 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **imr**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/27/2024 9:21:00 PM
Surr: BFB	105	15-244		%Rec	1	2/27/2024 9:21:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **imr**
Benzene	ND	0.024		mg/Kg	1	2/27/2024 9:21:00 PM
Toluene	ND	0.049		mg/Kg	1	2/27/2024 9:21:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/27/2024 9:21:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	2/27/2024 9:21:00 PM
Surr: 4-Bromofluorobenzene	97.8	39.1-146		%Rec	1	2/27/2024 9:21:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **KCB**
Chloride	110	61		mg/Kg	20	2/28/2024 10:13:57 PM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix
E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
P	Sample pH Not In Range
PQL	Practical Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY
Client Sample ID: S-2 2'
Project: San Juan 31 6 Unit 204
Collection Date: 2/21/2024 11:45:00 AM
Lab ID: 2402C30-005 **Matrix:** SOIL
Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JKU**
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	2/28/2024 7:06:12 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	2/28/2024 7:06:12 PM
Surr: DNOP	97.9	61.2-134		%Rec	1	2/28/2024 7:06:12 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **imr**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/27/2024 9:43:00 PM
Surr: BFB	109	15-244		%Rec	1	2/27/2024 9:43:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **imr**
Benzene	ND	0.024		mg/Kg	1	2/27/2024 9:43:00 PM
Toluene	ND	0.048		mg/Kg	1	2/27/2024 9:43:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	2/27/2024 9:43:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	2/27/2024 9:43:00 PM
Surr: 4-Bromofluorobenzene	100	39.1-146		%Rec	1	2/27/2024 9:43:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **KCB**
Chloride	ND	59		mg/Kg	20	2/28/2024 10:26:17 PM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix
E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
P	Sample pH Not In Range
PQL	Practical Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY
Client Sample ID: S-2 4'
Project: San Juan 31 6 Unit 204
Collection Date: 2/21/2024 12:00:00 PM
Lab ID: 2402C30-006 **Matrix:** SOIL
Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JKU**
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	2/28/2024 7:18:16 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/28/2024 7:18:16 PM
Surr: DNOP	93.3	61.2-134		%Rec	1	2/28/2024 7:18:16 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **imr**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/27/2024 10:05:00 PM
Surr: BFB	104	15-244		%Rec	1	2/27/2024 10:05:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **imr**
Benzene	ND	0.024		mg/Kg	1	2/27/2024 10:05:00 PM
Toluene	ND	0.048		mg/Kg	1	2/27/2024 10:05:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	2/27/2024 10:05:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	2/27/2024 10:05:00 PM
Surr: 4-Bromofluorobenzene	99.8	39.1-146		%Rec	1	2/27/2024 10:05:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **KCB**
Chloride	ND	60		mg/Kg	20	2/28/2024 10:38:38 PM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY
Client Sample ID: S-3 0-6'
Project: San Juan 31 6 Unit 204
Collection Date: 2/21/2024 12:30:00 PM
Lab ID: 2402C30-007 **Matrix:** SOIL
Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JKU**
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	2/28/2024 7:30:14 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/28/2024 7:30:14 PM
Surr: DNOP	88.8	61.2-134		%Rec	1	2/28/2024 7:30:14 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **imr**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/27/2024 10:27:00 PM
Surr: BFB	101	15-244		%Rec	1	2/27/2024 10:27:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **imr**
Benzene	ND	0.025		mg/Kg	1	2/27/2024 10:27:00 PM
Toluene	ND	0.050		mg/Kg	1	2/27/2024 10:27:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	2/27/2024 10:27:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	2/27/2024 10:27:00 PM
Surr: 4-Bromofluorobenzene	95.0	39.1-146		%Rec	1	2/27/2024 10:27:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **KCB**
Chloride	160	59		mg/Kg	20	2/28/2024 10:50:58 PM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix
E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
P	Sample pH Not In Range
PQL	Practical Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY
Client Sample ID: S-3 2'
Project: San Juan 31 6 Unit 204
Collection Date: 2/21/2024 12:45:00 PM
Lab ID: 2402C30-008 **Matrix:** SOIL
Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JKU**
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	2/28/2024 7:42:18 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	2/28/2024 7:42:18 PM
Surr: DNOP	85.4	61.2-134		%Rec	1	2/28/2024 7:42:18 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **imr**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/27/2024 10:49:00 PM
Surr: BFB	101	15-244		%Rec	1	2/27/2024 10:49:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **imr**
Benzene	ND	0.023		mg/Kg	1	2/27/2024 10:49:00 PM
Toluene	ND	0.047		mg/Kg	1	2/27/2024 10:49:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	2/27/2024 10:49:00 PM
Xylenes, Total	ND	0.094		mg/Kg	1	2/27/2024 10:49:00 PM
Surr: 4-Bromofluorobenzene	97.4	39.1-146		%Rec	1	2/27/2024 10:49:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **KCB**
Chloride	140	60		mg/Kg	20	2/28/2024 11:03:20 PM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix
E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
P	Sample pH Not In Range
PQL	Practical Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY
Client Sample ID: S-3 4'
Project: San Juan 31 6 Unit 204
Collection Date: 2/21/2024 1:00:00 PM
Lab ID: 2402C30-009 **Matrix:** SOIL
Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JKU**
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	2/28/2024 7:54:19 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	2/28/2024 7:54:19 PM
Surr: DNOP	90.2	61.2-134		%Rec	1	2/28/2024 7:54:19 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **imr**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/27/2024 11:11:00 PM
Surr: BFB	104	15-244		%Rec	1	2/27/2024 11:11:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **imr**
Benzene	ND	0.024		mg/Kg	1	2/27/2024 11:11:00 PM
Toluene	ND	0.048		mg/Kg	1	2/27/2024 11:11:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	2/27/2024 11:11:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	2/27/2024 11:11:00 PM
Surr: 4-Bromofluorobenzene	95.9	39.1-146		%Rec	1	2/27/2024 11:11:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **KCB**
Chloride	140	60		mg/Kg	20	2/28/2024 11:15:41 PM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix
E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
P	Sample pH Not In Range
PQL	Practical Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY
Client Sample ID: S-4 0-6'
Project: San Juan 31 6 Unit 204
Collection Date: 2/21/2024 1:15:00 PM
Lab ID: 2402C30-010 **Matrix:** SOIL
Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JKU**
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	2/28/2024 8:06:21 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	2/28/2024 8:06:21 PM
Surr: DNOP	91.4	61.2-134		%Rec	1	2/28/2024 8:06:21 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **imr**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/27/2024 11:32:00 PM
Surr: BFB	107	15-244		%Rec	1	2/27/2024 11:32:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **imr**
Benzene	ND	0.024		mg/Kg	1	2/27/2024 11:32:00 PM
Toluene	ND	0.049		mg/Kg	1	2/27/2024 11:32:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/27/2024 11:32:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	2/27/2024 11:32:00 PM
Surr: 4-Bromofluorobenzene	97.2	39.1-146		%Rec	1	2/27/2024 11:32:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **KCB**
Chloride	61	60		mg/Kg	20	2/28/2024 11:28:02 PM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY
Client Sample ID: S-4 2'
Project: San Juan 31 6 Unit 204
Collection Date: 2/21/2024 1:30:00 PM
Lab ID: 2402C30-011 **Matrix:** SOIL
Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JKU**
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	2/28/2024 8:18:17 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/28/2024 8:18:17 PM
Surr: DNOP	88.5	61.2-134		%Rec	1	2/28/2024 8:18:17 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **imr**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/28/2024 12:16:00 AM
Surr: BFB	105	15-244		%Rec	1	2/28/2024 12:16:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **imr**
Benzene	ND	0.024		mg/Kg	1	2/28/2024 12:16:00 AM
Toluene	ND	0.049		mg/Kg	1	2/28/2024 12:16:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	2/28/2024 12:16:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	2/28/2024 12:16:00 AM
Surr: 4-Bromofluorobenzene	97.2	39.1-146		%Rec	1	2/28/2024 12:16:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **KCB**
Chloride	ND	60		mg/Kg	20	2/28/2024 11:40:22 PM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY
Client Sample ID: S-4 4'
Project: San Juan 31 6 Unit 204
Collection Date: 2/21/2024 1:45:00 PM
Lab ID: 2402C30-012 **Matrix:** SOIL
Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JKU**
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	2/28/2024 8:30:15 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/28/2024 8:30:15 PM
Surr: DNOP	84.2	61.2-134		%Rec	1	2/28/2024 8:30:15 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **imr**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/28/2024 12:38:00 AM
Surr: BFB	103	15-244		%Rec	1	2/28/2024 12:38:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **imr**
Benzene	ND	0.024		mg/Kg	1	2/28/2024 12:38:00 AM
Toluene	ND	0.048		mg/Kg	1	2/28/2024 12:38:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	2/28/2024 12:38:00 AM
Xylenes, Total	ND	0.096		mg/Kg	1	2/28/2024 12:38:00 AM
Surr: 4-Bromofluorobenzene	96.4	39.1-146		%Rec	1	2/28/2024 12:38:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **KCB**
Chloride	ND	60		mg/Kg	20	2/29/2024 12:17:25 AM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2402C30**

11-Mar-24

Client: HILCORP ENERGY

Project: San Juan 31 6 Unit 204

Sample ID: **MB-80694**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **80694**	RunNo: **103396**
Prep Date: **2/28/2024**	Analysis Date: **2/28/2024**	SeqNo: **3825488** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-80694**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **80694**	RunNo: **103396**
Prep Date: **2/28/2024**	Analysis Date: **2/28/2024**	SeqNo: **3825489** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.6	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2402C30**

11-Mar-24

Client: HILCORP ENERGY

Project: San Juan 31 6 Unit 204

Sample ID: **MB-80669**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **80669**	RunNo: **103382**
Prep Date: **2/27/2024**	Analysis Date: **2/28/2024**	SeqNo: **3824791** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.4		10.00		94.3	61.2	134			

Sample ID: **LCS-80669**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **80669**	RunNo: **103382**
Prep Date: **2/27/2024**	Analysis Date: **2/28/2024**	SeqNo: **3824792** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	10	50.00	0	83.5	59.7	135			
Surr: DNOP	4.8		5.000		96.8	61.2	134			

Sample ID: **MB-80688**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **80688**	RunNo: **103382**
Prep Date: **2/28/2024**	Analysis Date: **2/28/2024**	SeqNo: **3824817** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.5		10.00		95.2	61.2	134			

Sample ID: **LCS-80688**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **80688**	RunNo: **103382**
Prep Date: **2/28/2024**	Analysis Date: **2/28/2024**	SeqNo: **3824818** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.6		5.000		92.2	61.2	134			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2402C30**

11-Mar-24

Client: HILCORP ENERGY

Project: San Juan 31 6 Unit 204

Sample ID: **lcs-80646**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **80646**	RunNo: **103405**
Prep Date: **2/26/2024**	Analysis Date: **2/27/2024**	SeqNo: **3825956** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	96.4	70	130			
Surr: BFB	2200		1000		224	15	244			

Sample ID: **2402c30-001ams**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **S-1 0-6'**	Batch ID: **80646**	RunNo: **103405**
Prep Date: **2/26/2024**	Analysis Date: **2/27/2024**	SeqNo: **3825958** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.7	23.63	0	102	70	130			
Surr: BFB	2200		945.2		237	15	244			

Sample ID: **2402c30-001amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **S-1 0-6'**	Batch ID: **80646**	RunNo: **103405**
Prep Date: **2/26/2024**	Analysis Date: **2/27/2024**	SeqNo: **3825959** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.8	23.83	0	91.7	70	130	10.2	20	
Surr: BFB	2000		953.3		214	15	244	0	0	

Sample ID: **mb-80646**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **80646**	RunNo: **103405**
Prep Date: **2/26/2024**	Analysis Date: **2/27/2024**	SeqNo: **3827281** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		102	15	244			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2402C30**

11-Mar-24

Client: HILCORP ENERGY

Project: San Juan 31 6 Unit 204

Sample ID: **lcs-80646**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **80646**	RunNo: **103405**
Prep Date: **2/26/2024**	Analysis Date: **2/27/2024**	SeqNo: **3825988** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	95.3	70	130			
Toluene	0.96	0.050	1.000	0	95.7	70	130			
Ethylbenzene	0.97	0.050	1.000	0	97.0	70	130			
Xylenes, Total	2.9	0.10	3.000	0	97.3	70	130			
Surr: 4-Bromofluorobenzene	0.97		1.000		96.7	39.1	146			

Sample ID: **2402c30-002ams**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **S-1 2'**	Batch ID: **80646**	RunNo: **103405**
Prep Date: **2/26/2024**	Analysis Date: **2/27/2024**	SeqNo: **3825993** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.024	0.9728	0	99.7	70	130			
Toluene	0.99	0.049	0.9728	0	102	70	130			
Ethylbenzene	1.0	0.049	0.9728	0	105	70	130			
Xylenes, Total	3.1	0.097	2.918	0	105	70	130			
Surr: 4-Bromofluorobenzene	0.96		0.9728		98.3	39.1	146			

Sample ID: **2402c30-002amsd**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **S-1 2'**	Batch ID: **80646**	RunNo: **103405**
Prep Date: **2/26/2024**	Analysis Date: **2/27/2024**	SeqNo: **3825994** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.024	0.9699	0	96.8	70	130	3.30	20	
Toluene	0.96	0.048	0.9699	0	98.8	70	130	3.54	20	
Ethylbenzene	0.99	0.048	0.9699	0	102	70	130	3.21	20	
Xylenes, Total	3.0	0.097	2.910	0	102	70	130	2.90	20	
Surr: 4-Bromofluorobenzene	0.96		0.9699		99.2	39.1	146	0	0	

Sample ID: **mb-80646**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **80646**	RunNo: **103405**
Prep Date: **2/26/2024**	Analysis Date: **2/27/2024**	SeqNo: **3827282** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.96		1.000		96.0	39.1	146			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

eurofins | Environment Testing

Eurofins Environment Testing South Central, LLC
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: HILCORP ENERGY Work Order Number: 2402C30 RcptNo: 1

Received By: Juan Rojas 2/24/2024 7:00:00 AM

Completed By: Juan Rojas 2/24/2024 7:54:38 AM

Reviewed By: CM 2/26/24

Chain of Custody

1. Is Chain of Custody complete?	Yes ☐	No ☑	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: JR 2/24/24

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

Client missing mailing address and phone number. JR 2/24/24

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.5	Good	Yes	Yogi		

Chain-of-Custody Record

Client: Hilcorp

Mailing Address:

Phone #:

email or Fax#: brandon.sinclair@hilcorp.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☑ Standard 5 day ☐ Rush

Project Name: San Juan 31-6 Unit 204

Project #:

Project Manager: Kate Kaufman

Sampler: Brandon Sinclair

On Ice: ☑ Yes ☐ No

# of Coolers: 1 yeah

Cooler Temp(including CF): 0.3+0.2=0.5 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2402C30	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
2-21	1030	Soil	S-1 0-6''	4 oz jar	cool	-001	✓	✓					✓			
	1045		S-1 2'			-002										
	1100		S-1 4'			-003										
	1130		S-2 0-6''			-004										
	1145		S-2 2'			-005										
	1200		S-2 4'			-006										
	1230		S-3 0-6''			-007										
	1245		S-3 2'			-008										
	1300		S-3 4'			-009										
	1315		S-4 0-6''			-010										
	1330		S-4 2'			-011										
	1345		S-4 4'			-012										

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
2/23/24	1604		Chad Walls		2/23/24	1604
2/23/24	1800	Chad Walls		Courier	2/24/24	7:00

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

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Energy, Minerals and Natural Resources
Oil Conservation Division
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Santa Fe, NM 87505

QUESTIONS

Action 376167

QUESTIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 376167
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2404334116**
Incident Name	**NAPP2404334116 SAN JUAN 31-6 UNIT #204 @ 30-039-24437**
Incident Type	**Produced Water Release**
Incident Status	**Remediation Closure Report Received**
Incident Well	**[30-039-24437] SAN JUAN 31 6 UNIT #204**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	SAN JUAN 31-6 UNIT #204
Date Release Discovered	02/07/2024
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	*Not answered.*
Produced Water Released (bbls) Details	Cause: Equipment Failure | Pipeline (Any) | Produced Water | Released: 36 BBL | Recovered: 0 BBL | Lost: 36 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Some produced water was recovered via vac truck from secondary containment. Was partially mixed with precipitation.

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QUESTIONS (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 376167
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	**No, according to supplied volumes this does not appear to be a "gas only" report.**
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	**Yes**
Reasons why this would be considered a submission for a notification of a major release	**From paragraph A. "Major release" determine using:** **(1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.**
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

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.

I hereby agree and sign off to the above statement	Name: Kate Kaufman Title: Sr Environmental Specialist Email: kkaufman@hilcorp.com Date: 02/12/2024

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QUESTIONS (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 376167
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	OCD Imaging Records Lookup
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 300 and 500 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	None
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	160
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
On what estimated date will the remediation commence	07/30/2024
On what date will (or did) the final sampling or liner inspection occur	07/30/2024
On what date will (or was) the remediation complete(d)	07/30/2024
What is the estimated surface area (in square feet) that will be reclaimed	2500
What is the estimated volume (in cubic yards) that will be reclaimed	350
What is the estimated surface area (in square feet) that will be remediated	2500
What is the estimated volume (in cubic yards) that will be remediated	350
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 376167
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	*Not answered.*
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	*Not answered.*
(In Situ) Soil Vapor Extraction	*Not answered.*
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	*Not answered.*
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	*Not answered.*
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	*Not answered.*
Ground Water Abatement pursuant to 19.15.30 NMAC	*Not answered.*
OTHER (Non-listed remedial process)	Yes
Other Non-listed Remedial Process. Please specify	Soil analytical results are below closure criteria therefore no soil remediation is required.
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	

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.

I hereby agree and sign off to the above statement	Name: Kate Kaufman Title: Sr Environmental Specialist Email: kkaufman@hilcorp.com Date: 08/21/2024

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 376167
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 376167
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**366979**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**07/30/2024**
What was the (estimated) number of samples that were to be gathered	**3**
What was the sampling surface area in square feet	**10**

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	**Yes**
Was this release entirely contained within a lined containment area	**No**
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	2400
What was the total volume (cubic yards) remediated	350
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	2400
What was the total volume (in cubic yards) reclaimed	350
Summarize any additional remediation activities not included by answers (above)	All sample results were below NMOCD action criteria therefore not further remediation was required.

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 (in .pdf format) 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.

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.

I hereby agree and sign off to the above statement	Name: Kate Kaufman Title: Sr Environmental Specialist Email: kkaufman@hilcorp.com Date: 08/21/2024

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

QUESTIONS (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 376167
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 376167

CONDITIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	372171
	Action Number: 376167
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Remediation closure report approved, release resolved.	10/8/2024