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

### State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe. NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

### 1220 S. St. Francis Dr., Santa Fe, NM 87505 Santa Fe, NM 87505 Release Notification and Corrective Action **OPERATOR** Final Report Initial Report Name of Company Enterprise Crude Oil Contact Christopher A Spore, P.G. Address 4211 S Telephone Road Hobbs, NM Telephone No. 432-221-7746 **Facility Name** Devon Ironhouse 19 Facility Type Tank Battery Surface Owner Mineral Owner API No. 30-025-40676 LOCATION OF RELEASE Unit Letter Section Township North/South Line Range Feet from the Feet from the East/West Line County S19 T18S R35E 200 WL. Lea **Latitude** 32.726676° **Longitude** -103.499699° NATURE OF RELEASE Type of Release Crude Oil Volume of Release 154.1 bbl Volume Recovered 60 bbl Source of Release Crude Oil Transport Truck Date and Hour of Occurrence Date and Hour of Discovery 12/13/17 1520 12/13/17 1742 Was Immediate Notice Given? If YES, To Whom? \*After hours call to Mark Whitaker @ 575-370-3186 By Whom? Christopher A Spore Date and Hour 12/13/17 1757 Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. ☐ Yes ⊠ No If a Watercourse was Impacted, Describe Fully.\* Describe Cause of Problem and Remedial Action Taken.\* Crude oil transport driver was loading from tank battery and overfilled tank trailer. Upon discovery, the LACT unit was turned off, stopping the flow of crude oil. Describe Area Affected and Cleanup Action Taken.\* Vacuum truck was immediately dispatched. All free crude oil was recovered and returned to the producers tank. Environmental contractor was dispatched to continue response work. During emergency response activities, impacted caliche was excavated and hauled to Lea Land. Samples were collected during excavation activities to demonstrate delineation and complete contaminant removal. Clean material was purchased to backfill excavation. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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. OIL CONSERVATION DIVISION Signature: uttam Hall Approved by Environmental Specialist: Printed Name: Christopher A Spore, P.G. Title: Lead Field Environmental Scientist Approval Date: 4/10/2023 Expiration Date: N/A E-mail Address: caspore@eprod.com Conditions of Approval: Attached

None

Date: 02/14/2018

Phone: 432-221-7746

Released to Imaging: 4/10/2023 10:49:40 AM





### Remediation and Closure Report:

Devon Ironhouse 19 State Com #1H 30-025-40676 \* 1RP-4895 Talon Project No. 700348.418.01

### **Prepared For:**

Enterprise Crude Oil 4211 S. Telephone Road Hobbs, New Mexico 88240

### **Prepared By:**

TALON/LPE 408 W. Texas Avenue Artesia, New Mexico 88210

February 14, 2018

Received by OCD: 4/3/2023 3:13:35 PM

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Ms. Olivia Yu **NMOCD District 1** 1625 N. French Dr. Hobbs, NM 88240

Subject:

Remediation and Closure Report

Devon Ironhouse 19 State Com #1H

30-025-40676 \* 1RP-4895

Dear Ms. Yu,

Enterprise Crude Oil has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced location. The incident description, soil sampling results, remediation activities and closure request are submitted herein.

### **Site Information**

The Ironhouse 19 State Com #1H is located approximately twenty-three (23) miles west of Hobbs, New Mexico. The legal location for this release is Unit Letter N, Section 19, Township 18 South and Range 35 East in Lea County, New Mexico. More specifically the latitude and longitude for the release are 32.726676 North and -103.499699 West. A site plan is presented in Appendix I.

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of Kimbrough-Lea complex with 0 to 3 percent slopes. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is Pleistocene in age and is comprised of eolian deposits. Drainage courses in this area are normally dry.

### **Ground Water and Site Ranking**

The New Mexico State Engineer web site indicates that the nearest ground water is 117' below ground surface in Section 25, Township 18 South and Range 34 East. See Appendix II for the referenced groundwater data in the area.

Therefore the ranking for this site is a 0 based on the following:

Depth to ground water >100' Wellhead Protection Area >1000' Distance to surface water body >1000'

Based upon the site ranking of 0, NMOCD Recommended Remedial Action Levels (RRAL) are 50 mg/kg for BTEX, 10 mg/kg for Benzene, 5,000 mg/kg for TPH. The recommended guideline for Total Chlorides is 600 mg/kg.

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### **Incident Description**

On December 13, 2017, a crude oil transport truck was loading from the tank battery and overfilled the tank trailer. Upon discovery, the LACT unit was immediately shut down stopping the flow of crude. A vacuum truck was dispatched to the location recovering 60 barrels of the 154 barrels of crude oil released. A site plan is presented in Appendix I which illustrates the impacted area.

### **Remedial Actions Taken**

Due to this location being a high truck traffic battery, immediate remedial actions were taken. The client and facility owner did not want the trucks spreading the release further on location. The NMOCD was verbally notified that remedial activities were being initiated.

Four (4) loads of caliche were brought in and spread over the release to soak up the remaining standing fluids. This was done because wet soil cannot be transported and Lea Land does not accept liquids for disposal.

The visually impacted areas were excavated to the horizontal extent shown on the attached site plan. Delineation and confirmation samples were conducted concurrently with excavation activities. Excavation depths are noted on the site plan and the analytical data is summarized in the following data table. It should be noted that historical chlorides were indicated on the laboratory analysis in two (2) locations beyond the Enterprise area of impact. These areas were also excavated to the depths shown on the site plan.

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO	TPH (mg/kg) EXT DRO
S-1	0.0	< 0.300	512	<10	<10	<10
	1.0	<0.300	<16	<10	<10	<10
S-2	1.0	13.0	208	124	1940	600
S-3	1.0	0.471	288	<10	107	18.6
S-4	0.0	< 0.300	1600	<10	<10	<10
	0.5	<0.300	352	<10	<10	<10
S-5	1.0	3.52	1720	24.5	419	71.4
	2.0	•••	1520			
	2.5		256			
S-6	1.0	<0.300	368	<10	<10	<10
S-7	1.0	237	48	612	2170	344
	2.0	3.33			-	
S-8	1.0	2.36	144	19.7	291	70.7
S-9	1.0	6.26	560	35.2	402	38.4

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Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO	TPH (mg/kg) EXT DRO
S-10	0.0	< 0.300	528	<10	<10	<10
	0.5	< 0.300	112	<10	<10	<10
S-11	0.0	< 0.300	1800	<10	58.8	10.5
	2.0		720			PR PR
	2.5		32			

<sup>--</sup> Analyte Not Tested

All impacted soil was transported to Lea Land, LLC, an approved NMOCD disposal facility (Permit No. WM-01-035). The excavated areas were backfilled with clean caliche and machine compacted to match the surrounding location.

### Closure

On behalf of Enterprise Crude Oil, we respectfully request that no further actions be required and that closure with respect to this release be granted. A Final C-141 is also attached. See Appendix III.

Should you have any questions or if further information is required, please do not hesitate to contact our office at (575)-746-8768

Respectfully submitted,

TALON/LPE

Jacob Laird

**Environmental Scientist** 

Kimberly M. Wilson Project Manager

### Attachments:

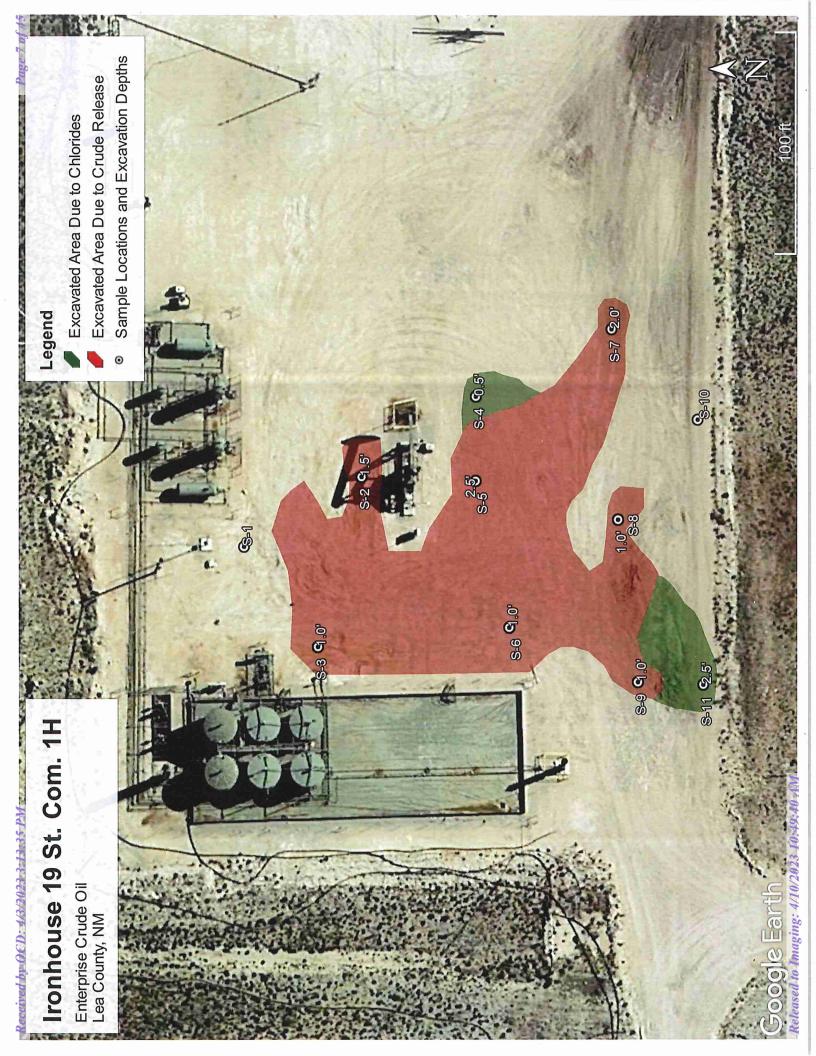
Appendix I Site Map

Appendix II Groundwater Data Appendix III Laboratory Results

Appendix IV Final C-141

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### APPENDIX I SITE MAP



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### APPENDIX II GROUNDWATER DATA



### New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW#### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned,

C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

18S 34E

(quarters are smallest to

largest)

(NAD83 UTM in meters)

(In feet)

POD

Sub-QQQ

X

639839

Water DistanceDepthWellDepthWater Column

**POD Number** L 07928

12926 POD1

Code basin County 6416 4 Sec Tws Rng LE 4 4 1 19 18S 35E

2 2 3 25

640639 3622915 3621631

175

182

117 65

Average Depth to Water:

117 feet

Minimum Depth:

954

1041

117 feet

Maximum Depth:

117 feet

Record Count:2

UTMNAD83 Radius Search (in meters):

Easting (X): 640821.35

Northing (Y): 3621978.25

Radius: 1050

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

2/15/18 7:47 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

### APPENDIX III LABORATORY RESULTS

December 21, 2017

KIMBERLY WILSON

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: IRON HOUSE 19 STATE COM #1H

Enclosed are the results of analyses for samples received by the laboratory on 12/20/17 11:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene

Lab Director/Quality Manager

Released to Imaging: 4/10/2023 10:49:40 AM

TALON LPE KIMBERLY WILSON 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

12/20/2017

Sampling Date:

12/19/2017

Reported:

12/21/2017

Sampling Type:

Soil

Project Name:

IRON HOUSE 19 STATE COM #1H

Sampling Condition:

Cool & Intact

Project Number: Project Location:

701839.415.01 LEA COUNTY, NM Sample Received By:

Tamara Oldaker

### Sample ID: S-1 0' (H703530-01)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2017	ND	1.73	86.6	2.00	0.549	
Toluene*	0.072	0.050	12/20/2017	ND .	1.68	84.1	2.00	1.21	
Ethylbenzene*	0.057	0.050	12/20/2017	ND	1.68	84.2	2.00	0.554	
Total Xylenes*	<0.150	0.150	12/20/2017	ND	5.18	86.3	6.00	0.664	
Total BTEX	<0.300	0.300	12/20/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	92.6	% 72-148							-
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	12/21/2017	ND	432	108	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2017	ND	237	119	200	3.35	
DRO >C10-C28*	<10.0	10.0	12/20/2017	ND	234	117	200	13.0	
EXT DRO >C28-C36	<10.0	10.0	12/20/2017	ND					
Surrogate: 1-Chlorooctane	64.8	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	66.0	% 34.7-15	7						

### Cardinal Laboratories

\*=Accredited Analyte

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TALON LPE
KIMBERLY WILSON
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received:

12/20/2017

Sampling Date:

12/19/2017

Reported:

12/21/2017

Sampling Type:

Soil

Project Name:

IRON HOUSE 19 STATE COM #1H

Sampling Condition:

Cool & Intact

Project Number: Project Location:

701839.415.01 LEA COUNTY, NM Sample Received By:

Tamara Oldaker

### Sample ID: S-1 0.5' (H703530-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2017	ND	1.73	86.6	2.00	0.549	
Toluene*	<0.050	0.050	12/20/2017	ND	1.68	84.1	2.00	1.21	
Ethylbenzene*	<0.050	0.050	12/20/2017	ND	1.68	84.2	2.00	0.554	
Total Xylenes*	<0.150	0.150	12/20/2017	ND	5.18	86.3	6.00	0.664	
Total BTEX	<0.300	0.300	12/20/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	96.5	% 72-148							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					-
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/21/2017	ND	432	108	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10,0	12/20/2017	ND	237	119	200	3,35	
DRO >C10-C28*	<10.0	10.0	12/20/2017	ND	234	117	200	13.0	
EXT DRO >C28-C36	<10.0	10.0	12/20/2017	ND					
Surrogate: 1-Chlorooctane	84.4	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	84.3	% 34.7-15	7						

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\*=Accredited Analyte

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Celeg & Keena

TALON LPE KIMBERLY WILSON 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:

12/20/2017

Sampling Date:

12/19/2017

Reported:

12/21/2017

Sampling Type:

Soil

Project Name:

IRON HOUSE 19 STATE COM #1H

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number:

701839.415.01

Project Location:

LEA COUNTY, NM

Sample ID: S-2 1.0' (H703530-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	12/20/2017	ND	1.73	86.6	2.00	0.549	
Toluene*	3.57	0.500	12/20/2017	ND	1.68	84.1	2.00	1.21	
Ethylbenzene*	3.96	0.500	12/20/2017	ND	1.68	84.2	2.00	0.554	
Total Xylenes*	5.44	1.50	12/20/2017	ND	5.18	86.3	6.00	0.664	
Total BTEX	13.0	3.00	12/20/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	96.5	% 72-148							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	12/21/2017	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	124	50.0	12/20/2017	ND	237	119	200	3,35	
DRO >C10-C28*	1940	50.0	12/20/2017	ND	234	117	200	13.0	
EXT DRO >C28-C36	600	50.0	12/20/2017	ND					
Surrogate: 1-Chlorooctane	106 9	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	1169	% 3 <i>4 7-15</i>	7						

Surrogate: 1-Chlorooctadecane

116%

34.7-157

Cardinal Laboratories

\*=Accredited Analyte

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TALON LPE
KIMBERLY WILSON
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

12/20/2017

Sampling Date:

12/19/2017

Reported:

Received:

12/21/2017

Sampling Type:

Soil

Project Name:

IRON HOUSE 19 STATE COM #1H

Sampling Condition:

Cool & Intact

Project Number: Project Location:

701839.415.01 LEA COUNTY, NM Sample Received By:

Tamara Oldaker

Sample ID: S-3 1.0' (H703530-04)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/21/2017	ND	1.73	86.6	2.00	0.549	
Toluene*	0.112	0.050	12/21/2017	ND	1.68	84.1	2.00	1.21	
Ethylbenzene*	0.143	0.050	12/21/2017	ND	1.68	84.2	2.00	0.554	
Total Xylenes*	0.216	0.150	12/21/2017	ND	5.18	86.3	6.00	0.664	
Total BTEX	0.471	0.300	12/21/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	96.5	% 72-148	}						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	12/21/2017	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	. <10.0	10.0	12/20/2017	ND	237	119	200	3.35	
DRO >C10-C28*	107	10.0	12/20/2017	ND	234	117	200	13.0	
EXT DRO >C28-C36	18.6	10.0	12/20/2017	ND					
Surrogate: 1-Chlorooctane	89.0	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	91.5	% 34.7-15	7						

Cardinal Laboratories

Received by OCD: 4/3/2023 3:13:35 PM

\*=Accredited Analyte

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Celeg & Freno

TALON LPE
KIMBERLY WILSON
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received:

12/20/2017

**CARDINAL** Laboratories

Sampling Date:

12/19/2017

Reported:

12/21/2017

Sampling Type:

Soil

Project Name:

IRON HOUSE 19 STATE COM #1H

Sampling Condition:

Cool & Intact

Project Number: Project Location:

701839.415.01 LEA COUNTY, NM Sample Received By:

Tamara Oldaker

Sample ID: S-4 0' (H703530-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/21/2017	ND	1.73	86.6	2.00	0.549	
Toluene*	<0.050	0.050	12/21/2017	ND	1.68	84.1	2.00	1.21	
Ethylbenzene*	<0.050	0.050	12/21/2017	ND	1.68	84.2	2.00	0.554	
Total Xylenes*	<0.150	0.150	12/21/2017	ND	5.18	86.3	6.00	0.664	
Total BTEX	<0.300	0.300	12/21/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	94.69	6 72-148						*	
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1600	16.0	12/21/2017	ND	432	108	400	3.77	
TPH 8015M	mg/l	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2017	ND	237	119	200	3.35	
DRO >C10-C28*	<10.0	10.0	12/20/2017	ND	234	117	200	13.0	
EXT DRO >C28-C36	<10.0	10.0	12/20/2017	ND					
Surrogate: 1-Chlorooctane	86.5 %	6 28.3-164	!						
Surrogate: 1-Chlorooctadecane	85.9 %	6 34.7-157	,						

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\*=Accredited Analyte

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KIMBERLY WILSON
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received:

12/20/2017

Sampling Date:

12/19/2017

Reported:

12/21/2017

Sampling Type:

Soil

Project Name:

IRON HOUSE 19 STATE COM #1H

Sampling Condition:

Cool & Intact

Project Number: Project Location:

701839.415.01 LEA COUNTY, NM

84.6 %

34.7-157

Sample Received By:

Tamara Oldaker

Sample ID: S-4 0.5' (H703530-06)

BTEX 8021B	mg/	/kg	Analyze	d By: MS			-		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/21/2017	ND	1.73	86.6	2.00	0.549	
Toluene*	< 0.050	0.050	12/21/2017	ND	1.68	84.1	2.00	1.21	
Ethylbenzene*	<0.050	0.050	12/21/2017	ND	1.68	84.2	2.00	0.554	
Total Xylenes*	<0.150	0.150	12/21/2017	ND	5.18	86.3	6.00	0.664	
Total BTEX	<0.300	0.300	12/21/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	94.1	% 72-148							
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	12/21/2017	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2017	ND	237	119	200	3.35	
DRO >C10-C28*	<10.0	10.0	12/20/2017	ND	234	117	200	13.0	
EXT DRO >C28-C36	<10.0	10.0	12/20/2017	ND					
	<10.0	10.0	12/20/2017	,,,,					

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Surrogate: 1-Chlorooctadecane

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ARTESIA NM, 88210
Fax To: (575) 745-8905

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**BTEX 8021B** 

12/20/2017

Sampling Date:

12/19/2017

Reported:

12/21/2017

Sampling Type:

Soil

Project Name:

IRON HOUSE 19 STATE COM #1H

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number:

701839.415.01

Project Location:

LEA COUNTY, NM

mg/kg

Sample ID: S-5 1.0' (H703530-07)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.068	0.050	12/21/2017	ND	1.73	86.6	2.00	0.549	
Toluene*	0.703	0.050	12/21/2017	ND	1.68	84.1	2.00	1.21	
Ethylbenzene*	1.13	0.050	12/21/2017	ND	1.68	84.2	2.00	0.554	
Total Xylenes*	1,62	0.150	12/21/2017	ND	5.18	86.3	6.00	0.664	
Total BTEX	3.52	0.300	12/21/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	98.0	% 72-148							
Chloride, SM4500Cl-B	mg/	kg	Anaiyze	d By: AC	:				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	1720	16.0	12/21/2017	ND	416	104	400	3.92	QM-07
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*	24.5	10.0	12/20/2017	ND	237	119	200	3,35	
DRO >C10-C28*	419	10.0	12/20/2017	ND	234	117	200	13.0	
EXT DRO >C28-C36	71.4	10.0	12/20/2017	ND					

Analyzed By: MS

Surrogate: 1-Chlorooctane

81.4%

28.3-164

Surrogate: 1-Chlorooctadecane

82.4 %

34.7-157

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Celly & Kenne

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Received:

12/20/2017

Sampling Date:

12/19/2017

Reported:

12/21/2017

Sampling Type:

Soil

Project Name:

IRON HOUSE 19 STATE COM #1H

Sampling Condition: Sample Received By:

Cool & Intact Tamara Oldaker

Project Number: Project Location: 701839.415.01

LEA COUNTY, NM

Sample ID: S-6 1.0' (H703530-08)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/21/2017	ND	1.73	86.6	2.00	0.549	
Toluene*	<0.050	0.050	12/21/2017	ND	1.68	84.1	2.00	1.21	
Ethylbenzene*	<0.050	0.050	12/21/2017	ND	1.68	84.2	2.00	0.554	
Total Xylenes*	<0.150	0.150	12/21/2017	ND	5.18	86.3	6.00	0.664	
Total BTEX	<0.300	0.300	12/21/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	92.8	% 72-148							
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	12/21/2017	ND	416	104	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2017	ND	237	119	200	3.35	
DRO >C10-C28*	<10.0	10.0	12/20/2017	ND	234	117	200	13.0	
EXT DRO >C28-C36	<10.0	10.0	12/20/2017	ND					
			•						

Surrogate: 1-Chlorooctane

81.5 %

28.3-164

Surrogate: 1-Chlorooctadecane

80.5 %

34.7-157

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ARTESIA NM, 88210
Fax To: (575) 745-8905

Received:

12/20/2017

Sampling Date:

12/19/2017

Reported:

12/21/2017

Sampling Type:

Soil

Project Name:

IRON HOUSE 19 STATE COM #1H

Sampling Condition:

Cool & Intact

Project Number: Project Location:

701839.415.01 LEA COUNTY, NM Sample Received By:

Tamara Oldaker

Sample ID: S-7 1.0' (H703530-09)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	8.14	0.500	12/21/2017	ND	1.73	86.6	2.00	0.549	
Toluene*	70.5	0.500	12/21/2017	ND	1.68	84.1	2.00	1.21	
Ethylbenzene*	69.1	0.500	12/21/2017	ND	1.68	84.2	2.00	0.554	
Total Xylenes*	89.2	1.50	12/21/2017	ND	5.18	86.3	6.00	0.664	
Total BTEX	237	3.00	12/21/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	111	% 72-148	•						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/21/2017	ND	416	104	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS		MEETING CO.			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	612	10.0	12/21/2017	ND	237	119	200	3.35	
DRO >C10-C28*	2170	10.0	12/21/2017	ND	234	117	200	13.0	
EXT DRO >C28-C36	344	10.0	12/21/2017	ND					
Surrogate: 1-Chlorooctane	125	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	114	% 34.7-15	7						

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aleg D. Keine

TALON LPE KIMBERLY WILSON 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:

12/20/2017

Sampling Date:

12/19/2017

Reported:

12/21/2017

Sampling Type:

Soil

Project Name:

IRON HOUSE 19 STATE COM #1H

Sampling Condition:

Cool & Intact

Project Number: Project Location: 701839.415.01 LEA COUNTY, NM

83.3 %

89.1 %

28.3-164

34.7-157

Sample Received By:

Tamara Oldaker

Sample ID: S-8 1.0' (H703530-10)

BTEX 8021B	mg/kg		Analyze	d By: MS				4	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	0.073	0.050	12/21/2017	ND	1.73	86.6	2.00	0.549	
Toluene*	0.478	0.050	12/21/2017	ND	1.68	84.1	2.00	1.21	
Ethylbenzene*	0.729	0.050	12/21/2017	ND	1.68	84.2	2.00	0.554	
Total Xylenes*	1.08	0.150	12/21/2017	ND	5.18	86.3	6.00	0.664	
Total BTEX	2.36	0.300	12/21/2017	ND	4				
Surrogate: 4-Bromofluorobenzene (PIL	99.5	% 72-148							
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	144	16.0	12/21/2017	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*	19.7	10.0	12/21/2017	ND	237	119	200	3.35	
DRO >C10-C28*	291	10.0	12/21/2017	ND	234	117	200	13.0	
T DRO >C28-C36 70.7 10.0		12/21/2017	ND						

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Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

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Fax To: (575) 745-8905

Received:

BTEX 8021B

12/20/2017

Sampling Date:

12/19/2017

Reported:

12/21/2017

Sampling Type:

Soil

Project Number:

IRON HOUSE 19 STATE COM #1H

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number: Project Location:

701839.415.01 LEA COUNTY, NM

mg/kg

Sample ID: S-9 1.0' (H703530-11)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	12/21/2017	ND	1.73	86.6	2.00	0.549	
Toluene*	1.78	0.500	12/21/2017	ND	1.68	84.1	2.00	1.21	
Ethylbenzene*	1.94	0.500	12/21/2017	ND	1.68	84.2	2.00	0.554	
Total Xylenes*	2.54	1.50	12/21/2017	ND	5.18	86,3	6.00	0.664	
Total BTEX	6.26	3.00	12/21/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	94.7	% 72-148	}						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	12/21/2017	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	35.2	10.0	12/21/2017	ND	237	119	200	3,35	

ND

ND

234

117

200

13.0

12/21/2017

12/21/2017

Analyzed By: MS

Surrogate: 1-Chlorooctane 92.9 % 28.3-164
Surrogate: 1-Chlorooctadecane 91.5 % 34.7-157

402

68.4

10.0

10.0

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DRO >C10-C28\*

**EXT DRO > C28-C36** 

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Received:

12/20/2017

Sampling Date:

12/19/2017

Reported:

12/21/2017

Sampling Type:

Soil

Project Name:

IRON HOUSE 19 STATE COM #1H

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number: Project Location: 701839.415.01

LEA COUNTY, NM

Sample ID: S-10 0' (H703530-12)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/21/2017	ND	1.73	86.6	2.00	0.549	
Toluene*	<0.050	0.050	12/21/2017	ND	1.68	84.1	2.00	1.21	
Ethylbenzene*	<0.050	0.050	12/21/2017	ND	1.68	.68 84.2	2.00	0.554	
Total Xylenes*	<0.150	0.150	12/21/2017	ND	5.18	86.3	6.00	0.664	
Total BTEX	<0.300	0.300	12/21/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	93.1	% 72-148							
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	12/21/2017	ND	416	104	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/21/2017	ND	237	119	200	3.35	
DRO >C10-C28*	<10.0	10.0	12/21/2017	ND	234	117	200	13.0	
EXT DRO >C28-C36	<10.0	10.0	12/21/2017	ND					
Surrogate: 1-Chlorooctane	87.8	% 28.3-16-	4						
Surrogate: 1-Chlorooctadecane	84.3	% 34.7-15	7						

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408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received:

12/20/2017

Sampling Date:

12/19/2017

Reported:

12/21/2017

Sampling Type:

Soil

Project Name:

IRON HOUSE 19 STATE COM #1H

Sampling Condition:

Cool & Intact

Project Number: Project Location:

701839.415.01 LEA COUNTY, NM Sample Received By:

Tamara Oldaker

Sample ID: S-10 0.5' (H703530-13)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/21/2017	ND	1.73	86.6	2.00	0.549	
Toluene*	<0.050	0.050	12/21/2017	ND	1.68	84.1	2.00	1.21	
Ethylbenzene*	<0.050	0.050	12/21/2017	ND	1.68	84.2	2.00	0.554	
Total Xylenes*	<0.150	0.150	12/21/2017	ND	5.18	86.3	6.00	0.664	
Total BTEX	<0.300	0.300	12/21/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	93.7 %	% 72-148							
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/21/2017	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/21/2017	ND	237	119	200	3,35	
DRO >C10-C28*	<10.0	10.0	12/21/2017	ND	234	117	200	13.0	
EXT DRO >C28-C36	<10.0	10.0	12/21/2017	ND					
Surrogate: 1-Chlorooctane	74.6 %	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	73.0 9	% 34.7-15	7						

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Received:

12/20/2017

Sampling Date:

12/19/2017

Reported:

12/21/2017

Sampling Type:

Soil

Project Name:

IRON HOUSE 19 STATE COM #1H

Sampling Condition: Sample Received By:

Cool & Intact Tamara Oldaker

Project Number:

701839.415.01

Project Location:

LEA COUNTY, NM

Sample ID: S-11 0' (H703530-14)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/21/2017	ND	1.73	86.6	2.00	0.549	
Toluene*	0.077	0.050	12/21/2017	ND	1.68	84.1	2.00	1.21	
Ethylbenzene*	0.074	0.050	12/21/2017	ND	1.68	84.2	2.00	0.554	
Total Xylenes*	<0.150	0.150	12/21/2017	ND	5.18	86.3	6.00	0.664	
Total BTEX	<0.300	0.300	12/21/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	93.4	% 72-148	}						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1800	16.0	12/21/2017	ND	416	104	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/21/2017	ND	237	119	200	3.35	
DRO >C10-C28*	58.8	10.0	12/21/2017	ND	234	117	200	13.0	
EXT DRO >C28-C36	10.5	10.0	12/21/2017	ND					
Surrogate: 1-Chlorooctane	81.0	% 28.3-16	4			-			
Surrogate: 1-Chlorooctadecane	81.1	% 347-15	7						

Surrogate: 1-Chlorooctadecane

81.1%

34.7-157

Cardinal Laboratories

Received by OCD: 4/3/2023 3:13:35 PM

\*=Accredited Analyte

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Celeg & Keens

TALON LPE
KIMBERLY WILSON
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received:

12/20/2017

Sampling Date:

12/19/2017

Reported:

BTEX 8021B

12/21/2017

Sampling Type:

Soil

Project Name:

IRON HOUSE 19 STATE COM #1H

Sampling Condition: Sample Received By:

Cool & Intact Tamara Oldaker

Project Number:

701839.415.01

Analyzed By: MS

Project Location:

LEA COUNTY, NM

mg/kg

Sample ID: S-11 0.5' (H703530-15)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/21/2017	ND	1.73	86.6	2.00	0.549	
Toluene*	<0.050	0.050	12/21/2017	ND	1.68	84.1	2.00	1.21	
Ethylbenzene*	<0.050	<0.050 0.050		ND	1.68	84.2	2.00	0.554	
Total Xylenes*	<0.150	0.150	12/21/2017	ND	5.18	86.3	6.00	0.664	
Total BTEX	<0.300	0.300	12/21/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	93.8	% 72-148							
		mg/kg							
Chloride, SM4500Cl-B	mg/	kg .	Analyze	d By: AC					
Chloride, SM4500CI-B  Analyte	mg/ Result	kg Reporting Limit	Analyze Analyzed	d By: AC  Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
· · · · · · · · · · · · · · · · · · ·			<u> </u>	-	BS 416	% Recovery	True Value QC 400	RPD 3.92	Qualifier
Analyte	Result	Reporting Limit	Analyzed 12/21/2017	Method Blank		·	·		Qualifier
Analyte Chloride	Result	Reporting Limit	Analyzed 12/21/2017	Method Blank		·	·		Qualifier Qualifier

ND

ND

234

117

200

13.0

Surrogate: 1-Chlorooctane

DRO >C10-C28\*

EXT DRO >C28-C36

77.2 %

<10.0

<10.0

28.3-164

12/21/2017

12/21/2017

10.0

10.0

Surrogate: 1-Chlorooctadecane

76.1 %

34.7-157

Cardinal Laboratories

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\*=Accredited Analyte

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Celeg There

### **Notes and Definitions**

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC

batch were accepted based on percent recoveries and completeness of QC data.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

Received by OCD:

\*=Accredited Analyte

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Celeg & Frene

### CARDINAL

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

H103530  S  S  S  S  S  S  S  S  S  S  S  S  S	Company Name: Teproject Manager: Address: 408 W. Address: 475-74 Phone #: 575-74 Project Name: Project Location: Sampler Name: Sampler Name: PRIVAUSE ONLY POR LAB L.D.
S-2  S-4  S-4  S-7  S-7  S-7  S-7  S-7  S-8  S-7  S-7	101 East Mariand, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 (575) 393-2326 FAX (575) 393-2476 (576) 183-2326 FAX (575) 393-2476 (576) 183-2476 (576
O. S.	(G)RAB OR (C)OMP.  # CONTAINERS  # CONTAINERS
and arising whether based in contract or fart, and arising whether based in contract or fart, and was defined unless made in withing and received pay:  Received By:  Rece	WASTEWATER SOIL OIL SLUDGE OTHER:  Tax
on shall be limited to the amount paid of the shall be limited to the amount paid of the shall be limited to the amount paid of the shall be limited by a shall be sh	Zip:
1450 229 3000 3050 2470 2472 2472 2472 Phone electric transcatter, separate explanation, proposed of the applicable phone Result: □ Yes Phone Result: □ Yes Phone Result: □ Yes	TOH 8015 M
D No Add'! Pho Add'! Fax	BTOX 8021 B  TOTAL CHLORIDGS  ANALYSIS  R
OCD: 4/3/2023 3:13:35 PM	REQUEST
OCD: 4/3	



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 19 of 19

Pag		Sa Pri
+		Company Name: Teproject Manager: Address: 408 W. City: Artesia Project *: 75-74 Project Name: Project Location: Sampler Name: Sampler Name: FOR USE ONLY 11 17 14
Cardinal cannot accept verbal changes. Please Isa with	FIGURE NOTE: Libility and Commaples. Configure Sability and client's exclusive remety for any clim arising whether used in contrast or not shall be limited to the amount paid by the client for the any climb analyses. All exists including those for registrate whatever crimb be deemed walved unless make the withing and received by Condital which 30 days after competition of the applicable of the shall conditable to the label for incidental or consequented admarger, heldeling whould include a interruptions, loss of use, or loss of profits incirred by client and results and the shall registrate in the standard profits incirred by client and the shall registrate in the standard shall registrate by the client whether such claim is based upon any of the above stand reasons or otherwise.  Relinquished By:  Relinquished By:  Relinquished By:  Time:  Received By:  Received By:  Received By:  RemARKS:  Sample Condition  CHECKED BY:  Infinite  Cool Infact  No No 23266	on East Mariand, Hobbs, NM 8826  \$75) 393-2326 FAX (575) 393-2476  Talon/LPE  Talon/LPE  Talon/LPE  Talon/LPE  State: NM  State: NM  Fax #: 575-7  746-8768 Fax
	any claim arising whether tasted in contrast or out shall be limited to the amount paid by the cleant for the and observed which shall be limited to the another paid by the cleant is substituted and contrast and in writing and received by Conditial within 30 days after completion of the six of cleant which shall be substituted by Cardinal which so are of the above artist of transport or otherwise.  Whether such claim is based usen any of the above artist or transport or otherwise.  Received By:  Received By:  Received By:  Cool Infact  Cool Infact  Cool Infact  No No  CHECKED BY:  CHECKED BY:	WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: PRESERV.  WASTEWATER  ACID/BASE: OTHER:  OTHER:  OTHER:  ACID/BASE: OTHER:  ACID/BASE: OTHER:  OTHER:  OTHER:  OTHER:  OTHER:  OTHER:  OTHER:  O  Attn:  ACID/BASE: ACID/BASE: OTHER:  OTHER:  OTHER:  OTHER:  O  ACID/BASE: OTHER:  OTHER:  OTHER:  OTHER:  OTHER: OTHER
	e imitted to the amount paid by the clant for the cardinal within 30 days after completion of the applies and of the applies and of the applies are of the above stand reasons are otherwise.  The phone Result:  Fax Result:  Fax Result:  REMARKS:  03-2326	S394/50/   Falon/LPE   TIME   TOSO   TOSO
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OCD: 4/3/2023 3:13:35 PM	P	



January 02, 2018

KIMBERLY WILSON

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: IRON HOUSE 19

Enclosed are the results of analyses for samples received by the laboratory on 12/28/17 16:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceg.texas.gov/field/ga/lab accred certif.html.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene

Lab Director/Quality Manager

Released to Imaging: 4/10/2023 10:49:40 AM

TALON LPE KIMBERLY WILSON 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:

12/28/2017

Sampling Date:

12/28/2017

Reported:

01/02/2018

Sampling Type:

Soil

Project Name:

**IRON HOUSE 19** 

Sampling Condition: Sample Received By:

Cool & Intact Tamara Oldaker

Project Number: Project Location:

700348415.01

LEA COUNTY, NM

Sample ID: S-11 2'R (H703619-01)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte

Reporting Limit

Reporting Limit

16.0

Analyzed Method Blank

% Recovery 100

True Value QC

400

Qualifier

Chloride

720

Result

1520

Result

16.0 12/29/2017 ND

BS 400

BS

400

RPD

14.8

14.8

Sample ID: S-5 2'R (H703619-02)

Chloride, SM4500Cl-B

Analyte

Analyzed By: AC

Analyzed

12/29/2017

Method Blank

ND

% Recovery

100

True Value QC

400

RPD

Qualifier

Sample ID: S-7 2'R (H703619-03)

Chloride

BIEX 8021B	mg	/ Kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.060	0.050	01/02/2018	ND	1.68	83.9	2.00	2.04	
Toluene*	0.740	0.050	01/02/2018	ND	1.65	82.4	2.00	5.06	
Ethylbenzene*	1.03	0.050	01/02/2018	ND	1.74	86.8	2.00	4.36	
Total Xylenes*	1.50	0.150	01/02/2018	ND	5.18	86.3	6.00	3.02	
Total BTEX	3,33	0.300	01/02/2018	. ND					

Surrogate: 4-Bromofluorobenzene (PIL

110%

72-148

Cardinal Laboratories

Received by OCD: 4/3/2023 3:13:35 PM

\*=Accredited Analyte

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alex trene

### **Notes and Definitions**

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS QM-07

recovery.

Analyte NOT DETECTED at or above the reporting limit ND

Relative Percent Difference

Samples not received at proper temperature of 6°C or below.

Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

Received by OCD: 4/3/2023 3:13:35 PM

\*=Accredited Analyte

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Celeg Thema

### 

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 4 of 4

Delivered By: Circle One)  Sampler - UPS - Bus - Other:    A A S   A D   Received By:   Delivered By:   Delivered By:   Timg: 05   Sample Condition   Cool Indet   Cool Indet	PLEASE NOTE: Linkiny and Barrages. Custical's facility and clasite excitative among fee any claim ration whether inseed in contract corrier, and is a familiar that among pack by the class for applicable onlycas. At claims including those for requirement any other course whichever shall be cleamed whether includes make in waiting and received by Candian Wallin 30 deep after complaints of an applicable onlycas. At claims including those for requirement whichever shall be cleamed which includes intermediate any claims of your few saturations. Including which illuminate by candidate, and in a constraint to link to be the origination of services interested which including by Walling is supported that the property of the claim of the property of the propert	+  +	JRAB OR (C)OMP. CONTAINERS ROUNDWATER ASTEWATER OIL.	Tranhouse 19	N. Texas Ave. 746-8768	101 East Marland, Nobbs, NW 88240 (575) 393-2326 FAX (575) 393-2476    Company Name: Talon/LPE
CHECKED BY:	A Model of France of the American park by the elect for the agreements and as white a few angles of the applicable for and reached by Cardinal Within 30 days after completion of the applicable for and reached by Cardinal Within 30 days after completion of the applicable for a first of the applicable for a first of the applicable for		LUDGE OTHER: GOD/BASE: DE/COOL OTHER:  Ch/	State: Zip:  Phone #:  Pax #:  PRESERVI SAMPLING  A. C.		P.O. #: ANALYSIS REQUEST

January 16, 2018

KIMBERLY WILSON

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: IRON HOUSE

Enclosed are the results of analyses for samples received by the laboratory on 01/09/18 14:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celes D. Keene

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

Sincerely,

Received by OCD: 4/3/2023 3:13:35 PM

Celey D. Keene

Lab Director/Quality Manager

TALON LPE KIMBERLY WILSON 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:

01/09/2018

Sampling Date:

01/09/2018

Reported:

01/16/2018

Sampling Type:

Soil

Project Name:

**IRON HOUSE** 

Sampling Condition:

Cool & Intact

Project Number:

700348,415,01

Project Location:

Analyte

Analyte

LEA COUNTY, NM

Sample Received By:

Tamara Oldaker

Sample ID: S-5 2.5' (H800086-01)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Method Blank

% Recovery

True Value QC

RPD

Qualifier

Chloride

Result 256

Result

32.0

Reporting Limit 16.0

Analyzed 01/10/2018

Analyzed

ND

BS 448

112

400

3,64

Sample ID: S-11 2.5' (H800086-02)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Chloride

Reporting Limit

16.0 01/10/2018 Method Blank ND

BS 448 % Recovery 112

True Value QC 400

RPD 3.64 Qualifier

Cardinal Laboratories

Received by OCD:

\*=Accredited Analyte

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Clay thene

### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

Relative Percent Difference RPD

Samples not received at proper temperature of 6°C or below.

Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below  $6^{\circ}\text{C}$ 

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

Received by OCD: 4/3/2023 3:13:35 PM

\*=Accredited Analyte

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Celeg & Keine

### CARDINAL

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 4 of 4

Received By: (Circle One) 2.6 (Circle One) 2.6	State: NM Zip: 882 IV  6-8768 Fax #: 575-746-8905  6-8768 Fax #: 575-746-8905  Project Owner: [International Control of the Co	6 %
St.		ANALYSIS REQUEST P.O.#: Company: Talon/LPE

APPENDIX IV FINAL C-141

Form C-141

Revised August 8, 2011

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 <u>District III</u> 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**

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Oil Conservation Division 1220 South St. Francis Dr.

				Sa	anta F	e, NM 8/3	505						
			Rele	ease Notific	catio	n and C	orrective A	ction	1				
						OPERA	TOR		☐ Initia	al Report		Final Report	
Name of Co	ompany	Enterp	rise Crud	e Oil		Contact		Christopher A Spore, P.G.					
Address	1 7			ne Road Hobbs,	NM	Telephone		432-221-7746					
Facility Nar	me	Devon	Ironhouse	e 19		Facility Ty	ре Т	Tank Battery					
Surface Ow	ner Stat	e		Mineral (	Owner	State		API No. 30-025-40676					
				LOCA		N OF RE	LEASE						
Unit Letter	Section	Township	Range	Feet from the		n/South Line	Feet from the	East/V	West Line	County			
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Was Immedi	ate Notice (		Yes [	No Not R	eanired	If YES, To	o Whom? ars call to Mark W	/hitaker	@ 575-370	)-3186			
By Whom?	Christonher		103	THO IN THOLK	equired		Hour 12/13/17 17						
Was a Water							olume Impacting		ercourse.				
			Yes 🗵	No									
If a Watercou	ırse was Im	pacted, Descr	ibe Fully.	*			CENTE	<b>D</b>					
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						B	y Olivia Yu	u at 1	11:23 a	m, Dec	18,	2017	
Dagariha Cay	use of Duckl	em and Reme	dial Astio	n Tolson *									
Describe Cat	ise of Probl	em and Reme	diai Actio	n Taken."									
	nsport drive	r was loading	from tank	battery and over	filled ta	ank trailer. Up	on discovery, the	LACT	unit was tu	rned off, sto	pping t	he flow of	
crude oil.													
Describe Are	a Affected	and Cleanup A	Action Tal	ken.*									
Vacuum truc	k was imme	ediately dispa	tched All	free crude oil wa	is recov	vered and retur	ned to the produc	ers tank	Environn	nental contra	actor w	as dispatched	
							d. Samples will b						
complete con	itaminant re	emoval.											
I hereby certi	ify that the i	information of	iven above	e is true and comm	lete to	the best of my	knowledge and u	ındersta	nd that nurs	suant to NM	OCD r	ules and	
							and perform correct						
public health	or the envi	ronment. The	acceptan	ce of a C-141 repo	ort by tl	he NMOCD n	narked as "Final R	Report" (	does not rel	ieve the ope	rator of	fliability	
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\* Attach Additional Sheets If Necessary

1RP-4895

nOY1735241593

pOY1735242234

Operator/Responsible Party,

The OCD has received the form C-141 you provided on \_12/14/2017\_ regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number \_1RP-4895\_\_ has been assigned. Please refer to this case number in all future correspondence.

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District \_1\_ office in \_\_Hobbs\_\_\_\_ on or before \_1/18/2018\_. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- •Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.
- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.
- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

### Jim Griswold

OCD Environmental Bureau Chief 1220 South St. Francis Drive Santa Fe, New Mexico 87505 505-476-3465 jim.griswold@state.nm.us







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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

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 203564

### **CONDITIONS**

Operator:	OGRID:
Franklin Mountain Energy 3, LLC	331595
44 Cook Street	Action Number:
Denver, CO 80206	203564
	Action Type:
	[IM-SD] Incident File Support Doc (ENV) (IM-BNF)

### CONDITIONS

Created By		Condition Date
bhall	None	4/10/2023