



**CLOSURE REQUEST**

**KAISER FRANCIS OIL COMPANY**

Created for submission to New Mexico Oil Conservation Division on 03/24/2022

**ASHLEY GIOVENGO**

*Environmental Manager - Permian*

**ENERGIZING AMERICA**

March 24, 2022

**Chad Hensley, Bradford Billings, Robert Hamlet, Jennifer Nobui, and/or Nelson Velez**

State of New Mexico

Energy, Minerals, and Natural Resources

New Mexico Oil Conservation Division

811 South First Street

Artesia, New Mexico 88210

## RE: CLOSURE REQUEST

<b>COMPANY</b>	Kaiser-Francis Oil Company
<b>LOCATION</b>	North Bell Lake Unit 4 #15 SWD
<b>API</b>	30-025-24771
<b>PLSS</b>	Unit K Sec 08 T23S R34E
<b>GPS</b>	32.3173599, 103.4942551
<b>INCIDENT ID</b>	nAPP2116429491

## BACKGROUND

Wescom, Inc., hereafter referred to as Wescom, has prepared this Closure Request on behalf of Kaiser-Francis Oil Company, hereafter referred to as KFOC, regarding the release at the North Bell Lake Unit 4 #15 SWD (Site) located in Unit K, Section 08, Township 23 South and Range 34 East in Lea County, New Mexico. The GPS coordinates are as follows: North 32.3173599 and West -103.4942551. Surface owner of the Site is Bureau of Land Management. The Site falls within New Mexico Oil Conservation Division (NMOCD), District 1 Hobbs.

On June 12, 2021, a hole developed in an underground poly line which resulted in the release of 100 barrels (bbls) of produced water. KFOC immediately isolated the source of the leak and constructed berms surrounding the spill area. Approximately 15 bbls of produced water was recovered. The spill area is directly to the North and West side of the caliche pad at the North Bell Lake Unit 4 #15 SWD as seen in Figure 1. Horizontal and vertical delineation sampling was conducted on June 16, 2021, and June 17, 2021. Wescom personnel returned to the Site on July 02, 2021, to continue vertical delineation sampling.

A remediation plan for the Site was submitted to NMOCD on September 09, 2021. KFOC received notice that the remediation plan had been approved, without conditions, on October 06, 2021. Wescom personnel returned to the Site on October 18, 2021, to perform a surface scrape of the spill area and to collect final confirmation samples. A closure request was sent to NMOCD on December 03, 2021, via electronic portal.



On December 29, 2021, KFOC received notification that the closure request had been denied due to inadequate depth to ground water (DTW) determination and reclamation of the off-pad spill area did not contain a minimum of four feet of non-waste earthen material with chloride concentrations less than 600 milligrams per kilogram (mg/kg).

Correspondence concerning DTW at the Site began on January 10, 2022. Chad Hensley of the NMOCD approved the use of water well, CP-1886-POD1 as DTW for the Site. CP-1886-POD1 was drilled to establish DTW for incident #nAPP2107043534 (see Attachment F). Well log data for CP-1886-POD1 verifies DTW exceeds 110 feet below ground surface (bgs) and is 0.68 miles West of the Site.

Wescom personnel returned to the Site on February 07, 2022, through February 10, 2022, and again on March 03 through March 04, 2022, to complete reclamation of the off-pad spill area. Excavation of the spill area was completed in accordance with 19.15.29.13 NMAC.

## SURFACE & GROUND WATER

The New Mexico Office of the State Engineer (OSE) records indicates the nearest depth to groundwater measurement is greater than 110 feet below ground surface (bgs) and is 0.68 miles West of the Site. No playas or lakes are located within a one-mile radius of this Site (Attachment C).

## KARST POTENTIAL

According to data from the Bureau of Land Management, this Site is located within low karst potential as shown in Attachment D. There are no indicators of karst around the Site surface.

## TARGET REMEDIAL LEVELS

The target cleanup levels are determined using the NMOCD Closure Criteria (19.15.29.12.B(4) and Table 1 NMAC, inserted below) including karst guidelines from the Bureau of Land Management. The applicable Recommended Remediation Action Levels (RRALs) are 10 parts per million (ppm) Benzene, 50 ppm combined benzene, toluene, ethyl benzene, and xylene (BTEX) and 2500 ppm Total Petroleum Hydrocarbons (TPH). Characterization of the vertical and horizontal extent of chloride concentration in the soil to a level of 20000 mg/kg (ppm) is also required.



Closure Criteria (19.15.29.12.B(4) and Table 1 NMAC)						
North Bell Lake Unit 4 #15 SWD — 32.3173599, -103.4942551						
Depth to Groundwater		Closure Criteria (unites in mg/kg)				
		Chloride * numerical limit or background, whichever is greater	TPH	GRO+DRO	BTEX	Benzene
Based on high karst potential		600	100		50	10
less than 50 ft bgs		600	100		50	10
51 ft to 100 ft bgs		10000	2500	1000	50	10
greater than 100 ft bgs	>100	20000	2500	1000	50	10
Surface Water	Yes or No	If yes, then				
< 300 feet from continuously flowing watercourse or other significant watercourse?	No					
< 200 feet from lakebed, sinkhole or playa lake	No					
Water Well or Water Source						
< 500 feet from spring or a private, domestic fresh water well used by less than 5 households for domestic or stock watering purposes?	No					
< 1000 feet from fresh water well or spring?	No					
Human and Other Areas						
< 300 feet from an occupied permanent residence, school, hospital, institution or church?	No					
Within incorporated municipal boundaries or within a defined municipal fresh water well field?	No					
< 100 feet from wetland?	No					
Within area overlying a subsurface mine?	No					
Within an unstable area?	No					
Within a 100-year floodplan?	No					

Table: Closure Criteria Statistics

## SITE ASSESSMENT AND DELINEATION

Beginning June 16, 2021, KFOC contracted Wescom to conduct off-site delineation to determine the horizontal and vertical extent of the spill. Horizontal delineation sampling was completed on June 17, 2021. A background sample, BG03, was collected 50 feet to the south of the caliche pad, as shown in Figure 1. A total of seven samples were collected on June 16, 2021, and 21 samples were collected on June 17, 2021. Samples analyzed for the purpose of determining the impacted area were delineated to the strictest closure criteria prior to DTW determination. Samples collected inside the impacted area are considerably lower than the applicable RRALs for this Site (see Table 1).

On July 02, 2021, Atkins Engineering drilled one borehole to determine the vertical extent of the release as seen in Figure 1. Laboratory analysis established a chloride concentration of 997 mg/kg at a depth of 19-feet; TPH and BTEX were non-detect at that depth. Delineation sample points are presented in Figure 1; laboratory analysis results are listed in Table 1.





## REMEDIATION ACTIVITIES

On October 18, 2021, Wescom personnel arrived on Site to oversee the removal of impacted soils and to perform confirmation sampling. A backhoe was used to remove approximately 40 yards of contaminated soil from the spill area. As per the approved remediation plan, 33 composite confirmation samples were collected over the two-day sampling and excavation period. All the confirmation samples were below the applicable RRALs for the Site (see Table 2.) however, according to 19.15.29.13 NMAC, all off pad spill areas must contain a minimum of four feet non-waste containing uncontaminated, earthen material with chloride concentrations less than 600 mg/kg.

Wescom personnel returned to the Site on February 08, through February 10, 2022, to complete remediation of the off-pad spill area. A track-hoe was utilized to remove approximately 2,556 cubic yards of contaminated soil from the spill area. Confirmation sampling commenced following the completion of excavation activities. A total of 26 composite confirmation samples were re-collected from the off-pad spill area. All the confirmation samples collected met the specifications of the 19.15.29.13 spill ruling except the wall samples CONF32A and CONF33A. Wescom personnel returned to the Site on March 03, 2022, to continue excavation of the North wall area. An additional 60 cubic yards of contaminated soil was removed from the North wall area. CONF32B was below the applicable RRALs for the Site and met the standards for off-pad reclamation when sampled on March 07, 2022 (see Table 2).

Excavation of impacted soils behind the tank containment at the SWD began on February 08, 2022. Laboratory analysis results of CONF33A-Wall sample indicate that there are impacts that extend from the off-pad spill area onto the caliche pad just behind the tank containment. Sample CONF33A-Wall is located directly behind the SWD tank containment as shown in Figures 2 and 3. The fencing behind the containment was removed and the off-pad spill area was excavated to a depth of four feet bgs as well as part of the caliche pad. Approximately four feet of caliche pad remains behind the SWD containment, and further excavation of the on-pad area is not currently feasible. CONF33A-Wall sample is no longer located off-pad and is therefore not subject to off-pad reclamation standards.

Wescom requested a variance on the number of confirmation samples collected at the Site per the September 09, 2021, Remediation Plan. Chad Hensley of NMOCD approved the sampling variance on October 26, 2021. A total of 27 composite confirmation samples and six side wall samples were collected from the spill area. All soil samples were properly packaged, preserved, and transported to Envirotech, Inc. by chain of custody, and analyzed for Total Petroleum Hydrocarbons, or TPH, —Method 8015D, BTEX—Method 8021B, and Chlorides—Method 300.0. The results are presented in Table 2. Laboratory Analytical Reports are included in Attachment E. Locations of samples are shown in Figures 2 and 3.

The required 48-hour liner inspection and confirmation sampling notifications were sent on October 13, 2021, and on March 04, 2022, to Victoria Venegas, Robert Hamlet, Bradford Billings, Jennifer Nobui, Chad Hensley, and Mike Bratcher with the NMOCD in Santa Fe, New Mexico (see Attachments F and G).



## REQUEST FOR CLOSURE

On behalf of KFOC, Wescom hereby requests closure for the release associate with incident number nAPP2116429491 based on the logic below.

- Depth to water at the Site is greater than 110 feet bgs, as per CP-1886-POD1 which was approved by Chad Hensley of NMOCD (Attachment F).
- All confirmation areas meet the reclamation standard for off-pad spill areas per 19.15.29.13 NMAC
- CONF33A-Wall is located on-pad and therefore not subject to off-pad reclamation standards (see Table 2 and Figure 3).
- Impacted material was removed and properly disposed of at an approved facility.

If you have any questions or comments, please do not hesitate to call Mrs. Ashley Giovengo at (505) 382-1211.

Sincerely,

Wescom, Inc.

**Ashley Giovengo**

Environmental Manager-Permian

cc: Aaron Daniels, Kaiser Francis Oil Company

Bradford Billings, NMOCD

Robert Hamlet, NMOCD

Chad Hensley, NMOCD

Jennifer Nobui, NMOCD

Nelson Velez, NMOCD



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**North Bell Lake Unit 4 #15 SWD** | Incident ID: nAPP2116429491

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# REFERENCE MATERIALS

## FIGURES

**FIGURE 1.** Delineation Samples

**FIGURE 2.** Confirmation Sampling

**FIGURE 3.** Final Confirmation Sampling

## TABLES

**TABLE 1.** Laboratory Analysis Results: Delineation Samples

**TABLE 2.** Laboratory Analysis Results: Confirmation Samples

## ATTACHMENTS

**ATTACHMENT A.** C-141

**ATTACHMENT B.** Site Photos

**ATTACHMENT C.** Closure Criteria Supporting Documents

**ATTACHMENT D.** Karst Map

**ATTACHMENT E.** Envirotech Inc. Laboratory Analysis Reports

**ATTACHMENT F.** Depth to Water Determination Email

**ATTACHMENT G.** 48-hour Confirmation Sampling Notification Emails



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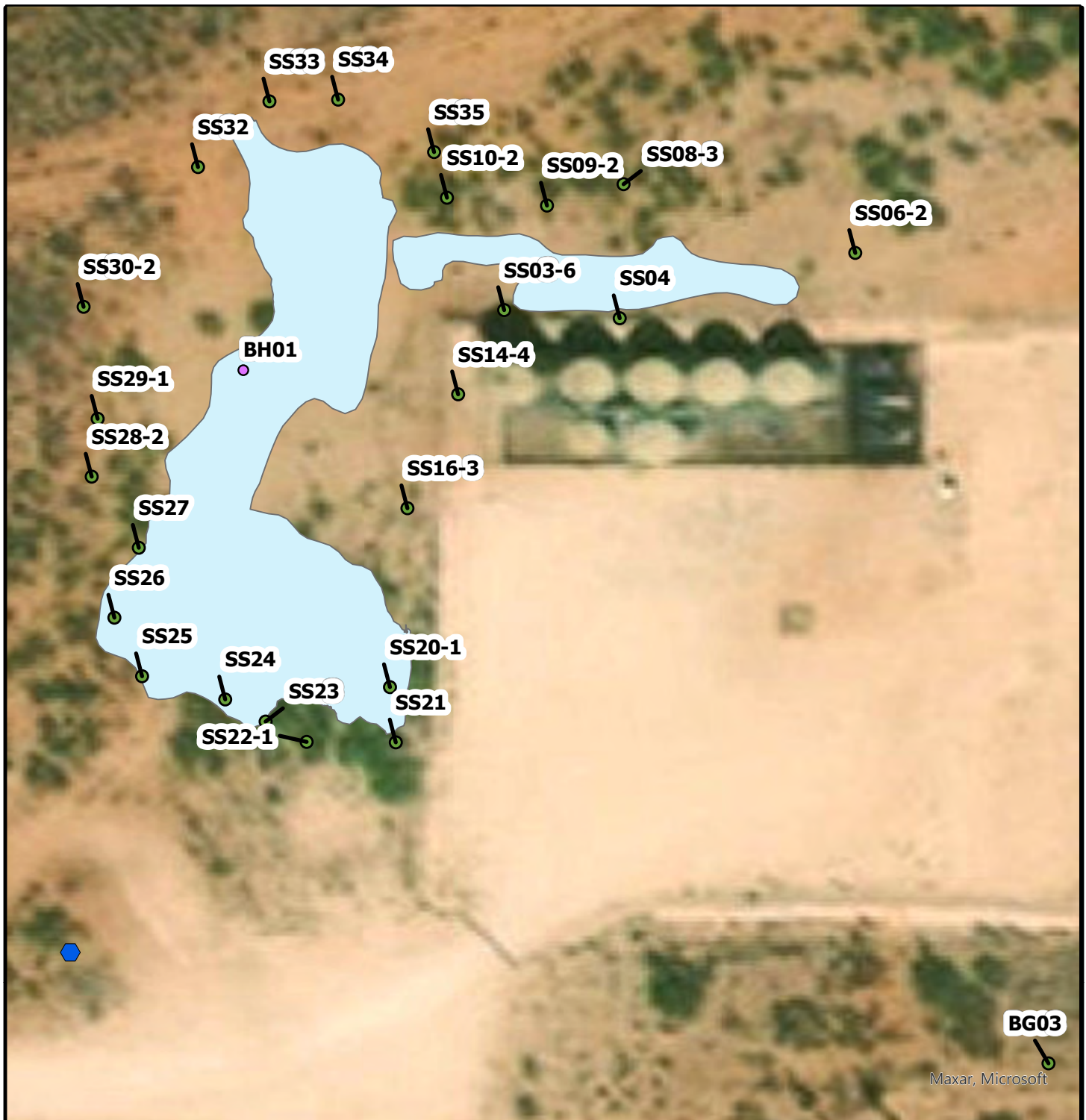
# FIGURES







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## Legend

-  GW Monitoring Well
-  Borehole Point
-  Sample Points
-  Visible Spill Area

## Figure 1. Spill Area

North Bell Lake Unit 4 #015

Incident ID: NAPP2116429491

API: 30-025-24771

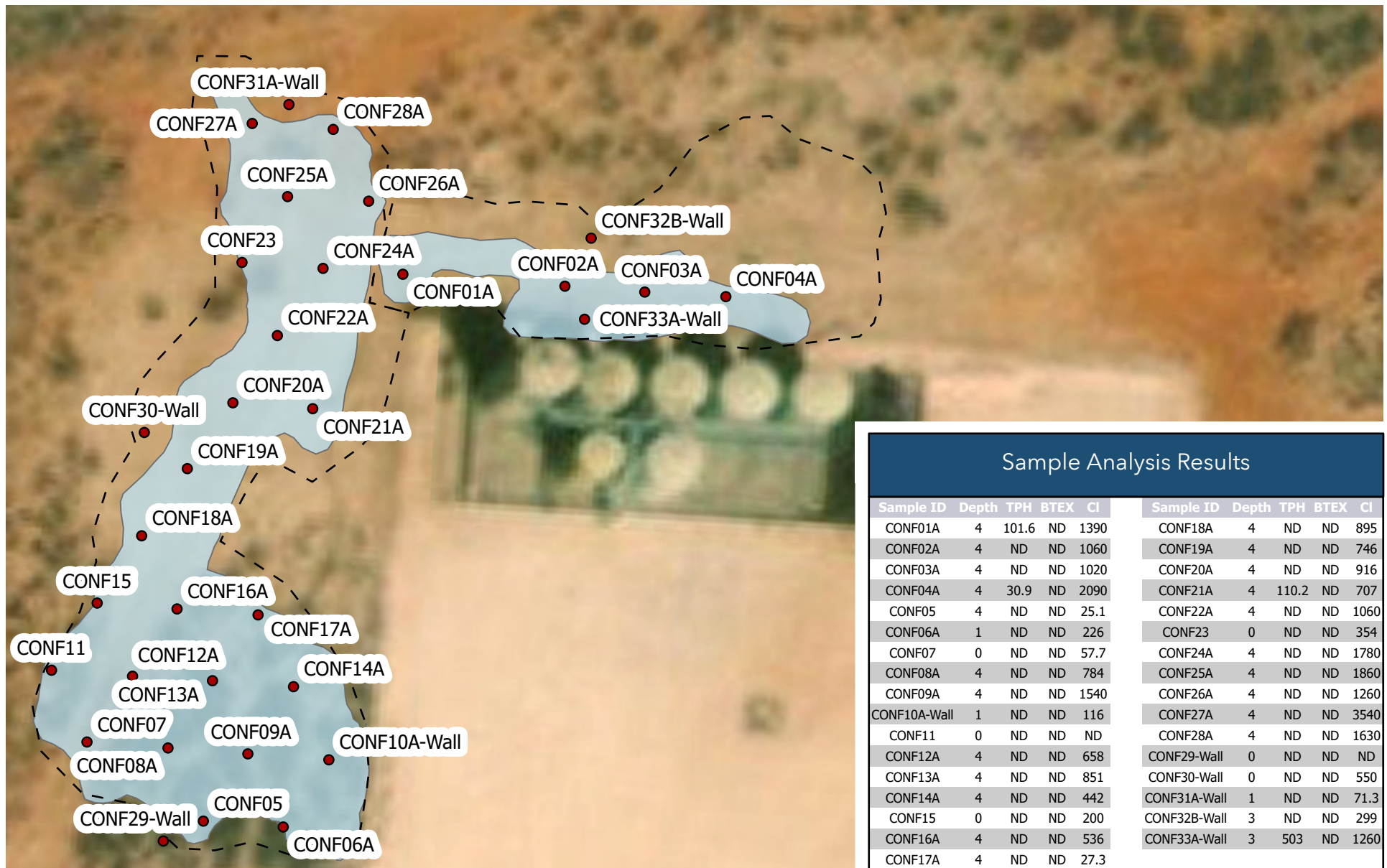
GPS Coordinates: 32.3173599, -103.4942551

Lea County, New Mexico

Kaiser-Francis Oil Company





**FIGURE 2. CONFIRMATION SAMPLES**

North Bell Lake Unit 4 #015

Incident ID: NAPP2116429491

API: 30-025-24771

GPS Coordinates: 32.3173599, -103.4942551

Lea, New Mexico

Kaiser Francis Oil Company

Released to Imaging: 5/3/2022 1:12:00 PM

**LEGEND**

● Sample Locations  
 [ ] Excavation Area

[ ] Spill Area



# TABLES



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**NBL Unit 4 #15 SWD** | Incident ID: nAPP2116429491

NBL Unit 4 #15 SWD   nAPP2116429491							
Kaiser-Francis Oil Company   3.24.2022							
Table 1. Delineation Laboratory Analysis Results							
Sample Description			Petroleum Hydrocarbons				Inorganic
Sample ID	Depth (ft.)	Date	Volatile		Extractable		Chloride (mk/kg)
			Benzene (mk/kg)	BTEX (total) (mk/kg)	TPH (mk/kg)	GRO+DRO (mk/kg)	
Closure Criteria			10	50	2500	1000	20000
SS03-6	0	6/17/2021	ND	ND	ND	ND	73.1
SS04	0	6/16/2021	ND	ND	ND	ND	181
SS06-2	0	6/17/2021	ND	ND	ND	ND	127
SS08-3	0	6/17/2021	ND	ND	ND	ND	54.3
SS09-2	0	6/16/2021	ND	ND	ND	ND	ND
SS10-2	0	6/16/2021	ND	ND	ND	ND	ND
SS14-4	0	6/17/2021	ND	ND	ND	ND	238
SS16-3	0	6/17/2021	ND	ND	ND	ND	ND
SS17-4	0	6/17/2021	ND	ND	ND	ND	177
SS20-1	0	6/17/2021	ND	ND	ND	ND	ND
SS21	0	6/17/2021	ND	ND	ND	ND	ND
SS22-1	0	6/17/2021	ND	ND	ND	ND	ND
SS23	0	6/17/2021	ND	ND	ND	ND	ND
SS24	0	6/17/2021	ND	ND	ND	ND	ND
SS25	0	6/17/2021	ND	ND	ND	ND	136
SS26	0	6/17/2021	ND	ND	ND	ND	ND
SS27	0	6/17/2021	ND	ND	ND	ND	ND
SS28-2	0	6/17/2021	ND	ND	ND	ND	ND
SS29-1	0	6/17/2021	ND	ND	ND	ND	ND
SS30-2	0	6/17/2021	ND	ND	ND	ND	ND
SS32	0	6/17/2021	ND	ND	ND	ND	ND
SS33	0	6/17/2021	ND	ND	ND	ND	ND
SS34	0	6/17/2021	ND	ND	ND	ND	32.5
SS35	0	6/17/2021	ND	ND	ND	ND	39.3
BH01	19	7/2/2021	ND	ND	ND	ND	997
BG03	0	6/16/2021	ND	ND	ND	ND	ND
BG03	2	6/16/2021	ND	ND	ND	ND	ND
BG03	4	6/16/2021	ND	ND	ND	ND	ND
BG03	6	6/16/2021	ND	ND	ND	ND	ND
ABBREVIATIONS							
BTEX — Benzene, Toluene, Ethylene, Xylene				GRO — Gasoline Range Organics			
DRO — Diesel Range Organics				ND — Non-detect			
ft. — Feet				mg/kg — Milligrams per Kilogram			
TPH — Total Petroleum Hydrocarbons							
Notes							
Bold Red - Results are above closure criteria							
Gray Highlight - Background Samples							



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NBL Unit 4 #15 SWD | Incident ID: nAPP2116429491



NBL Unit 4 #15 SWD   nAPP2116429491							
Kaiser-Francis Oil Company   3.24.2022							
Table 2. Confirmation Laboratory Analysis Results							
Sample Description			Petroleum Hydrocarbons				Inorganic
Sample ID	Depth (ft.)	Date	Volatile		Extractable		Chloride (mk/kg)
			Benzene (mk/kg)	BTEX (total) (mk/kg)	TPH (mk/kg)	GRO+DRO (mk/kg)	
Closure Criteria			10	50	2500	1000	20000
CONF01	0	10/18/2022	ND	ND	101.6	101.6	8380
CONF01A	4	2/9/2022	ND	ND	ND	ND	1390
CONF02	0	10/18/2022	ND	ND	775	775	6820
CONF02A	4	2/9/2022	ND	ND	ND	ND	1060
CONF03	0	10/18/2022	ND	ND	433	433	9150
CONF03A	4	2/9/2022	ND	ND	ND	ND	1020
CONF04	0	10/18/2022	ND	ND	220.2	220.2	2830
CONF04A	4	2/9/2022	ND	ND	30.9	30.9	2090
CONF05	0	10/18/2021	ND	ND	ND	ND	25.1
CONF06	0	10/18/2021	ND	ND	ND	ND	1770
CONF06A	1	2/9/2022	ND	ND	ND	ND	226
CONF07	0	10/18/2021	ND	ND	ND	ND	57.7
CONF08	0	10/18/2021	ND	ND	89.4	89.4	2210
CONF08A	4	2/10/2022	ND	ND	ND	ND	784
CONF09	0	10/18/2021	ND	ND	ND	ND	2240
CONF09A	4	2/9/2022	ND	ND	ND	ND	1540
CONF10-Wall	0	10/18/2021	ND	ND	79.2	79.2	4430
CONF10A-Wall	1	2/9/2022	ND	ND	ND	ND	116
CONF11	0	10/18/2021	ND	ND	ND	ND	ND
CONF12	0	10/18/2021	ND	ND	117.6	117.6	7880
CONF12A	4	2/10/2022	ND	ND	ND	ND	658
CONF13	0	10/18/2021	ND	ND	113.1	113.1	6120
CONF13A	4	2/9/2022	ND	ND	ND	ND	851
CONF14	0	10/18/2021	ND	ND	250.1	250.1	5220
CONF14A	4	2/9/2022	ND	ND	ND	ND	442
CONF15	0	10/18/2021	ND	ND	ND	ND	200
CONF16	0	10/18/2021	ND	ND	228.8	228.8	5120
CONF16A	4	2/10/2022	ND	ND	ND	ND	536
CONF17	0	10/18/2021	ND	ND	276.8	276.8	5810
CONF17A	4	2/10/2022	ND	ND	ND	ND	27.3
CONF18	0	10/18/2021	ND	ND	241.2	241.2	5670
CONF18A	4	2/10/2022	ND	ND	ND	ND	895
ABBREVIATIONS							
BTEX — Benzene, Toluene, Ethylene, Xylene				GRO — Gasoline Range Organics			
DRO — Diesel Range Organics				ND — Non-detect			
ft. — Feet				mg/kg — Milligrams per Kilogram			
TPH — Total Petroleum Hydrocarbons							
Notes							
Bold Red - Results are above closure criteria							
Gray Highlight - Background Samples							



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NBL Unit 4 #15 SWD | Incident ID: nAPP2116429491

NBL Unit 4 #15 SWD   nAPP2116429491							
Kaiser-Francis Oil Company   3.24.2022							
Table 2. Confirmation Laboratory Analysis Results							
Sample Description			Petroleum Hydrocarbons				Inorganic
Sample ID	Depth (ft.)	Date	Volatile		Extractable		Chloride (mk/kg)
			Benzene (mk/kg)	BTEX (total) (mk/kg)	TPH (mk/kg)	GRO+DRO (mk/kg)	
Closure Criteria			10	50	2500	1000	20000
CONF19	0	10/18/2021	ND	ND	95.8	95.8	5700
CONF19A	4	2/10/2022	ND	ND	ND	ND	746
CONF20	0	10/18/2021	ND	ND	112.3	112.3	2080
CONF20A	4	2/10/2022	ND	ND	ND	ND	916
CONF21	4	10/18/2021	ND	ND	207.6	207.6	6180
CONF21A	4	2/10/2022	ND	ND	110.2	110.2	707
CONF22	0	10/18/2021	ND	ND	486	486	7060
CONF22A	4	2/10/2022	ND	ND	ND	ND	1060
CONF23	0	10/18/2021	ND	ND	ND	ND	354
CONF24	0	10/18/2021	ND	ND	91.6	91.6	2570
CONF24A	4	2/10/2022	ND	ND	ND	ND	1780
CONF25	0	10/18/2021	ND	ND	ND	ND	689
CONF25A	4	2/10/2022	ND	ND	ND	ND	1860
CONF26	0	10/18/2021	ND	ND	ND	ND	7730
CONF26A	4	2/9/2022	ND	ND	ND	ND	1260
CONF27	0	10/18/2021	ND	ND	ND	ND	2200
CONF27A	4	2/9/2022	ND	ND	ND	ND	3540
CONF28	0	10/18/2021	ND	ND	ND	ND	1080
CONF28A	4	2/9/2022	ND	ND	ND	ND	1630
CONF29-Wall	0	10/19/2021	ND	ND	ND	ND	ND
CONF30-Wall	0	10/19/2021	ND	ND	ND	ND	550
CONF31-Wall	0	10/19/2021	ND	ND	ND	ND	1520
CONF31A-Wall	1	2/10/2022	ND	ND	ND	ND	71.3
CONF32 Wall	0	10/19/2021	ND	ND	167.3	167.3	946
CONF32A Wall	3	2/22/2022	ND	ND	166.7	166.7	673
CONF32B Wall	3	3/7/2022	ND	ND	ND	ND	299
CONF33 Wall	0	10/19/2021	ND	ND	136.9	136.9	4060
CONF33A Wall	3	2/9/2022	ND	ND	503	503	1260
ABBREVIATIONS							
BTEX — Benzene, Toluene, Ethylene, Xylene				GRO — Gasoline Range Organics			
DRO — Diesel Range Organics				ND — Non-detect			
ft. — Feet				mg/kg — Milligrams per Kilogram			
TPH — Total Petroleum Hydrocarbons							
Notes							
Bold Red - Results are above closure criteria							
Gray Highlight - Background Samples							



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NBL Unit 4 #15 SWD | Incident ID: nAPP2116429491

# ATTACHMENT A

C-141



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**NBL Unit 4 #15 SWD** | Incident ID: nAPP2116429491

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

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

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

Incident ID	NAPP2116429491
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party Kaiser-Francis Oil Company	OGRID 12361
Contact Name Aaron Daniels	Contact Telephone 918-491-4352
Contact email aarond@kfoc.net	Incident # (assigned by OCD) nAPP2116429491
Contact mailing address 6733 S. Yale Ave, Tulsa, OK 74136	

### Location of Release Source

Latitude 32.3173599 Longitude -103.4942551  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name North Bell Lake Unit 4 #15 SWD	Site Type SWD
Date Release Discovered 6/12/2021	API# (if applicable) 30-025-24771

Unit Letter	Section	Township	Range	County
K	08	23S	34E	Lea

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

### Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 100	Volume Recovered (bbls) 15
	Is the concentration of dissolved chloride in the produced water > 10,000 mg/l?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

#### Cause of Release

A hole developed in the underground poly line resulting in a release of ~100 bbls of produced fluid. ~15 bbls was recovered with a vac truck. Sampling for delineation/remediation purposes is currently underway.

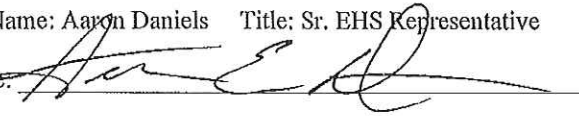
State of New Mexico  
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? The release was greater than 25 bbls.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes. Aaron Daniels -- KFOC. NMOCD via Notice of Release. 6/13/2021 via Notice of Release (NMOCD Online Portal).	

### Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:   
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: Aaron Daniels Title: Sr. EHS Representative Signature:  Date: 6/28/21 email: aarond@kfoc.net Telephone: 918-491-4352
<b>OCD Only</b>  Received by: _____ Date: _____

Incident ID	NAPP2116429491
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>&gt; 110</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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



Form C-141

Page 4

State of New Mexico  
Oil Conservation Division

Incident ID	NAPP2116429491
District RP	
Facility ID	
Application ID	

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

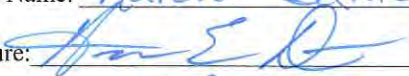
Printed Name:

Aaron Daniels

Title:

Sr. EHS Representative

Signature:



Date:

8/17/21

email:

aaron.d@kfoc.net

Telephone:

918-491-4352

**OCD Only**

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

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

State of New Mexico  
Oil Conservation Division

Incident ID	NAPP2116429491
District RP	
Facility ID	
Application ID	

## Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

**Closure Report Attachment Checklist:** *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Aaron Daniels Title: EHS Manager  
 Signature: [Signature] Date: 3/28/22  
 email: aaron.d@kfox.net Telephone: 918-491-4352

**OCD Only**

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

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

Closure Approved by: Jennifer Nobui Date: 05/03/2022  
 Printed Name: Jennifer Nobui Title: Environmental Specialist A



# ATTACHMENT B

## Site Photos



**Energizing America**

**wescominc.com** | info@wescominc.com | 218-724-1322

**NBL Unit 4 #15 SWD** | Incident ID: nAPP2116429491

North Bell Lake 4-15 SWD  
Incident ID: NAPP2116429491



Southeast Side of Spill Area



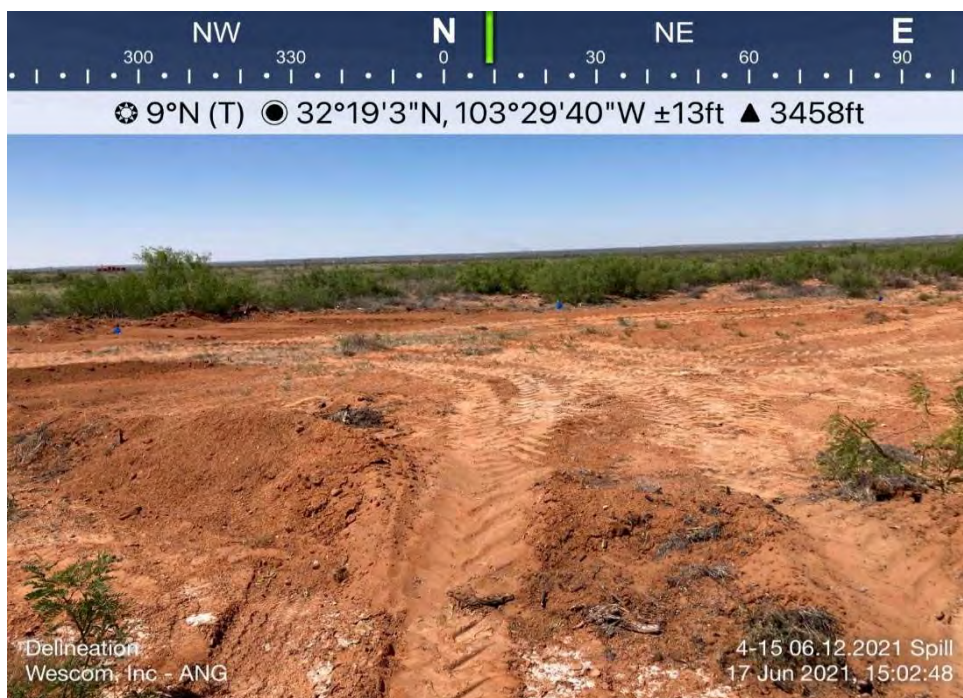
Northwest Side of Spill Area



North Bell Lake 4-15 SWD  
Incident ID: NAPP2116429491



Northeast Side of Spill Area



North Side of Spill Area

North Bell Lake 4-15 SWD  
Incident ID: NAPP2116429491



East Side of Spill Area



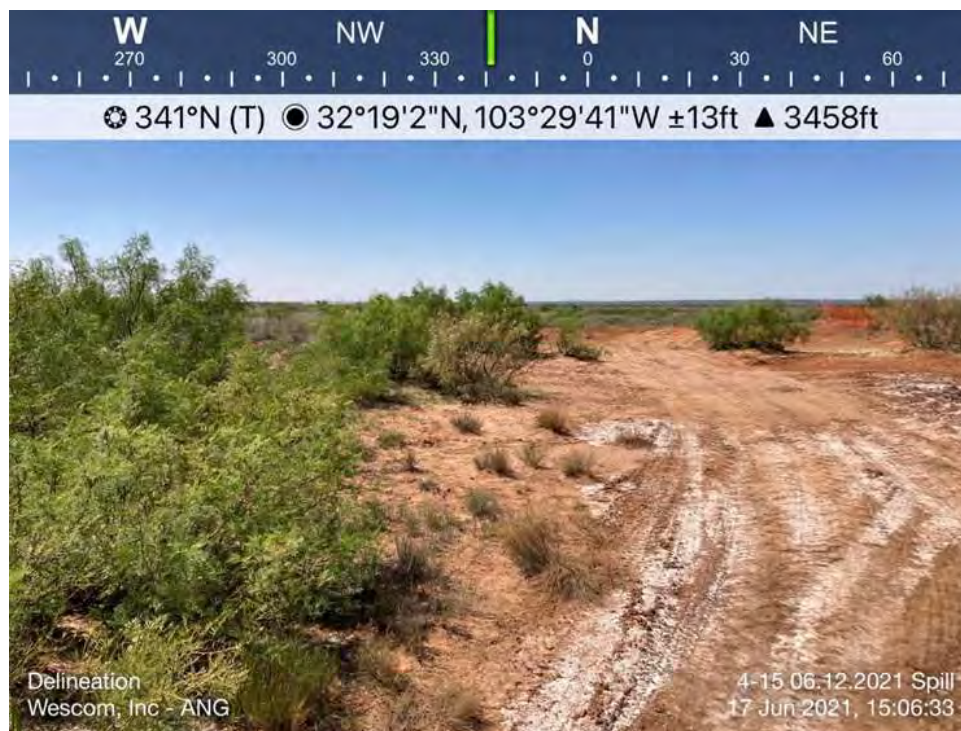
South Side of Spill Area



North Bell Lake 4-15 SWD  
Incident ID: NAPP2116429491



South Side of Spill Area



West Side of Spill Area



North Bell Lake 4-15 SWD  
Incident ID: NAPP2116429491



Borehole Drilling BH01



BH01 Core Samples



North Bell Lake 4-15 SWD  
Incident ID: NAPP2116429491



Scrape Area North Side of Tanks



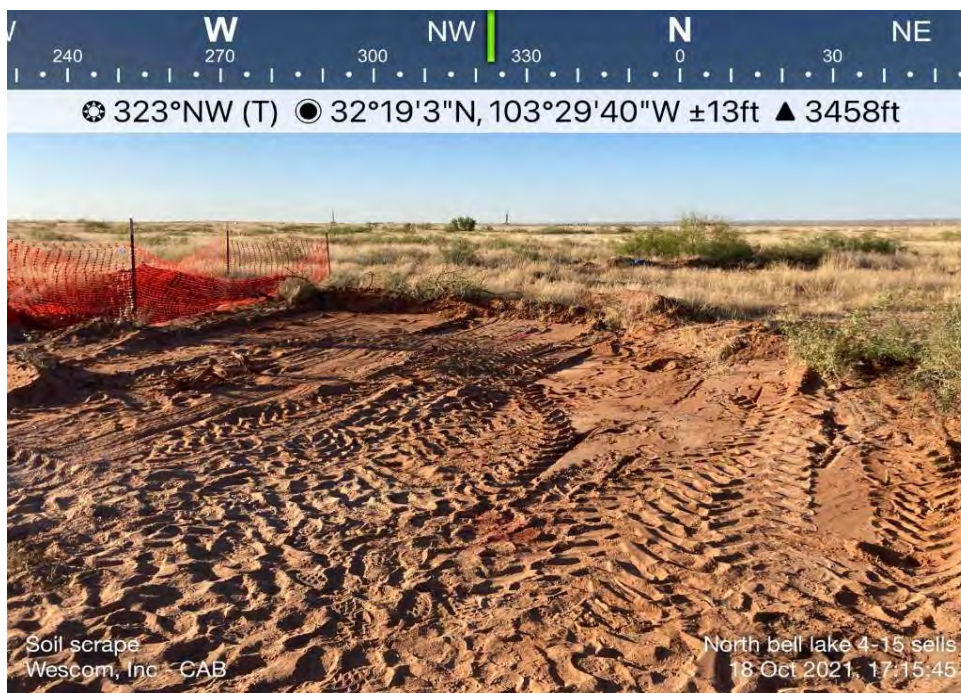
Scrape Area North Side of Tanks



North Bell Lake 4-15 SWD  
Incident ID: NAPP2116429491



Scrape Area Northwest Corner



Scrape Area Northwest Corner



North Bell Lake 4-15 SWD  
Incident ID: NAPP2116429491



Scrape Area West Side of Pad on Road Entrance



Scrape Area West Side of Pad



North Bell Lake 4-15 SWD  
Incident ID: NAPP2116429491



Scrape Area West Side of Pad



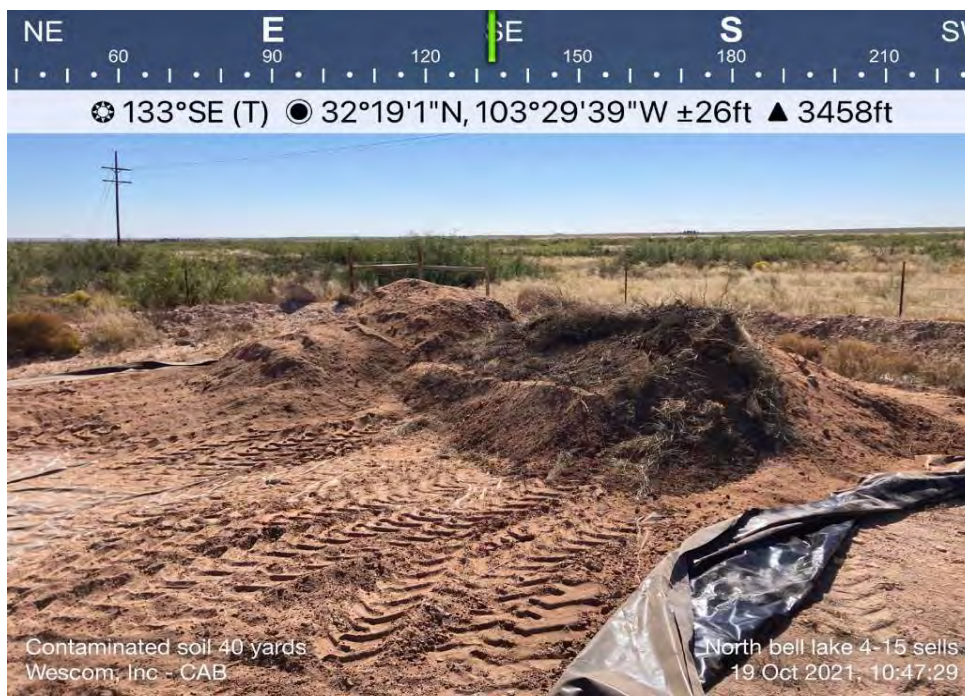
Scrape Area West Side of Pad on Road



North Bell Lake 4-15 SWD  
Incident ID: NAPP2116429491



Scrape Area West Side of Pad in Bushes



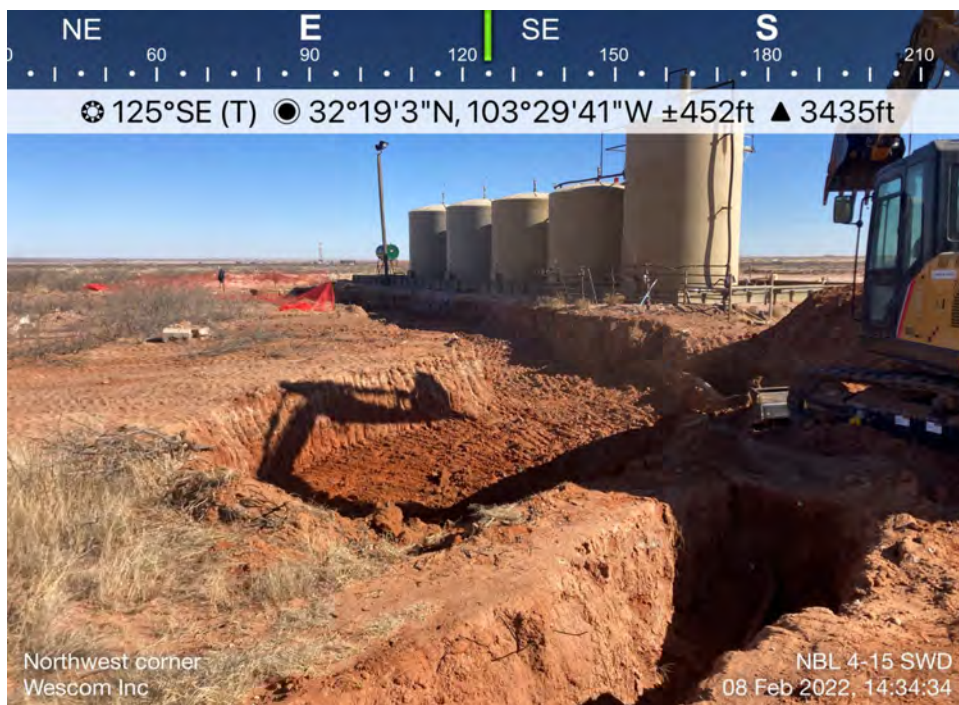
Contaminated Soil



North Bell Lake 4-15 SWD  
Incident ID: NAPP2116429491



North Side Excavation



Northwest Corner of Excavation

North Bell Lake 4-15 SWD  
Incident ID: NAPP2116429491



Northwest Corner of Excavation



Completed Excavation

# ATTACHMENT C

## Closure Criteria Supporting Documents



**Energizing America**

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**NBL Unit 4 #15 SWD** | Incident ID: nAPP2116429491



# North Bell Lake Unit 4 #15 SWD

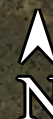
Distance to nearest Depth to Water point = 0.68 miles

## Legend

-  CP-1886-POD1 - DTW = >110 ft
-  Distance = 0.68 miles
-  North Bell Lake Unit 4 #15 SWD

CP-1886-POD1 - DTW = >110 ft

North Bell Lake Unit 4 #15 SWD







## NBL Unit 4 #15 SWD - Riverine 0.73 miles



March 18, 2022

**Wetlands**

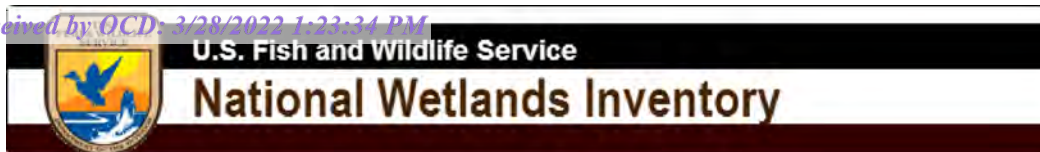
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.





## NBL Unit 4 #15 SWD - Wetland 0.85 miles



March 18, 2022

**Wetlands**

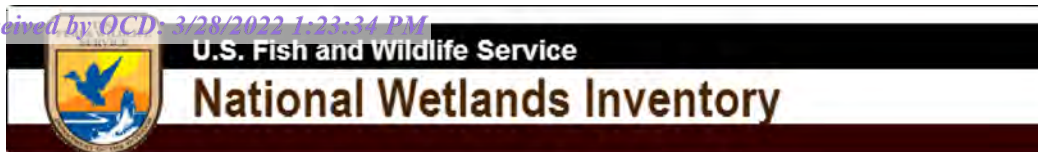
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.





## NBL Unit 4 #15 SWD - FW Pond 1.9 miles



March 18, 2022

**Wetlands**

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- Riverine




This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

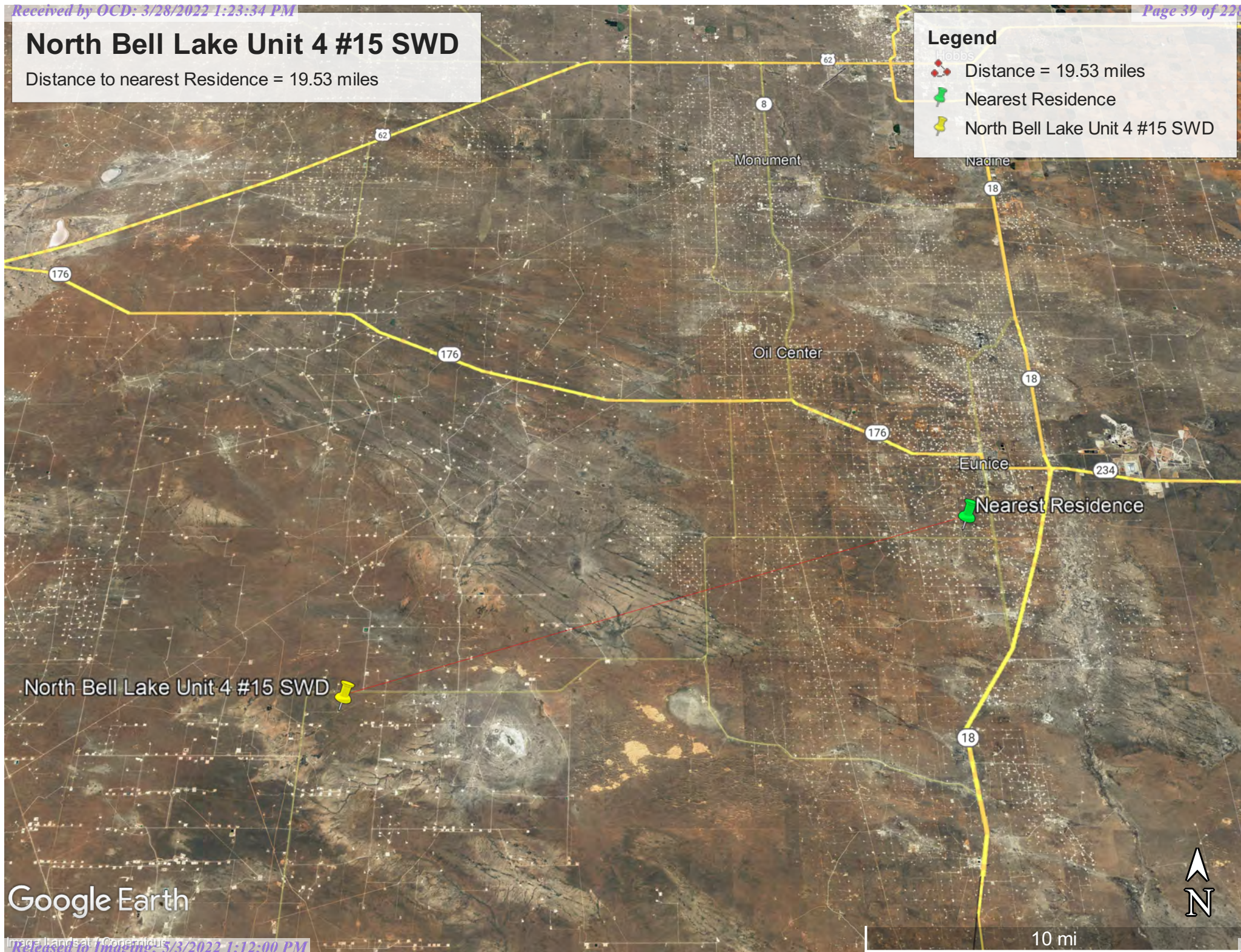


# North Bell Lake Unit 4 #15 SWD

Distance to nearest Residence = 19.53 miles

## Legend

-  Distance = 19.53 miles
-  Nearest Residence
-  North Bell Lake Unit 4 #15 SWD



North Bell Lake Unit 4 #15 SWD

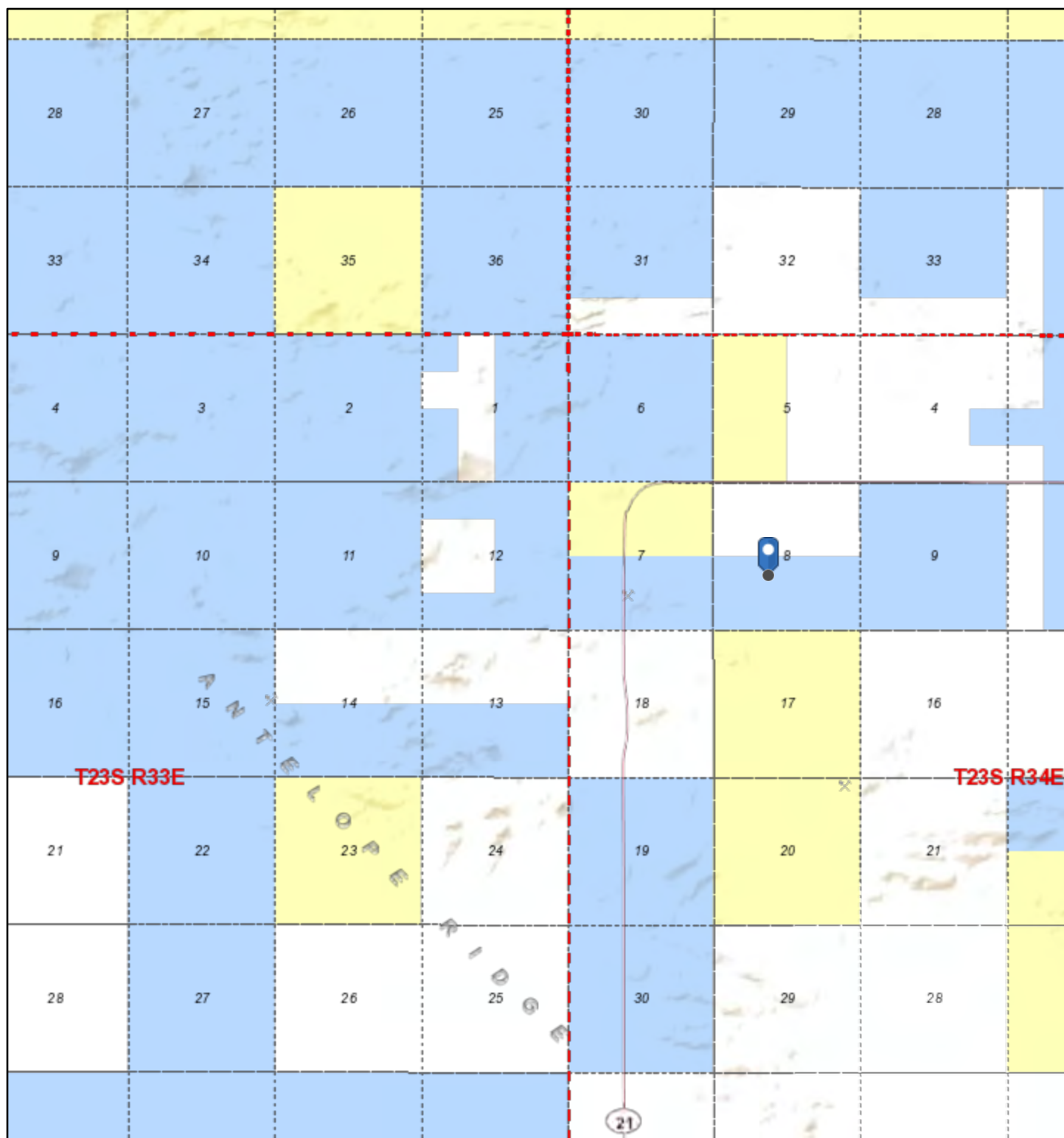
Nearest Residence

Google Earth

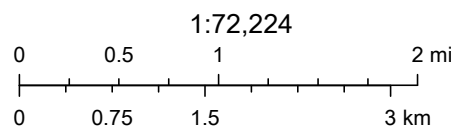
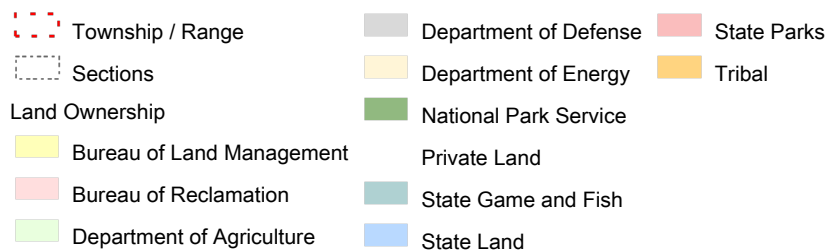
10 mi



## Active Mines Near NBL Unit 4 #15 SWD



3/18/2022, 2:49:10 PM



U.S. Bureau of Land Management - New Mexico State Office, Sources:  
Esri, USGS, NOAA, Sources: Esri, Garmin, USGS, NPS

# ATTACHMENT D

## Karst Map



**Energizing America**

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**NBL Unit 4 #15 SWD** | Incident ID: nAPP2116429491

# North Bell Lake Unit 4 #15 SWD

Karst Potential = Low

## Legend

- 01 Low
- 02 Medium
- 03 High
- North Bell Lake Unit 4 #15 SWD

North Bell Lake Unit 4 #15 SWD





# ATTACHMENT E

## Envirotech Inc. Laboratory Analysis Reports



Energizing America

wescominc.com | info@wescominc.com | 218-724-1322

NBL Unit 4 #15 SWD | Incident ID: nAPP2116429491

Report to:  
Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Kaiser Francis Oil Company

Project Name: 4-15 SWD Line 06.12.2021 Spill

Work Order: E106046

Job Number: 21022-0001

Received: 6/21/2021

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
6/25/21

5796 U.S. Hwy 64  
Farmington, NM 87401

Phone: (505) 632-1881  
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.  
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.  
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.  
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.  
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 6/25/21

Ashley Giovengo  
1224 Standpipe Rd  
Carlsbad, NM 88220



Project Name: 4-15 SWD Line 06.12.2021 Spill  
Workorder: E106046  
Date Received: 6/21/2021 9:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/21/2021 9:00:00AM, under the Project Name: 4-15 SWD Line 06.12.2021 Spill.

The analytical test results summarized in this report with the Project Name: 4-15 SWD Line 06.12.2021 Spill apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

**Walter Hinchman**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
[labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**  
**Lynn Jarboe**  
Technical Representative/Client Services  
Office: 505-421-LABS(5227)  
Cell: 505-320-4759  
[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**West Texas Midland/Odessa Area**  
**Tom Brown**  
Technical Representative  
Cell: 832-444-7704  
[tbrown@envirotech-inc.com](mailto:tbrown@envirotech-inc.com)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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## Sample Summary

Kaiser Francis Oil Company	Project Name:	4-15 SWD Line 06.12.2021 Spill	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/25/21 09:58

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BG03-0'	E106046-01A	Soil	06/16/21	06/21/21	Glass Jar, 4 oz.
BG03-4'	E106046-02A	Soil	06/16/21	06/21/21	Glass Jar, 4 oz.
BG03-2'	E106046-03A	Soil	06/16/21	06/21/21	Glass Jar, 4 oz.
BG03-6'	E106046-04A	Soil	06/16/21	06/21/21	Glass Jar, 4 oz.
SS03-6-0'	E106046-05A	Soil	06/17/21	06/21/21	Glass Jar, 4 oz.
SS04-0'	E106046-06A	Soil	06/16/21	06/21/21	Glass Jar, 4 oz.
SS06-2-0'	E106046-07A	Soil	06/17/21	06/21/21	Glass Jar, 4 oz.
SS08-3-0'	E106046-08A	Soil	06/17/21	06/21/21	Glass Jar, 4 oz.
SS09-2-0'	E106046-09A	Soil	06/16/21	06/21/21	Glass Jar, 4 oz.
SS10-2-0'	E106046-10A	Soil	06/16/21	06/21/21	Glass Jar, 4 oz.
SS14-4-0'	E106046-11A	Soil	06/17/21	06/21/21	Glass Jar, 4 oz.
SS16-3-0'	E106046-12A	Soil	06/17/21	06/21/21	Glass Jar, 4 oz.
SS17-4-0'	E106046-13A	Soil	06/17/21	06/21/21	Glass Jar, 4 oz.
SS20-1-0'	E106046-14A	Soil	06/17/21	06/21/21	Glass Jar, 4 oz.
SS21-0'	E106046-15A	Soil	06/17/21	06/21/21	Glass Jar, 4 oz.
SS22-1-0'	E106046-16A	Soil	06/17/21	06/21/21	Glass Jar, 4 oz.
SS23-0'	E106046-17A	Soil	06/17/21	06/21/21	Glass Jar, 4 oz.
SS24-0'	E106046-18A	Soil	06/17/21	06/21/21	Glass Jar, 4 oz.
SS25-0'	E106046-19A	Soil	06/17/21	06/21/21	Glass Jar, 4 oz.
SS26-0'	E106046-20A	Soil	06/17/21	06/21/21	Glass Jar, 4 oz.
SS27-0'	E106046-21A	Soil	06/17/21	06/21/21	Glass Jar, 4 oz.
SS28-2-0'	E106046-22A	Soil	06/17/21	06/21/21	Glass Jar, 4 oz.
SS29-1-0'	E106046-23A	Soil	06/17/21	06/21/21	Glass Jar, 4 oz.
SS30-2-0'	E106046-24A	Soil	06/17/21	06/21/21	Glass Jar, 4 oz.
SS32-0'	E106046-25A	Soil	06/17/21	06/21/21	Glass Jar, 4 oz.
SS33-0'	E106046-26A	Soil	06/17/21	06/21/21	Glass Jar, 4 oz.
SS34-0'	E106046-27A	Soil	06/17/21	06/21/21	Glass Jar, 4 oz.
SS35-0'	E106046-28A	Soil	06/17/21	06/21/21	Glass Jar, 4 oz.





## Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: 4-15 SWD Line 06.12.2021 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	Reported: 6/25/2021 9:58:12AM
---	--	----------------------------------

BG03-0'

E106046-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2126002	
Benzene	ND	0.0250	1	06/21/21	06/22/21	
Ethylbenzene	ND	0.0250	1	06/21/21	06/22/21	
Toluene	ND	0.0250	1	06/21/21	06/22/21	
o-Xylene	ND	0.0250	1	06/21/21	06/22/21	
p,m-Xylene	ND	0.0500	1	06/21/21	06/22/21	
Total Xylenes	ND	0.0250	1	06/21/21	06/22/21	
Surrogate: 4-Bromochlorobenzene-PID	99.4 %	70-130		06/21/21	06/22/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2126002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/21	06/22/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.8 %	70-130		06/21/21	06/22/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2126003	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/21/21	06/21/21	
Oil Range Organics (C28-C36)	ND	50.0	1	06/21/21	06/21/21	
Surrogate: n-Nonane	105 %	50-200		06/21/21	06/21/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2126005	
Chloride	ND	20.0	1	06/21/21	06/21/21	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: 4-15 SWD Line 06.12.2021 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
6/25/2021 9:58:12AM

BG03-4'

E106046-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2126002
Benzene	ND	0.0250	1	06/21/21	06/22/21	
Ethylbenzene	ND	0.0250	1	06/21/21	06/22/21	
Toluene	ND	0.0250	1	06/21/21	06/22/21	
o-Xylene	ND	0.0250	1	06/21/21	06/22/21	
p,m-Xylene	ND	0.0500	1	06/21/21	06/22/21	
Total Xylenes	ND	0.0250	1	06/21/21	06/22/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.3 %	70-130		06/21/21	06/22/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2126002
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/21	06/22/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.6 %	70-130		06/21/21	06/22/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2126003
Diesel Range Organics (C10-C28)	ND	25.0	1	06/21/21	06/21/21	
Oil Range Organics (C28-C36)	ND	50.0	1	06/21/21	06/21/21	
<i>Surrogate: n-Nonane</i>						
	105 %	50-200		06/21/21	06/21/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2126005
Chloride	ND	20.0	1	06/21/21	06/21/21	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: 4-15 SWD Line 06.12.2021 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
6/25/2021 9:58:12AM

BG03-2'

E106046-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2126002
Benzene	ND	0.0250	1	06/21/21	06/22/21	
Ethylbenzene	ND	0.0250	1	06/21/21	06/22/21	
Toluene	ND	0.0250	1	06/21/21	06/22/21	
o-Xylene	ND	0.0250	1	06/21/21	06/22/21	
p,m-Xylene	ND	0.0500	1	06/21/21	06/22/21	
Total Xylenes	ND	0.0250	1	06/21/21	06/22/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.2 %	70-130		06/21/21	06/22/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2126002
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/21	06/22/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.2 %	70-130		06/21/21	06/22/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2126003
Diesel Range Organics (C10-C28)	ND	25.0	1	06/21/21	06/21/21	
Oil Range Organics (C28-C36)	ND	50.0	1	06/21/21	06/21/21	
<i>Surrogate: n-Nonane</i>						
	101 %	50-200		06/21/21	06/21/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2126005
Chloride	ND	20.0	1	06/21/21	06/21/21	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: 4-15 SWD Line 06.12.2021 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
6/25/2021 9:58:12AM

BG03-6'

E106046-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2126002
Benzene	ND	0.0250	1	06/21/21	06/22/21	
Ethylbenzene	ND	0.0250	1	06/21/21	06/22/21	
Toluene	ND	0.0250	1	06/21/21	06/22/21	
o-Xylene	ND	0.0250	1	06/21/21	06/22/21	
p,m-Xylene	ND	0.0500	1	06/21/21	06/22/21	
Total Xylenes	ND	0.0250	1	06/21/21	06/22/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.9 %	70-130		06/21/21	06/22/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2126002
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/21	06/22/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.9 %	70-130		06/21/21	06/22/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2126003
Diesel Range Organics (C10-C28)	ND	25.0	1	06/21/21	06/21/21	
Oil Range Organics (C28-C36)	ND	50.0	1	06/21/21	06/21/21	
<i>Surrogate: n-Nonane</i>						
	108 %	50-200		06/21/21	06/21/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2126005
Chloride	ND	20.0	1	06/21/21	06/21/21	





## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: 4-15 SWD Line 06.12.2021 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
6/25/2021 9:58:12AM

SS03-6-0'

E106046-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2126002
Benzene	ND	0.0250	1	06/21/21	06/22/21	
Ethylbenzene	ND	0.0250	1	06/21/21	06/22/21	
Toluene	ND	0.0250	1	06/21/21	06/22/21	
o-Xylene	ND	0.0250	1	06/21/21	06/22/21	
p,m-Xylene	ND	0.0500	1	06/21/21	06/22/21	
Total Xylenes	ND	0.0250	1	06/21/21	06/22/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.2 %	70-130		06/21/21	06/22/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2126002
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/21	06/22/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.2 %	70-130		06/21/21	06/22/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2126003
Diesel Range Organics (C10-C28)	ND	25.0	1	06/21/21	06/21/21	
Oil Range Organics (C28-C36)	ND	50.0	1	06/21/21	06/21/21	
<i>Surrogate: n-Nonane</i>						
	105 %	50-200		06/21/21	06/21/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2126005
Chloride	73.1	20.0	1	06/21/21	06/21/21	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: 4-15 SWD Line 06.12.2021 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
6/25/2021 9:58:12AM

SS04-0'

E106046-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2126002	
Benzene	ND	0.0250	1	06/21/21	06/22/21	
Ethylbenzene	ND	0.0250	1	06/21/21	06/22/21	
Toluene	ND	0.0250	1	06/21/21	06/22/21	
o-Xylene	ND	0.0250	1	06/21/21	06/22/21	
p,m-Xylene	ND	0.0500	1	06/21/21	06/22/21	
Total Xylenes	ND	0.0250	1	06/21/21	06/22/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	98.6 %	70-130		06/21/21	06/22/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2126002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/21	06/22/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	95.4 %	70-130		06/21/21	06/22/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2126003	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/21/21	06/21/21	
Oil Range Organics (C28-C36)	ND	50.0	1	06/21/21	06/21/21	
<i>Surrogate: n-Nonane</i>	108 %	50-200		06/21/21	06/21/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2126005	
Chloride	181	20.0	1	06/21/21	06/21/21	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: 4-15 SWD Line 06.12.2021 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
6/25/2021 9:58:12AM

SS06-2-0'

E106046-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2126002
Benzene	ND	0.0250	1	06/21/21	06/22/21	
Ethylbenzene	ND	0.0250	1	06/21/21	06/22/21	
Toluene	ND	0.0250	1	06/21/21	06/22/21	
o-Xylene	ND	0.0250	1	06/21/21	06/22/21	
p,m-Xylene	ND	0.0500	1	06/21/21	06/22/21	
Total Xylenes	ND	0.0250	1	06/21/21	06/22/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.4 %	70-130		06/21/21	06/22/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2126002
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/21	06/22/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.4 %	70-130		06/21/21	06/22/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2126003
Diesel Range Organics (C10-C28)	ND	25.0	1	06/21/21	06/21/21	
Oil Range Organics (C28-C36)	ND	50.0	1	06/21/21	06/21/21	
<i>Surrogate: n-Nonane</i>						
	107 %	50-200		06/21/21	06/21/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2126005
Chloride	127	40.0	2	06/21/21	06/21/21	





## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: 4-15 SWD Line 06.12.2021 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
6/25/2021 9:58:12AM

SS08-3-0'

E106046-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2126002
Benzene	ND	0.0250	1	06/21/21	06/22/21	
Ethylbenzene	ND	0.0250	1	06/21/21	06/22/21	
Toluene	ND	0.0250	1	06/21/21	06/22/21	
o-Xylene	ND	0.0250	1	06/21/21	06/22/21	
p,m-Xylene	ND	0.0500	1	06/21/21	06/22/21	
Total Xylenes	ND	0.0250	1	06/21/21	06/22/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.8 %	70-130		06/21/21	06/22/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2126002
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/21	06/22/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.3 %	70-130		06/21/21	06/22/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2126003
Diesel Range Organics (C10-C28)	ND	25.0	1	06/21/21	06/22/21	
Oil Range Organics (C28-C36)	ND	50.0	1	06/21/21	06/22/21	
<i>Surrogate: n-Nonane</i>						
	104 %	50-200		06/21/21	06/22/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2126005
Chloride	54.3	20.0	1	06/21/21	06/21/21	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: 4-15 SWD Line 06.12.2021 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
6/25/2021 9:58:12AM

SS09-2-0'

E106046-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2126002
Benzene	ND	0.0250	1	06/21/21	06/22/21	
Ethylbenzene	ND	0.0250	1	06/21/21	06/22/21	
Toluene	ND	0.0250	1	06/21/21	06/22/21	
o-Xylene	ND	0.0250	1	06/21/21	06/22/21	
p,m-Xylene	ND	0.0500	1	06/21/21	06/22/21	
Total Xylenes	ND	0.0250	1	06/21/21	06/22/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	06/21/21	06/22/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2126002
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/21	06/22/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.8 %	70-130	06/21/21	06/22/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2126003
Diesel Range Organics (C10-C28)	ND	25.0	1	06/21/21	06/22/21	
Oil Range Organics (C28-C36)	ND	50.0	1	06/21/21	06/22/21	
<i>Surrogate: n-Nonane</i>						
		105 %	50-200	06/21/21	06/22/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2126005
Chloride	ND	20.0	1	06/21/21	06/21/21	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: 4-15 SWD Line 06.12.2021 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
6/25/2021 9:58:12AM

SS10-2-0'

E106046-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2126002
Benzene	ND	0.0250	1	06/21/21	06/22/21	
Ethylbenzene	ND	0.0250	1	06/21/21	06/22/21	
Toluene	ND	0.0250	1	06/21/21	06/22/21	
o-Xylene	ND	0.0250	1	06/21/21	06/22/21	
p,m-Xylene	ND	0.0500	1	06/21/21	06/22/21	
Total Xylenes	ND	0.0250	1	06/21/21	06/22/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.7 %	70-130		06/21/21	06/22/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2126002
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/21	06/22/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.2 %	70-130		06/21/21	06/22/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2126003
Diesel Range Organics (C10-C28)	ND	25.0	1	06/21/21	06/22/21	
Oil Range Organics (C28-C36)	ND	50.0	1	06/21/21	06/22/21	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		06/21/21	06/22/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2126005
Chloride	ND	20.0	1	06/21/21	06/21/21	





## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: 4-15 SWD Line 06.12.2021 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
6/25/2021 9:58:12AM

SS14-4-0'

E106046-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2126002
Benzene	ND	0.0250	1	06/21/21	06/22/21	
Ethylbenzene	ND	0.0250	1	06/21/21	06/22/21	
Toluene	ND	0.0250	1	06/21/21	06/22/21	
o-Xylene	ND	0.0250	1	06/21/21	06/22/21	
p,m-Xylene	ND	0.0500	1	06/21/21	06/22/21	
Total Xylenes	ND	0.0250	1	06/21/21	06/22/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.9 %	70-130		06/21/21	06/22/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2126002
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/21	06/22/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.0 %	70-130		06/21/21	06/22/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2126003
Diesel Range Organics (C10-C28)	ND	25.0	1	06/21/21	06/22/21	
Oil Range Organics (C28-C36)	ND	50.0	1	06/21/21	06/22/21	
<i>Surrogate: n-Nonane</i>						
	108 %	50-200		06/21/21	06/22/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2126005
Chloride	238	20.0	1	06/21/21	06/21/21	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: 4-15 SWD Line 06.12.2021 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
6/25/2021 9:58:12AM

SS16-3-0'

E106046-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2126002
Benzene	ND	0.0250	1	06/21/21	06/22/21	
Ethylbenzene	ND	0.0250	1	06/21/21	06/22/21	
Toluene	ND	0.0250	1	06/21/21	06/22/21	
o-Xylene	ND	0.0250	1	06/21/21	06/22/21	
p,m-Xylene	ND	0.0500	1	06/21/21	06/22/21	
Total Xylenes	ND	0.0250	1	06/21/21	06/22/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.9 %	70-130		06/21/21	06/22/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2126002
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/21	06/22/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.9 %	70-130		06/21/21	06/22/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2126003
Diesel Range Organics (C10-C28)	ND	25.0	1	06/21/21	06/22/21	
Oil Range Organics (C28-C36)	ND	50.0	1	06/21/21	06/22/21	
<i>Surrogate: n-Nonane</i>						
	106 %	50-200		06/21/21	06/22/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2126005
Chloride	ND	20.0	1	06/21/21	06/21/21	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: 4-15 SWD Line 06.12.2021 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
6/25/2021 9:58:12AM

SS17-4-0'

E106046-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2126002
Benzene	ND	0.0250	1	06/21/21	06/22/21	
Ethylbenzene	ND	0.0250	1	06/21/21	06/22/21	
Toluene	ND	0.0250	1	06/21/21	06/22/21	
o-Xylene	ND	0.0250	1	06/21/21	06/22/21	
p,m-Xylene	ND	0.0500	1	06/21/21	06/22/21	
Total Xylenes	ND	0.0250	1	06/21/21	06/22/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.3 %	70-130		06/21/21	06/22/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2126002
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/21	06/22/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.5 %	70-130		06/21/21	06/22/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2126003
Diesel Range Organics (C10-C28)	ND	25.0	1	06/21/21	06/22/21	
Oil Range Organics (C28-C36)	ND	50.0	1	06/21/21	06/22/21	
<i>Surrogate: n-Nonane</i>						
	110 %	50-200		06/21/21	06/22/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2126005
Chloride	177	20.0	1	06/21/21	06/21/21	





## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: 4-15 SWD Line 06.12.2021 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
6/25/2021 9:58:12AM

SS20-1-0'

E106046-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2126002
Benzene	ND	0.0250	1	06/21/21	06/22/21	
Ethylbenzene	ND	0.0250	1	06/21/21	06/22/21	
Toluene	ND	0.0250	1	06/21/21	06/22/21	
o-Xylene	ND	0.0250	1	06/21/21	06/22/21	
p,m-Xylene	ND	0.0500	1	06/21/21	06/22/21	
Total Xylenes	ND	0.0250	1	06/21/21	06/22/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.2 %	70-130		06/21/21	06/22/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2126002
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/21	06/22/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.2 %	70-130		06/21/21	06/22/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2126003
Diesel Range Organics (C10-C28)	ND	25.0	1	06/21/21	06/22/21	
Oil Range Organics (C28-C36)	ND	50.0	1	06/21/21	06/22/21	
<i>Surrogate: n-Nonane</i>						
	111 %	50-200		06/21/21	06/22/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2126005
Chloride	ND	20.0	1	06/21/21	06/22/21	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: 4-15 SWD Line 06.12.2021 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
6/25/2021 9:58:12AM

SS21-0'

E106046-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2126002
Benzene	ND	0.0250	1	06/21/21	06/22/21	
Ethylbenzene	ND	0.0250	1	06/21/21	06/22/21	
Toluene	ND	0.0250	1	06/21/21	06/22/21	
o-Xylene	ND	0.0250	1	06/21/21	06/22/21	
p,m-Xylene	ND	0.0500	1	06/21/21	06/22/21	
Total Xylenes	ND	0.0250	1	06/21/21	06/22/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.5 %	70-130		06/21/21	06/22/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2126002
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/21	06/22/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.4 %	70-130		06/21/21	06/22/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2126003
Diesel Range Organics (C10-C28)	ND	25.0	1	06/21/21	06/22/21	
Oil Range Organics (C28-C36)	ND	50.0	1	06/21/21	06/22/21	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		06/21/21	06/22/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2126005
Chloride	ND	20.0	1	06/21/21	06/22/21	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: 4-15 SWD Line 06.12.2021 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
6/25/2021 9:58:12AM

SS22-1-0'

E106046-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2126002
Benzene	ND	0.0250	1	06/21/21	06/22/21	
Ethylbenzene	ND	0.0250	1	06/21/21	06/22/21	
Toluene	ND	0.0250	1	06/21/21	06/22/21	
o-Xylene	ND	0.0250	1	06/21/21	06/22/21	
p,m-Xylene	ND	0.0500	1	06/21/21	06/22/21	
Total Xylenes	ND	0.0250	1	06/21/21	06/22/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.7 %	70-130		06/21/21	06/22/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2126002
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/21	06/22/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.8 %	70-130		06/21/21	06/22/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2126003
Diesel Range Organics (C10-C28)	ND	25.0	1	06/21/21	06/22/21	
Oil Range Organics (C28-C36)	ND	50.0	1	06/21/21	06/22/21	
<i>Surrogate: n-Nonane</i>						
	111 %	50-200		06/21/21	06/22/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2126005
Chloride	ND	20.0	1	06/21/21	06/22/21	





## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: 4-15 SWD Line 06.12.2021 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
6/25/2021 9:58:12AM

SS23-0'

E106046-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2126002
Benzene	ND	0.0250	1	06/21/21	06/23/21	
Ethylbenzene	ND	0.0250	1	06/21/21	06/23/21	
Toluene	ND	0.0250	1	06/21/21	06/23/21	
o-Xylene	ND	0.0250	1	06/21/21	06/23/21	
p,m-Xylene	ND	0.0500	1	06/21/21	06/23/21	
Total Xylenes	ND	0.0250	1	06/21/21	06/23/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	06/21/21	06/23/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2126002
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/21	06/23/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.9 %	70-130	06/21/21	06/23/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2126003
Diesel Range Organics (C10-C28)	ND	25.0	1	06/21/21	06/22/21	
Oil Range Organics (C28-C36)	ND	50.0	1	06/21/21	06/22/21	
<i>Surrogate: n-Nonane</i>						
		107 %	50-200	06/21/21	06/22/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2126005
Chloride	ND	20.0	1	06/21/21	06/22/21	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: 4-15 SWD Line 06.12.2021 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
6/25/2021 9:58:12AM

SS24-0'

E106046-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2126002
Benzene	ND	0.0250	1	06/21/21	06/23/21	
Ethylbenzene	ND	0.0250	1	06/21/21	06/23/21	
Toluene	ND	0.0250	1	06/21/21	06/23/21	
o-Xylene	ND	0.0250	1	06/21/21	06/23/21	
p,m-Xylene	ND	0.0500	1	06/21/21	06/23/21	
Total Xylenes	ND	0.0250	1	06/21/21	06/23/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.9 %	70-130		06/21/21	06/23/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2126002
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/21	06/23/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.6 %	70-130		06/21/21	06/23/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2126003
Diesel Range Organics (C10-C28)	ND	25.0	1	06/21/21	06/22/21	
Oil Range Organics (C28-C36)	ND	50.0	1	06/21/21	06/22/21	
<i>Surrogate: n-Nonane</i>						
	110 %	50-200		06/21/21	06/22/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2126005
Chloride	ND	20.0	1	06/21/21	06/22/21	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: 4-15 SWD Line 06.12.2021 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
6/25/2021 9:58:12AM

SS25-0'

E106046-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2126002
Benzene	ND	0.0250	1	06/21/21	06/23/21	
Ethylbenzene	ND	0.0250	1	06/21/21	06/23/21	
Toluene	ND	0.0250	1	06/21/21	06/23/21	
o-Xylene	ND	0.0250	1	06/21/21	06/23/21	
p,m-Xylene	ND	0.0500	1	06/21/21	06/23/21	
Total Xylenes	ND	0.0250	1	06/21/21	06/23/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	06/21/21	06/23/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2126002
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/21	06/23/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.3 %	70-130	06/21/21	06/23/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2126003
Diesel Range Organics (C10-C28)	ND	25.0	1	06/21/21	06/22/21	
Oil Range Organics (C28-C36)	ND	50.0	1	06/21/21	06/22/21	
<i>Surrogate: n-Nonane</i>						
		112 %	50-200	06/21/21	06/22/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2126005
Chloride	136	20.0	1	06/21/21	06/22/21	





## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: 4-15 SWD Line 06.12.2021 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
6/25/2021 9:58:12AM

SS26-0'

E106046-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2126002
Benzene	ND	0.0250	1	06/21/21	06/23/21	
Ethylbenzene	ND	0.0250	1	06/21/21	06/23/21	
Toluene	ND	0.0250	1	06/21/21	06/23/21	
o-Xylene	ND	0.0250	1	06/21/21	06/23/21	
p,m-Xylene	ND	0.0500	1	06/21/21	06/23/21	
Total Xylenes	ND	0.0250	1	06/21/21	06/23/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	06/21/21	06/23/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2126002
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/21	06/23/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.2 %	70-130	06/21/21	06/23/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2126003
Diesel Range Organics (C10-C28)	ND	25.0	1	06/21/21	06/22/21	
Oil Range Organics (C28-C36)	ND	50.0	1	06/21/21	06/22/21	
<i>Surrogate: n-Nonane</i>						
		115 %	50-200	06/21/21	06/22/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2126005
Chloride	ND	20.0	1	06/21/21	06/22/21	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: 4-15 SWD Line 06.12.2021 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
6/25/2021 9:58:12AM

SS27-0'

E106046-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2126004	
Benzene	ND	0.0250	1	06/21/21	06/23/21	
Ethylbenzene	ND	0.0250	1	06/21/21	06/23/21	
Toluene	ND	0.0250	1	06/21/21	06/23/21	
o-Xylene	ND	0.0250	1	06/21/21	06/23/21	
p,m-Xylene	ND	0.0500	1	06/21/21	06/23/21	
Total Xylenes	ND	0.0250	1	06/21/21	06/23/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	06/21/21	06/23/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2126004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/21	06/23/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.2 %	70-130	06/21/21	06/23/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2126008	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/21/21	06/23/21	
Oil Range Organics (C28-C36)	ND	50.0	1	06/21/21	06/23/21	
<i>Surrogate: n-Nonane</i>		114 %	50-200	06/21/21	06/23/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2126006	
Chloride	ND	20.0	1	06/21/21	06/22/21	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: 4-15 SWD Line 06.12.2021 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
6/25/2021 9:58:12AM

SS28-2-0'

E106046-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2126004
Benzene	ND	0.0250	1	06/21/21	06/23/21	
Ethylbenzene	ND	0.0250	1	06/21/21	06/23/21	
Toluene	ND	0.0250	1	06/21/21	06/23/21	
o-Xylene	ND	0.0250	1	06/21/21	06/23/21	
p,m-Xylene	ND	0.0500	1	06/21/21	06/23/21	
Total Xylenes	ND	0.0250	1	06/21/21	06/23/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	06/21/21	06/23/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2126004
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/21	06/23/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.2 %	70-130	06/21/21	06/23/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2126008
Diesel Range Organics (C10-C28)	ND	25.0	1	06/21/21	06/23/21	
Oil Range Organics (C28-C36)	ND	50.0	1	06/21/21	06/23/21	
<i>Surrogate: n-Nonane</i>						
		115 %	50-200	06/21/21	06/23/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2126006
Chloride	ND	20.0	1	06/21/21	06/22/21	





## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: 4-15 SWD Line 06.12.2021 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
6/25/2021 9:58:12AM

SS29-1-0'

E106046-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2126004
Benzene	ND	0.0250	1	06/21/21	06/23/21	
Ethylbenzene	ND	0.0250	1	06/21/21	06/23/21	
Toluene	ND	0.0250	1	06/21/21	06/23/21	
o-Xylene	ND	0.0250	1	06/21/21	06/23/21	
p,m-Xylene	ND	0.0500	1	06/21/21	06/23/21	
Total Xylenes	ND	0.0250	1	06/21/21	06/23/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	06/21/21	06/23/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2126004
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/21	06/23/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.1 %	70-130	06/21/21	06/23/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2126008
Diesel Range Organics (C10-C28)	ND	25.0	1	06/21/21	06/23/21	
Oil Range Organics (C28-C36)	ND	50.0	1	06/21/21	06/23/21	
<i>Surrogate: n-Nonane</i>						
		114 %	50-200	06/21/21	06/23/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2126006
Chloride	ND	20.0	1	06/21/21	06/22/21	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: 4-15 SWD Line 06.12.2021 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
6/25/2021 9:58:12AM

SS30-2-0'

E106046-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2126004
Benzene	ND	0.0250	1	06/21/21	06/23/21	
Ethylbenzene	ND	0.0250	1	06/21/21	06/23/21	
Toluene	ND	0.0250	1	06/21/21	06/23/21	
o-Xylene	ND	0.0250	1	06/21/21	06/23/21	
p,m-Xylene	ND	0.0500	1	06/21/21	06/23/21	
Total Xylenes	ND	0.0250	1	06/21/21	06/23/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	06/21/21	06/23/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2126004
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/21	06/23/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.3 %	70-130	06/21/21	06/23/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2126008
Diesel Range Organics (C10-C28)	ND	25.0	1	06/21/21	06/23/21	
Oil Range Organics (C28-C36)	ND	50.0	1	06/21/21	06/23/21	
<i>Surrogate: n-Nonane</i>						
		117 %	50-200	06/21/21	06/23/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2126006
Chloride	ND	20.0	1	06/21/21	06/22/21	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: 4-15 SWD Line 06.12.2021 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
6/25/2021 9:58:12AM

SS32-0'

E106046-25

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2126004
Benzene	ND	0.0250	1	06/21/21	06/23/21	
Ethylbenzene	ND	0.0250	1	06/21/21	06/23/21	
Toluene	ND	0.0250	1	06/21/21	06/23/21	
o-Xylene	ND	0.0250	1	06/21/21	06/23/21	
p,m-Xylene	ND	0.0500	1	06/21/21	06/23/21	
Total Xylenes	ND	0.0250	1	06/21/21	06/23/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	06/21/21	06/23/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2126004
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/21	06/23/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.3 %	70-130	06/21/21	06/23/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2126008
Diesel Range Organics (C10-C28)	ND	25.0	1	06/21/21	06/23/21	
Oil Range Organics (C28-C36)	ND	50.0	1	06/21/21	06/23/21	
<i>Surrogate: n-Nonane</i>						
		115 %	50-200	06/21/21	06/23/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2126006
Chloride	ND	20.0	1	06/21/21	06/23/21	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: 4-15 SWD Line 06.12.2021 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
6/25/2021 9:58:12AM

SS33-0'

E106046-26

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2126004	
Benzene	ND	0.0250	1	06/21/21	06/23/21	
Ethylbenzene	ND	0.0250	1	06/21/21	06/23/21	
Toluene	ND	0.0250	1	06/21/21	06/23/21	
o-Xylene	ND	0.0250	1	06/21/21	06/23/21	
p,m-Xylene	ND	0.0500	1	06/21/21	06/23/21	
Total Xylenes	ND	0.0250	1	06/21/21	06/23/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	06/21/21	06/23/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2126004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/21	06/23/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.9 %	70-130	06/21/21	06/23/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2126008	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/21/21	06/23/21	
Oil Range Organics (C28-C36)	ND	50.0	1	06/21/21	06/23/21	
<i>Surrogate: n-Nonane</i>		115 %	50-200	06/21/21	06/23/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2126006	
Chloride	ND	20.0	1	06/21/21	06/23/21	





## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: 4-15 SWD Line 06.12.2021 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
6/25/2021 9:58:12AM

SS34-0'

E106046-27

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2126004
Benzene	ND	0.0250	1	06/21/21	06/23/21	
Ethylbenzene	ND	0.0250	1	06/21/21	06/23/21	
Toluene	ND	0.0250	1	06/21/21	06/23/21	
o-Xylene	ND	0.0250	1	06/21/21	06/23/21	
p,m-Xylene	ND	0.0500	1	06/21/21	06/23/21	
Total Xylenes	ND	0.0250	1	06/21/21	06/23/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	06/21/21	06/23/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2126004
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/21	06/23/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.6 %	70-130	06/21/21	06/23/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2126008
Diesel Range Organics (C10-C28)	ND	25.0	1	06/21/21	06/23/21	
Oil Range Organics (C28-C36)	ND	50.0	1	06/21/21	06/23/21	
<i>Surrogate: n-Nonane</i>						
		118 %	50-200	06/21/21	06/23/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2126006
Chloride	32.5	20.0	1	06/21/21	06/23/21	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: 4-15 SWD Line 06.12.2021 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
6/25/2021 9:58:12AM

SS35-0'

E106046-28

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2126004
Benzene	ND	0.0250	1	06/21/21	06/23/21	
Ethylbenzene	ND	0.0250	1	06/21/21	06/23/21	
Toluene	ND	0.0250	1	06/21/21	06/23/21	
o-Xylene	ND	0.0250	1	06/21/21	06/23/21	
p,m-Xylene	ND	0.0500	1	06/21/21	06/23/21	
Total Xylenes	ND	0.0250	1	06/21/21	06/23/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.4 %	70-130		06/21/21	06/23/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2126004
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/21	06/23/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.6 %	70-130		06/21/21	06/23/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2126008
Diesel Range Organics (C10-C28)	ND	25.0	1	06/21/21	06/23/21	
Oil Range Organics (C28-C36)	ND	50.0	1	06/21/21	06/23/21	
<i>Surrogate: n-Nonane</i>						
	118 %	50-200		06/21/21	06/23/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2126006
Chloride	39.3	20.0	1	06/21/21	06/23/21	



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	4-15 SWD Line 06.12.2021 Spill	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/25/2021 9:58:12AM

## Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2126002-BLK1)

Prepared: 06/21/21 Analyzed: 06/22/21

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.94		8.00		99.2	70-130			

## LCS (2126002-BS1)

Prepared: 06/21/21 Analyzed: 06/22/21

Benzene	4.34	0.0250	5.00		86.7	70-130			
Ethylbenzene	4.71	0.0250	5.00		94.2	70-130			
Toluene	4.77	0.0250	5.00		95.4	70-130			
o-Xylene	4.64	0.0250	5.00		92.9	70-130			
p,m-Xylene	9.57	0.0500	10.0		95.7	70-130			
Total Xylenes	14.2	0.0250	15.0		94.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.92		8.00		99.0	70-130			

## Matrix Spike (2126002-MS1)

Source: E106046-01 Prepared: 06/21/21 Analyzed: 06/22/21

Benzene	4.67	0.0250	5.00	ND	93.3	54-133			
Ethylbenzene	5.05	0.0250	5.00	ND	101	61-133			
Toluene	5.12	0.0250	5.00	ND	102	61-130			
o-Xylene	4.97	0.0250	5.00	ND	99.4	63-131			
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131			
Total Xylenes	15.2	0.0250	15.0	ND	101	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.02		8.00		100	70-130			

## Matrix Spike Dup (2126002-MSD1)

Source: E106046-01 Prepared: 06/21/21 Analyzed: 06/22/21

Benzene	4.58	0.0250	5.00	ND	91.5	54-133	1.96	20	
Ethylbenzene	4.95	0.0250	5.00	ND	99.1	61-133	2.00	20	
Toluene	5.02	0.0250	5.00	ND	100	61-130	2.13	20	
o-Xylene	4.88	0.0250	5.00	ND	97.6	63-131	1.86	20	
p,m-Xylene	10.0	0.0500	10.0	ND	100	63-131	1.95	20	
Total Xylenes	14.9	0.0250	15.0	ND	99.4	63-131	1.92	20	
Surrogate: 4-Bromochlorobenzene-PID	7.91		8.00		98.9	70-130			



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	4-15 SWD Line 06.12.2021 Spill	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/25/2021 9:58:12AM

## Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2126004-BLK1)

Prepared: 06/21/21 Analyzed: 06/23/21

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.10		8.00		101	70-130			

## LCS (2126004-BS1)

Prepared: 06/21/21 Analyzed: 06/23/21

Benzene	4.27	0.0250	5.00		85.5	70-130			
Ethylbenzene	4.62	0.0250	5.00		92.4	70-130			
Toluene	4.68	0.0250	5.00		93.6	70-130			
o-Xylene	4.58	0.0250	5.00		91.7	70-130			
p,m-Xylene	9.35	0.0500	10.0		93.5	70-130			
Total Xylenes	13.9	0.0250	15.0		92.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.06		8.00		101	70-130			

## Matrix Spike (2126004-MS1)

Source: E106046-21 Prepared: 06/21/21 Analyzed: 06/23/21

Benzene	4.36	0.0250	5.00	ND	87.2	54-133			
Ethylbenzene	4.72	0.0250	5.00	ND	94.4	61-133			
Toluene	4.78	0.0250	5.00	ND	95.7	61-130			
o-Xylene	4.68	0.0250	5.00	ND	93.6	63-131			
p,m-Xylene	9.55	0.0500	10.0	ND	95.5	63-131			
Total Xylenes	14.2	0.0250	15.0	ND	94.9	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.10		8.00		101	70-130			

## Matrix Spike Dup (2126004-MSD1)

Source: E106046-21 Prepared: 06/21/21 Analyzed: 06/23/21

Benzene	4.68	0.0250	5.00	ND	93.5	54-133	6.98	20	
Ethylbenzene	5.07	0.0250	5.00	ND	101	61-133	7.16	20	
Toluene	5.13	0.0250	5.00	ND	103	61-130	7.01	20	
o-Xylene	5.03	0.0250	5.00	ND	101	63-131	7.22	20	
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131	7.04	20	
Total Xylenes	15.3	0.0250	15.0	ND	102	63-131	7.10	20	
Surrogate: 4-Bromochlorobenzene-PID	8.20		8.00		102	70-130			





## QC Summary Data

Kaiser Francis Oil Company	Project Name:	4-15 SWD Line 06.12.2021 Spill	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/25/2021 9:58:12AM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2126002-BLK1)

Prepared: 06/21/21 Analyzed: 06/22/21

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.68		8.00		96.0	70-130			

## LCS (2126002-BS2)

Prepared: 06/21/21 Analyzed: 06/22/21

Gasoline Range Organics (C6-C10)	48.9	20.0	50.0		97.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.69		8.00		96.1	70-130			

## Matrix Spike (2126002-MS2)

Source: E106046-01 Prepared: 06/21/21 Analyzed: 06/22/21

Gasoline Range Organics (C6-C10)	49.5	20.0	50.0	ND	99.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.73		8.00		96.6	70-130			

## Matrix Spike Dup (2126002-MSD2)

Source: E106046-01 Prepared: 06/21/21 Analyzed: 06/22/21

Gasoline Range Organics (C6-C10)	50.0	20.0	50.0	ND	100	70-130	0.979	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.75		8.00		96.8	70-130			



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	4-15 SWD Line 06.12.2021 Spill	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/25/2021 9:58:12AM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2126004-BLK1)

Prepared: 06/21/21 Analyzed: 06/23/21

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.66		8.00		95.7	70-130			

## LCS (2126004-BS2)

Prepared: 06/21/21 Analyzed: 06/23/21

Gasoline Range Organics (C6-C10)	44.8	20.0	50.0		89.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.53		8.00		94.1	70-130			

## Matrix Spike (2126004-MS2)

Source: E106046-21 Prepared: 06/21/21 Analyzed: 06/23/21

Gasoline Range Organics (C6-C10)	48.2	20.0	50.0	ND	96.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.55		8.00		94.4	70-130			

## Matrix Spike Dup (2126004-MSD2)

Source: E106046-21 Prepared: 06/21/21 Analyzed: 06/23/21

Gasoline Range Organics (C6-C10)	46.2	20.0	50.0	ND	92.4	70-130	4.19	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.51		8.00		93.9	70-130			



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	4-15 SWD Line 06.12.2021 Spill	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/25/2021 9:58:12AM

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2126003-BLK1)

Prepared: 06/21/21 Analyzed: 06/21/21

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	56.4		50.0		113	50-200			

## LCS (2126003-BS1)

Prepared: 06/21/21 Analyzed: 06/21/21

Diesel Range Organics (C10-C28)	425	25.0	500		85.0	38-132			
Surrogate: n-Nonane	51.8		50.0		104	50-200			

## Matrix Spike (2126003-MS1)

Source: E106046-04 Prepared: 06/21/21 Analyzed: 06/21/21

Diesel Range Organics (C10-C28)	432	25.0	500	ND	86.4	38-132			
Surrogate: n-Nonane	52.8		50.0		106	50-200			

## Matrix Spike Dup (2126003-MSD1)

Source: E106046-04 Prepared: 06/21/21 Analyzed: 06/21/21

Diesel Range Organics (C10-C28)	428	25.0	500	ND	85.6	38-132	0.968	20	
Surrogate: n-Nonane	51.7		50.0		103	50-200			



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	4-15 SWD Line 06.12.2021 Spill	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/25/2021 9:58:12AM

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2126008-BLK1)

Prepared: 06/21/21 Analyzed: 06/23/21

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	54.2		50.0		108	50-200			

## LCS (2126008-BS1)

Prepared: 06/21/21 Analyzed: 06/23/21

Diesel Range Organics (C10-C28)	453	25.0	500		90.7	38-132			
Surrogate: n-Nonane	56.8		50.0		114	50-200			

## Matrix Spike (2126008-MS1)

Source: E106046-23 Prepared: 06/21/21 Analyzed: 06/23/21

Diesel Range Organics (C10-C28)	440	25.0	500	ND	88.1	38-132			
Surrogate: n-Nonane	54.8		50.0		110	50-200			

## Matrix Spike Dup (2126008-MSD1)

Source: E106046-23 Prepared: 06/21/21 Analyzed: 06/23/21

Diesel Range Organics (C10-C28)	434	25.0	500	ND	86.9	38-132	1.32	20	
Surrogate: n-Nonane	55.3		50.0		111	50-200			





## QC Summary Data

Kaiser Francis Oil Company	Project Name:	4-15 SWD Line 06.12.2021 Spill	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/25/2021 9:58:12AM

## Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

## Blank (2126005-BLK1)

Prepared: 06/21/21 Analyzed: 06/21/21

Chloride ND 20.0

## LCS (2126005-BS1)

Prepared: 06/21/21 Analyzed: 06/21/21

Chloride 243 20.0 250 97.1 90-110

## Matrix Spike (2126005-MS1)

Source: E106046-01 Prepared: 06/21/21 Analyzed: 06/21/21

Chloride 247 20.0 250 ND 98.9 80-120

## Matrix Spike Dup (2126005-MSD1)

Source: E106046-01 Prepared: 06/21/21 Analyzed: 06/21/21

Chloride 246 20.0 250 ND 98.5 80-120 0.426 20



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	4-15 SWD Line 06.12.2021 Spill	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/25/2021 9:58:12AM

## Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

## Blank (2126006-BLK1)

Prepared: 06/21/21 Analyzed: 06/22/21

Chloride ND 20.0

## LCS (2126006-BS1)

Prepared: 06/21/21 Analyzed: 06/22/21

Chloride 246 20.0 250 98.3 90-110

## Matrix Spike (2126006-MS1)

Source: E106038-01 Prepared: 06/21/21 Analyzed: 06/22/21

Chloride 252 20.0 250 ND 101 80-120

## Matrix Spike Dup (2126006-MSD1)

Source: E106038-01 Prepared: 06/21/21 Analyzed: 06/22/21

Chloride 253 20.0 250 ND 101 80-120 0.103 20

## QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

Kaiser Francis Oil Company	Project Name:	4-15 SWD Line 06.12.2021 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/25/21 09:58

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Page 1 of   

Client: KFOC  
Project: 4-15 SWD Line OG. 12. 7021 Spill  
Project Manager: Ashley Giovenco  
Address: 1274 Standpipe Rd  
City, State, Zip: Carlsbad NM 88220  
Phone: 505-382-1211  
Email: ashley.giovenco@wescominc.com  
Report due by:                 

Bill To  
Attention: Wescom Inc.  
Address: 1274 Stand pipe rd  
City, State, Zip: Carlsbad NM 88220  
Phone: 505-382-1211  
Email: ashley.giovenco@wescominc.com

Chain of Custody

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Lab Use Only						TAT				EPA Program	
						Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA				
						E 106046	210220001				X						
Analysis and Method																RCRA	
DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0							BGDOC NM	BGDOC TX			State	
																NM CO UT AZ TX	
																Remarks	
1231	6/16/21	S	1	BG03-0'	1							X					
1241	6/16/21	S	1	BG03-4'	2							X					
1238	6/16/21	S	1	BG03-2'	3							X					
1249	6/16/21	S	1	BG03-6'	4							X					
1335	06/17/21	S	1	SS03-6-0'	5							X					
0838	06/16/21	S	1	SS04-0'	6							X					
1556	06/17/21	S	1	SS06-2-0'	7							X					
0710	6/17/21	S	1	SS08-3-0'	8							X					
1514	6/16/21	S	1	SS09-2-0'	9							X					
1513	6/16/21	S	1	SS10-2-0'	10							X					

Additional Instructions: CC: Shar harvester Natalie Nunez Preserved on ice. RAS 6/21/21 Samples dropped off in fridge.

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.  
Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
<u>[Signature]</u>	<u>06/18/2021</u>	<u>0632</u>	<u>[Signature]</u>	<u>6.18.21</u>	<u>632</u>
<u>[Signature]</u>	<u>6.18.21</u>	<u>1730</u>	<u>Rana Schwanzy</u>	<u>6/21/21</u>	<u>9:00</u>
<u>[Signature]</u>	<u>            </u>	<u>            </u>	<u>            </u>	<u>            </u>	<u>            </u>

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other      Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Lab Use Only  
Received on ice: (Y) / N  
T1              T2              T3               
AVG Temp °C 3.6 (Fridge temp)



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Client: KFOC  
 Project: 4-15 SWD Line 06/12/2021 SP11  
 Project Manager: Ashley Giovenco  
 Address: 1224 Standpipe Rd  
 City, State, Zip: Carlsbad NM 88220  
 Phone: 505-382-1211  
 Email: ashley.giovenco@wescominc.com  
 Report due by:

Bill To  
 Attention: Wescom Inc.  
 Address: 1224 Standpipe Rd  
 City, State, Zip: Carlsbad NM 88220  
 Phone: 505-382-1211  
 Email: ashley.giovenco@wescominc.com

Lab Use Only						TAT				EPA Program		
Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA			RCRA		
E 106046	21022-001				X							
Analysis and Method												
DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	State				
								NM	CO	UT	AZ	TX
						X		X				
Remarks												
						X						
						X						
						X						
						X						
						X						
						X						
						X						
						X						
						X						
						X						
						X						

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number
126	6/17/21	S	1	SS14-4-0'	11
354	6/17/21	S	1	SS16-3-0'	12
1404	6/17/21	S	1	SS17-4-0'	13
0939	6/17/21	S	1	SS20-1-0'	14
0732	6/17/21	S	1	SS21-0'	15
1300	6/17/21	S	1	SS22-1-0'	16
0735	6/17/21	S	1	SS23-0'	17
0740	6/17/21	S	1	SS24-0'	18
0741	6/17/21	S	1	SS25-0'	19
0743	6/17/21	S	1	SS26-0'	20

## Additional Instructions:

CC: Shar harvester Natalie Muner preserved on ice.

RAS 6/21/21  
 Samples dropped off in fridge

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by:

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
<i>Natalie</i>	06/18/2021	0632	<i>[Signature]</i>	6.18.21	632
<i>[Signature]</i>	6.18.21	1730	<i>Rain Schwann</i>	6/21/21	9:00
<i>[Signature]</i>					

Lab Use Only		
Received on ice:	(Y) / N	
T1	T2	T3
AVG Temp °C 3.6 (Fridge temp)		

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



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Chain of Custody

Bill To  
Attention: Westcom Inc.  
Address: 1724 Standpipe Rd  
City, State, Zip: Carlsbad NM 88220  
Phone: 505-382-1211  
Email: Ashley.Gioiengo@westcominc.com

Report due by:  
Project Manager: Ashley Gioiengo  
Address: 1724 Standpipe Rd  
City, State, Zip: Carlsbad NM 88220  
Phone: 505-382-1211  
Email: ashley.gioiengo@westcominc.com

Time	Date	Matrix	No. of Containers	Sample ID	Lab Number	Analysis and Method	Remarks
0744	6/17/21	S	1	5527-0'	21		
1410	6/17/21	S	1	5528-2-0'	22		
1305	6/17/21	S	1	5529-1-0'	23		
1415	6/17/21	S	1	5530-2-0'	24		
0757	6/17/21	S	1	5532-0'	25		
0800	6/17/21	S	1	5533-0'	26		
0802	6/17/21	S	1	5534-0'	27		
0805	6/17/21	S	1	5535-0'	28		

Lab WO#	Job Number	1D	2D	3D	TAT	EPA Program
E106046	21022-0001				X	Standard
						CWA
						SDWA

Analysis and Method	1D	2D	3D	TAT
BDQC NM				
BDQC TX				
Chloride 300.0				
Metals 6010				
VOC by 8260				
BTX by 8021				
GRO/DRO by 8015				
DRO/DRO by 8015				

State	NM	CO	UT	AZ	TX
	X				

Sampled	Date	Matrix	No. of Containers	Sample ID	Lab Number	Analysis and Method	Remarks
0744	6/17/21	S	1	5527-0'	21		
1410	6/17/21	S	1	5528-2-0'	22		
1305	6/17/21	S	1	5529-1-0'	23		
1415	6/17/21	S	1	5530-2-0'	24		
0757	6/17/21	S	1	5532-0'	25		
0800	6/17/21	S	1	5533-0'	26		
0802	6/17/21	S	1	5534-0'	27		
0805	6/17/21	S	1	5535-0'	28		

Additional Instructions: CC: Shay Harvester Natalie Munoz reserved on ice.

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, samples requiring thermal preservation must be received on ice the day they are sampled or received

Sampled by:

packed in ice at an avg temp above 0 but less than 6°C on subsequent days.

Lab Use Only

Received on ice: (Y) N

Container Type: G - glass, P - poly/plastic, AG - amber glass, V - VOA

AVG Temp °C 3.6 (Fridge temp)

Sample Matrix: S - Soil, SD - Solid, SG - Sludge, A - Aqueous, O - Other

Sample Matrix: S - Soil, SD - Solid, SG - Sludge, A - Aqueous, O - Other

Sample Matrix: S - Soil, SD - Solid, SG - Sludge, A - Aqueous, O - Other

Sample Matrix: S - Soil, SD - Solid, SG - Sludge, A - Aqueous, O - Other

Sample Matrix: S - Soil, SD - Solid, SG - Sludge, A - Aqueous, O - Other

Sample Matrix: S - Soil, SD - Solid, SG - Sludge, A - Aqueous, O - Other

Sample Matrix: S - Soil, SD - Solid, SG - Sludge, A - Aqueous, O - Other

Sample Matrix: S - Soil, SD - Solid, SG - Sludge, A - Aqueous, O - Other

Sample Matrix: S - Soil, SD - Solid, SG - Sludge, A - Aqueous, O - Other



## Envirotech Analytical Laboratory

Printed: 6/21/2021 9:39:36AM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	KFOC	Date Received:	06/21/21 09:00	Work Order ID:	E106046
Phone:	(505) 382-1211	Date Logged In:	06/21/21 09:10	Logged In By:	Raina Schwanz
Email:	ashley.giovengo@wescominc.com	Due Date:	06/25/21 17:00 (4 day TAT)		

**Chain of Custody (COC)**

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: Lynn Estes**Comments/Resolution**

Samples dropped off after hours and left in fridge.

**Sample Turn Around Time (TAT)**

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

**Sample Cooler**

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 3.6°C

**Sample Container**

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

**Field Label**

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? Yes

**Sample Preservation**

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

**Multiphase Sample Matrix**

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

**Subcontract Laboratory**

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

**Client Instruction**

Email: Shar, Natalie, &amp; Ashley

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:  
Ashley Giovengo



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*Practical Solutions for a Better Tomorrow*

## Analytical Report

Kaiser Francis Oil Company

Project Name: 4-15 SWD Line 06.12.2021 Spill

Work Order: E107012

Job Number: 21022-0001

Received: 7/8/2021

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
7/13/21

5796 U.S. Hwy 64  
Farmington, NM 87401

Phone: (505) 632-1881  
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.  
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.  
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.  
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.  
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.



Date Reported: 7/13/21



Ashley Giovengo  
1224 Standpipe Rd  
Carlsbad, NM 88220

Project Name: 4-15 SWD Line 06.12.2021 Spill  
Workorder: E107012  
Date Received: 7/8/2021 12:30:00PM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/8/2021 12:30:00PM, under the Project Name: 4-15 SWD Line 06.12.2021 Spill.

The analytical test results summarized in this report with the Project Name: 4-15 SWD Line 06.12.2021 Spill apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

**Walter Hinchman**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
[labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**  
**Lynn Jarboe**  
Technical Representative/Client Services  
Office: 505-421-LABS(5227)  
Cell: 505-320-4759  
[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**West Texas Midland/Odessa Area**  
**Tom Brown**  
Technical Representative  
Cell: 832-444-7704  
[tbrown@envirotech-inc.com](mailto:tbrown@envirotech-inc.com)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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**Sample Summary**

Kaiser Francis Oil Company	Project Name:	4-15 SWD Line 06.12.2021 Spill	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	07/13/21 13:36

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01-19'	E107012-01A	Soil	07/02/21	07/08/21	Glass Jar, 4 oz.



## Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: 4-15 SWD Line 06.12.2021 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 7/13/2021 1:36:59PM
---	--	---

## BH01-19'

## E107012-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY			Batch: 2129009
Benzene	ND	0.0250	1	07/12/21	07/12/21	
Ethylbenzene	ND	0.0250	1	07/12/21	07/12/21	
Toluene	ND	0.0250	1	07/12/21	07/12/21	
o-Xylene	ND	0.0250	1	07/12/21	07/12/21	
p,m-Xylene	ND	0.0500	1	07/12/21	07/12/21	
Total Xylenes	ND	0.0250	1	07/12/21	07/12/21	
Surrogate: 4-Bromochlorobenzene-PID	88.8 %	70-130		07/12/21	07/12/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY			Batch: 2129009
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/12/21	07/12/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.8 %	70-130		07/12/21	07/12/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL			Batch: 2129001
Diesel Range Organics (C10-C28)	ND	25.0	1	07/12/21	07/12/21	
Oil Range Organics (C28-C36)	ND	50.0	1	07/12/21	07/12/21	
Surrogate: n-Nonane	93.1 %	50-200		07/12/21	07/12/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS			Batch: 2129010
Chloride	997	20.0	1	07/12/21	07/12/21	





## QC Summary Data

Kaiser Francis Oil Company	Project Name:	4-15 SWD Line 06.12.2021 Spill	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	7/13/2021 1:36:59PM

## Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

## Blank (2129009-BLK1)

Prepared: 07/12/21 Analyzed: 07/12/21

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.27		8.00		90.9	70-130			

## LCS (2129009-BS1)

Prepared: 07/12/21 Analyzed: 07/12/21

Benzene	4.74	0.0250	5.00		94.8	70-130			
Ethylbenzene	4.89	0.0250	5.00		97.7	70-130			
Toluene	5.02	0.0250	5.00		100	70-130			
o-Xylene	5.01	0.0250	5.00		100	70-130			
p,m-Xylene	9.93	0.0500	10.0		99.3	70-130			
Total Xylenes	14.9	0.0250	15.0		99.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.50		8.00		93.7	70-130			

## Matrix Spike (2129009-MS1)

Source: E107012-01 Prepared: 07/12/21 Analyzed: 07/12/21

Benzene	4.89	0.0250	5.00	ND	97.8	54-133			
Ethylbenzene	4.98	0.0250	5.00	ND	99.7	61-133			
Toluene	5.15	0.0250	5.00	ND	103	61-130			
o-Xylene	5.13	0.0250	5.00	ND	103	63-131			
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131			
Total Xylenes	15.3	0.0250	15.0	ND	102	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.37		8.00		92.1	70-130			

## Matrix Spike Dup (2129009-MSD1)

Source: E107012-01 Prepared: 07/12/21 Analyzed: 07/12/21

Benzene	4.58	0.0250	5.00	ND	91.6	54-133	6.50	20	
Ethylbenzene	4.65	0.0250	5.00	ND	93.1	61-133	6.85	20	
Toluene	4.81	0.0250	5.00	ND	96.2	61-130	6.82	20	
o-Xylene	4.79	0.0250	5.00	ND	95.8	63-131	6.89	20	
p,m-Xylene	9.46	0.0500	10.0	ND	94.6	63-131	6.83	20	
Total Xylenes	14.2	0.0250	15.0	ND	95.0	63-131	6.85	20	
Surrogate: 4-Bromochlorobenzene-PID	7.34		8.00		91.7	70-130			



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	4-15 SWD Line 06.12.2021 Spill	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	7/13/2021 1:36:59PM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2129009-BLK1)

Prepared: 07/12/21 Analyzed: 07/12/21

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.90		8.00		98.7	70-130			

## LCS (2129009-BS2)

Prepared: 07/12/21 Analyzed: 07/12/21

Gasoline Range Organics (C6-C10)	47.6	20.0	50.0		95.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.90		8.00		98.8	70-130			

## Matrix Spike (2129009-MS2)

Source: E107012-01 Prepared: 07/12/21 Analyzed: 07/12/21

Gasoline Range Organics (C6-C10)	46.9	20.0	50.0	ND	93.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.75		8.00		96.9	70-130			

## Matrix Spike Dup (2129009-MSD2)

Source: E107012-01 Prepared: 07/12/21 Analyzed: 07/12/21

Gasoline Range Organics (C6-C10)	45.7	20.0	50.0	ND	91.4	70-130	2.57	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.83		8.00		97.9	70-130			



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	4-15 SWD Line 06.12.2021 Spill	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	7/13/2021 1:36:59PM

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2129001-BLK1)

Prepared: 07/12/21 Analyzed: 07/12/21

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	38.5		50.0		77.0	50-200			

## LCS (2129001-BS1)

Prepared: 07/12/21 Analyzed: 07/12/21

Diesel Range Organics (C10-C28)	406	25.0	500		81.1	38-132			
Surrogate: n-Nonane	41.7		50.0		83.5	50-200			

## Matrix Spike (2129001-MS1)

Source: E107012-01 Prepared: 07/12/21 Analyzed: 07/12/21

Diesel Range Organics (C10-C28)	423	25.0	500	ND	84.7	38-132			
Surrogate: n-Nonane	27.2		50.0		54.3	50-200			

## Matrix Spike Dup (2129001-MSD1)

Source: E107012-01 Prepared: 07/12/21 Analyzed: 07/12/21

Diesel Range Organics (C10-C28)	442	25.0	500	ND	88.4	38-132	4.32	20	
Surrogate: n-Nonane	42.5		50.0		85.1	50-200			



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	4-15 SWD Line 06.12.2021 Spill	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	7/13/2021 1:36:59PM

## Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2129010-BLK1)

Prepared: 07/12/21 Analyzed: 07/12/21

Chloride	ND	20.0							
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## LCS (2129010-BS1)

Prepared: 07/12/21 Analyzed: 07/12/21

Chloride	245	20.0	250		97.8	90-110			
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## Matrix Spike (2129010-MS1)

Source: E107012-01 Prepared: 07/12/21 Analyzed: 07/12/21

Chloride	1150	20.0	250	997	60.9	80-120			M2
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## Matrix Spike Dup (2129010-MSD1)

Source: E107012-01 Prepared: 07/12/21 Analyzed: 07/12/21

Chloride	1190	20.0	250	997	78.1	80-120	3.67	20	M2
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## QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.





## Definitions and Notes

Kaiser Francis Oil Company	Project Name:	4-15 SWD Line 06.12.2021 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	<b>Reported:</b>
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	07/13/21 13:36

M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



**envirotech**

## Envirotech Analytical Laboratory

Printed: 7/8/2021 1:55:56PM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Kaiser Francis Oil Company	Date Received:	07/08/21 12:30	Work Order ID:	E107012
Phone:	(505) 382-1211	Date Logged In:	07/08/21 13:54	Logged In By:	Raina Schwanz
Email:	ashley.giovengo@wescominc.com	Due Date:	07/13/21 17:00 (3 day TAT)		

**Chain of Custody (COC)**

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: Fedex**Comments/Resolution****Sample Turn Around Time (TAT)**

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

**Sample Cooler**

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

**Sample Container**

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

**Field Label**

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? Yes

**Sample Preservation**

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

**Multiphase Sample Matrix**

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

**Subcontract Laboratory**

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

**Client Instruction**

Email: Shar, Natalie, &amp; Ashley

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:  
Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Kaiser Francis Oil Company

Project Name: NBL 4-15 SWD 6.12.21 Spill

Work Order: E110115

Job Number: 21022-0001

Received: 10/24/2021

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
10/29/21

5796 U.S. Hwy 64  
Farmington, NM 87401

Phone: (505) 632-1881  
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.  
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.  
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.  
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.  
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.  
Envirotech Inc. holds the NM SDWA certification for data reported. (Lab #NM00979)



Date Reported: 10/29/21

Ashley Giovengo  
1224 Standpipe Rd  
Carlsbad, NM 88220



Project Name: NBL 4-15 SWD 6.12.21 Spill  
Workorder: E110115  
Date Received: 10/24/2021 5:30:00PM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/24/2021 5:30:00PM, under the Project Name: NBL 4-15 SWD 6.12.21 Spill.

The analytical test results summarized in this report with the Project Name: NBL 4-15 SWD 6.12.21 Spill apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

**Walter Hinchman**  
Laboratory Director  
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Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
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**Alexa Michaels**  
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**West Texas Midland/Odessa Area**  
**Rayny Hagan**  
Technical Representative  
Office: 505-421-LABS(5227)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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## Sample Summary

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: NBL 4-15 SWD 6.12.21 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	Reported: 10/29/21 18:12
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CONF 01-0'	E110115-01A	Soil	10/18/21	10/24/21	Glass Jar, 4 oz.
CONF 02-0'	E110115-02A	Soil	10/18/21	10/24/21	Glass Jar, 4 oz.
CONF 03-0'	E110115-03A	Soil	10/18/21	10/24/21	Glass Jar, 4 oz.
CONF 04-0'	E110115-04A	Soil	10/18/21	10/24/21	Glass Jar, 4 oz.
CONF 05-0'	E110115-05A	Soil	10/18/21	10/24/21	Glass Jar, 4 oz.
CONF 06-0'	E110115-06A	Soil	10/18/21	10/24/21	Glass Jar, 4 oz.
CONF 07-0'	E110115-07A	Soil	10/18/21	10/24/21	Glass Jar, 4 oz.
CONF 09-0'	E110115-08A	Soil	10/18/21	10/24/21	Glass Jar, 4 oz.
CONF 10-wall	E110115-09A	Soil	10/18/21	10/24/21	Glass Jar, 4 oz.
CONF 11-0'	E110115-10A	Soil	10/18/21	10/24/21	Glass Jar, 4 oz.
CONF 12	E110115-11A	Soil	10/18/21	10/24/21	Glass Jar, 4 oz.
CONF 13	E110115-12A	Soil	10/18/21	10/24/21	Glass Jar, 4 oz.
CONF 14	E110115-13A	Soil	10/18/21	10/24/21	Glass Jar, 4 oz.
CONF 16	E110115-14A	Soil	10/19/21	10/24/21	Glass Jar, 4 oz.
CONF 17	E110115-15A	Soil	10/18/21	10/24/21	Glass Jar, 4 oz.
CONF 18	E110115-16A	Soil	10/18/21	10/24/21	Glass Jar, 4 oz.
CONF 19	E110115-17A	Soil	10/18/21	10/24/21	Glass Jar, 4 oz.
CONF 20	E110115-18A	Soil	10/18/21	10/24/21	Glass Jar, 4 oz.
CONF 21	E110115-19A	Soil	10/18/21	10/24/21	Glass Jar, 4 oz.
CONF 22	E110115-20A	Soil	10/18/21	10/24/21	Glass Jar, 4 oz.





## Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: NBL 4-15 SWD 6.12.21 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 10/29/2021 6:12:36PM
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## CONF 01-0'

## E110115-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2144042	
Benzene	ND	0.0250	1	10/28/21	10/28/21	
Ethylbenzene	ND	0.0250	1	10/28/21	10/28/21	
Toluene	ND	0.0250	1	10/28/21	10/28/21	
o-Xylene	ND	0.0250	1	10/28/21	10/28/21	
p,m-Xylene	ND	0.0500	1	10/28/21	10/28/21	
Total Xylenes	ND	0.0250	1	10/28/21	10/28/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	95.0 %	70-130		10/28/21	10/28/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2144042	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/21	10/28/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	104 %	70-130		10/28/21	10/28/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2144041	
Diesel Range Organics (C10-C28)	41.6	25.0	1	10/27/21	10/29/21	
Oil Range Organics (C28-C36)	60.0	50.0	1	10/27/21	10/29/21	
<i>Surrogate: n-Nonane</i>	115 %	50-200		10/27/21	10/29/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2144033	
Chloride	8380	1000	50	10/28/21	10/29/21	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: NBL 4-15 SWD 6.12.21 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
10/29/2021 6:12:36PM

CONF 02-0'

E110115-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2144042	
Benzene	ND	0.0250	1	10/28/21	10/28/21	
Ethylbenzene	ND	0.0250	1	10/28/21	10/28/21	
Toluene	ND	0.0250	1	10/28/21	10/28/21	
o-Xylene	ND	0.0250	1	10/28/21	10/28/21	
p,m-Xylene	ND	0.0500	1	10/28/21	10/28/21	
Total Xylenes	ND	0.0250	1	10/28/21	10/28/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	10/28/21	10/28/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2144042	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/21	10/28/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		103 %	70-130	10/28/21	10/28/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2144041	
Diesel Range Organics (C10-C28)	513	25.0	1	10/27/21	10/29/21	
Oil Range Organics (C28-C36)	262	50.0	1	10/27/21	10/29/21	
<i>Surrogate: n-Nonane</i>		110 %	50-200	10/27/21	10/29/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2144033	
Chloride	6820	400	20	10/28/21	10/29/21	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: NBL 4-15 SWD 6.12.21 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
10/29/2021 6:12:36PM

CONF 03-0'

E110115-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2144042
Benzene	ND	0.0250	1	10/28/21	10/28/21	
Ethylbenzene	ND	0.0250	1	10/28/21	10/28/21	
Toluene	ND	0.0250	1	10/28/21	10/28/21	
o-Xylene	ND	0.0250	1	10/28/21	10/28/21	
p,m-Xylene	ND	0.0500	1	10/28/21	10/28/21	
Total Xylenes	ND	0.0250	1	10/28/21	10/28/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	10/28/21	10/28/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2144042
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/21	10/28/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		103 %	70-130	10/28/21	10/28/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2144041
Diesel Range Organics (C10-C28)	263	25.0	1	10/27/21	10/29/21	
Oil Range Organics (C28-C36)	170	50.0	1	10/27/21	10/29/21	
<i>Surrogate: n-Nonane</i>						
		107 %	50-200	10/27/21	10/29/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2144033
Chloride	9150	1000	50	10/28/21	10/29/21	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: NBL 4-15 SWD 6.12.21 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
10/29/2021 6:12:36PM

CONF 04-0'

E110115-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2144042	
Benzene	ND	0.0250	1	10/28/21	10/28/21	
Ethylbenzene	ND	0.0250	1	10/28/21	10/28/21	
Toluene	ND	0.0250	1	10/28/21	10/28/21	
o-Xylene	ND	0.0250	1	10/28/21	10/28/21	
p,m-Xylene	ND	0.0500	1	10/28/21	10/28/21	
Total Xylenes	ND	0.0250	1	10/28/21	10/28/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %	70-130	10/28/21	10/28/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2144042	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/21	10/28/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		102 %	70-130	10/28/21	10/28/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2144041	
Diesel Range Organics (C10-C28)	93.2	25.0	1	10/27/21	10/29/21	
Oil Range Organics (C28-C36)	127	50.0	1	10/27/21	10/29/21	
<i>Surrogate: n-Nonane</i>		102 %	50-200	10/27/21	10/29/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2144033	
Chloride	2830	400	20	10/28/21	10/29/21	





## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: NBL 4-15 SWD 6.12.21 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
10/29/2021 6:12:36PM

CONF 05-0'

E110115-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2144042	
Benzene	ND	0.0250	1	10/28/21	10/28/21	
Ethylbenzene	ND	0.0250	1	10/28/21	10/28/21	
Toluene	ND	0.0250	1	10/28/21	10/28/21	
o-Xylene	ND	0.0250	1	10/28/21	10/28/21	
p,m-Xylene	ND	0.0500	1	10/28/21	10/28/21	
Total Xylenes	ND	0.0250	1	10/28/21	10/28/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	10/28/21	10/28/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2144042	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/21	10/28/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		102 %	70-130	10/28/21	10/28/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2144041	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/27/21	10/29/21	
Oil Range Organics (C28-C36)	ND	50.0	1	10/27/21	10/29/21	
<i>Surrogate: n-Nonane</i>		94.2 %	50-200	10/27/21	10/29/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2144033	
Chloride	25.1	20.0	1	10/28/21	10/28/21	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: NBL 4-15 SWD 6.12.21 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
10/29/2021 6:12:36PM

CONF 06-0'

E110115-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2144042	
Benzene	ND	0.0250	1	10/28/21	10/28/21	
Ethylbenzene	ND	0.0250	1	10/28/21	10/28/21	
Toluene	ND	0.0250	1	10/28/21	10/28/21	
o-Xylene	ND	0.0250	1	10/28/21	10/28/21	
p,m-Xylene	ND	0.0500	1	10/28/21	10/28/21	
Total Xylenes	ND	0.0250	1	10/28/21	10/28/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %	70-130	10/28/21	10/28/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2144042	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/21	10/28/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		101 %	70-130	10/28/21	10/28/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2144041	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/27/21	10/29/21	
Oil Range Organics (C28-C36)	ND	50.0	1	10/27/21	10/29/21	
<i>Surrogate: n-Nonane</i>		106 %	50-200	10/27/21	10/29/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2144033	
Chloride	1770	40.0	2	10/28/21	10/29/21	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: NBL 4-15 SWD 6.12.21 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
10/29/2021 6:12:36PM

CONF 07-0'

E110115-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2144042
Benzene	ND	0.0250	1	10/28/21	10/28/21	
Ethylbenzene	ND	0.0250	1	10/28/21	10/28/21	
Toluene	ND	0.0250	1	10/28/21	10/28/21	
o-Xylene	ND	0.0250	1	10/28/21	10/28/21	
p,m-Xylene	ND	0.0500	1	10/28/21	10/28/21	
Total Xylenes	ND	0.0250	1	10/28/21	10/28/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.9 %	70-130		10/28/21	10/28/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2144042
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/21	10/28/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.1 %	70-130		10/28/21	10/28/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2144041
Diesel Range Organics (C10-C28)	ND	25.0	1	10/27/21	10/29/21	
Oil Range Organics (C28-C36)	ND	50.0	1	10/27/21	10/29/21	
<i>Surrogate: n-Nonane</i>						
	108 %	50-200		10/27/21	10/29/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2144033
Chloride	57.7	20.0	1	10/28/21	10/28/21	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: NBL 4-15 SWD 6.12.21 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
10/29/2021 6:12:36PM

CONF 09-0'

E110115-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2144042	
Benzene	ND	0.0250	1	10/28/21	10/28/21	
Ethylbenzene	ND	0.0250	1	10/28/21	10/28/21	
Toluene	ND	0.0250	1	10/28/21	10/28/21	
o-Xylene	ND	0.0250	1	10/28/21	10/28/21	
p,m-Xylene	ND	0.0500	1	10/28/21	10/28/21	
Total Xylenes	ND	0.0250	1	10/28/21	10/28/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	96.5 %	70-130		10/28/21	10/28/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2144042	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/21	10/28/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	90.9 %	70-130		10/28/21	10/28/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2144041	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/27/21	10/29/21	
Oil Range Organics (C28-C36)	ND	50.0	1	10/27/21	10/29/21	
<i>Surrogate: n-Nonane</i>	94.3 %	50-200		10/27/21	10/29/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2144033	
Chloride	2240	40.0	2	10/28/21	10/29/21	





## Sample Data

Kaiser Francis Oil Company	Project Name:	NBL 4-15 SWD 6.12.21 Spill	<b>Reported:</b> 10/29/2021 6:12:36PM
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

## CONF 10-wall

## E110115-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2144042	
Benzene	ND	0.0500	2	10/28/21	10/28/21	
Ethylbenzene	ND	0.0500	2	10/28/21	10/28/21	
Toluene	ND	0.0500	2	10/28/21	10/28/21	
o-Xylene	ND	0.0500	2	10/28/21	10/28/21	
p,m-Xylene	ND	0.100	2	10/28/21	10/28/21	
Total Xylenes	ND	0.0500	2	10/28/21	10/28/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	97.6 %	70-130		10/28/21	10/28/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2144042	
Gasoline Range Organics (C6-C10)	ND	40.0	2	10/28/21	10/28/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	92.0 %	70-130		10/28/21	10/28/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2144041	
Diesel Range Organics (C10-C28)	28.0	25.0	1	10/27/21	10/29/21	
Oil Range Organics (C28-C36)	51.2	50.0	1	10/27/21	10/29/21	
<i>Surrogate: n-Nonane</i>	113 %	50-200		10/27/21	10/29/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2144033	
Chloride	4430	40.0	2	10/28/21	10/29/21	



## Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: NBL 4-15 SWD 6.12.21 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	Reported: 10/29/2021 6:12:36PM
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## CONF 11-0'

## E110115-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2144042	
Benzene	ND	0.0250	1	10/28/21	10/28/21	
Ethylbenzene	ND	0.0250	1	10/28/21	10/28/21	
Toluene	ND	0.0250	1	10/28/21	10/28/21	
o-Xylene	ND	0.0250	1	10/28/21	10/28/21	
p,m-Xylene	ND	0.0500	1	10/28/21	10/28/21	
Total Xylenes	ND	0.0250	1	10/28/21	10/28/21	
Surrogate: 4-Bromochlorobenzene-PID	98.7 %	70-130		10/28/21	10/28/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2144042	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/21	10/28/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.9 %	70-130		10/28/21	10/28/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2144041	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/27/21	10/29/21	
Oil Range Organics (C28-C36)	ND	50.0	1	10/27/21	10/29/21	
Surrogate: n-Nonane	98.8 %	50-200		10/27/21	10/29/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2144033	
Chloride	ND	20.0	1	10/28/21	10/28/21	



## Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: NBL 4-15 SWD 6.12.21 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	Reported: 10/29/2021 6:12:36PM
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## CONF 12

## E110115-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2144042	
Benzene	ND	0.0250	1	10/28/21	10/28/21	
Ethylbenzene	ND	0.0250	1	10/28/21	10/28/21	
Toluene	ND	0.0250	1	10/28/21	10/28/21	
o-Xylene	ND	0.0250	1	10/28/21	10/28/21	
p,m-Xylene	ND	0.0500	1	10/28/21	10/28/21	
Total Xylenes	ND	0.0250	1	10/28/21	10/28/21	
Surrogate: 4-Bromochlorobenzene-PID	98.5 %	70-130		10/28/21	10/28/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2144042	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/21	10/28/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.9 %	70-130		10/28/21	10/28/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2144041	
Diesel Range Organics (C10-C28)	45.7	25.0	1	10/27/21	10/29/21	
Oil Range Organics (C28-C36)	71.9	50.0	1	10/27/21	10/29/21	
Surrogate: n-Nonane	102 %	50-200		10/27/21	10/29/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2144033	
Chloride	7880	400	20	10/28/21	10/29/21	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: NBL 4-15 SWD 6.12.21 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
10/29/2021 6:12:36PM

## CONF 13

## E110115-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2144042	
Benzene	ND	0.0250	1	10/28/21	10/28/21	
Ethylbenzene	ND	0.0250	1	10/28/21	10/28/21	
Toluene	ND	0.0250	1	10/28/21	10/28/21	
o-Xylene	ND	0.0250	1	10/28/21	10/28/21	
p,m-Xylene	ND	0.0500	1	10/28/21	10/28/21	
Total Xylenes	ND	0.0250	1	10/28/21	10/28/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	98.7 %	70-130		10/28/21	10/28/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2144042	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/21	10/28/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	89.6 %	70-130		10/28/21	10/28/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2144041	
Diesel Range Organics (C10-C28)	38.6	25.0	1	10/27/21	10/29/21	
Oil Range Organics (C28-C36)	74.5	50.0	1	10/27/21	10/29/21	
<i>Surrogate: n-Nonane</i>	94.2 %	50-200		10/27/21	10/29/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2144033	
Chloride	6120	200	10	10/28/21	10/29/21	



## Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: NBL 4-15 SWD 6.12.21 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 10/29/2021 6:12:36PM
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## CONF 14

## E110115-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2144042	
Benzene	ND	0.0250	1	10/28/21	10/28/21	
Ethylbenzene	ND	0.0250	1	10/28/21	10/28/21	
Toluene	ND	0.0250	1	10/28/21	10/28/21	
o-Xylene	ND	0.0250	1	10/28/21	10/28/21	
p,m-Xylene	ND	0.0500	1	10/28/21	10/28/21	
Total Xylenes	ND	0.0250	1	10/28/21	10/28/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	97.3 %	70-130		10/28/21	10/28/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2144042	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/21	10/28/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	90.8 %	70-130		10/28/21	10/28/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2144041	
Diesel Range Organics (C10-C28)	82.1	25.0	1	10/27/21	10/29/21	
Oil Range Organics (C28-C36)	168	50.0	1	10/27/21	10/29/21	
<i>Surrogate: n-Nonane</i>	107 %	50-200		10/27/21	10/29/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2144033	
Chloride	5220	400	20	10/28/21	10/29/21	





## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: NBL 4-15 SWD 6.12.21 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
10/29/2021 6:12:36PM

## CONF 16

## E110115-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2144042
Benzene	ND	0.0250	1	10/28/21	10/28/21	
Ethylbenzene	ND	0.0250	1	10/28/21	10/28/21	
Toluene	ND	0.0250	1	10/28/21	10/28/21	
o-Xylene	ND	0.0250	1	10/28/21	10/28/21	
p,m-Xylene	ND	0.0500	1	10/28/21	10/28/21	
Total Xylenes	ND	0.0250	1	10/28/21	10/28/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.2 %	70-130		10/28/21	10/28/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2144042
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/21	10/28/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.6 %	70-130		10/28/21	10/28/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2144041
Diesel Range Organics (C10-C28)	83.8	25.0	1	10/27/21	10/29/21	
Oil Range Organics (C28-C36)	145	50.0	1	10/27/21	10/29/21	
<i>Surrogate: n-Nonane</i>						
	98.8 %	50-200		10/27/21	10/29/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2144033
Chloride	5120	400	20	10/28/21	10/29/21	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: NBL 4-15 SWD 6.12.21 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
10/29/2021 6:12:36PM

## CONF 17

## E110115-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2144042	
Benzene	ND	0.0250	1	10/28/21	10/28/21	
Ethylbenzene	ND	0.0250	1	10/28/21	10/28/21	
Toluene	ND	0.0250	1	10/28/21	10/28/21	
o-Xylene	ND	0.0250	1	10/28/21	10/28/21	
p,m-Xylene	ND	0.0500	1	10/28/21	10/28/21	
Total Xylenes	ND	0.0250	1	10/28/21	10/28/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %	70-130	10/28/21	10/28/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2144042	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/21	10/28/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		102 %	70-130	10/28/21	10/28/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2144041	
Diesel Range Organics (C10-C28)	92.8	25.0	1	10/27/21	10/29/21	
Oil Range Organics (C28-C36)	184	50.0	1	10/27/21	10/29/21	
<i>Surrogate: n-Nonane</i>		113 %	50-200	10/27/21	10/29/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2144033	
Chloride	5810	400	20	10/28/21	10/29/21	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: NBL 4-15 SWD 6.12.21 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
10/29/2021 6:12:36PM

## CONF 18

## E110115-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2144042
Benzene	ND	0.0250	1	10/28/21	10/28/21	
Ethylbenzene	ND	0.0250	1	10/28/21	10/28/21	
Toluene	ND	0.0250	1	10/28/21	10/28/21	
o-Xylene	ND	0.0250	1	10/28/21	10/28/21	
p,m-Xylene	ND	0.0500	1	10/28/21	10/28/21	
Total Xylenes	ND	0.0250	1	10/28/21	10/28/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	10/28/21	10/28/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2144042
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/21	10/28/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		102 %	70-130	10/28/21	10/28/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2144041
Diesel Range Organics (C10-C28)	88.2	25.0	1	10/27/21	10/29/21	
Oil Range Organics (C28-C36)	153	50.0	1	10/27/21	10/29/21	
<i>Surrogate: n-Nonane</i>						
		115 %	50-200	10/27/21	10/29/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2144033
Chloride	5670	400	20	10/28/21	10/29/21	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: NBL 4-15 SWD 6.12.21 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
10/29/2021 6:12:36PM

## CONF 19

## E110115-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2144042
Benzene	ND	0.0250	1	10/28/21	10/28/21	
Ethylbenzene	ND	0.0250	1	10/28/21	10/28/21	
Toluene	ND	0.0250	1	10/28/21	10/28/21	
o-Xylene	ND	0.0250	1	10/28/21	10/28/21	
p,m-Xylene	ND	0.0500	1	10/28/21	10/28/21	
Total Xylenes	ND	0.0250	1	10/28/21	10/28/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	10/28/21	10/28/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2144042
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/21	10/28/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		102 %	70-130	10/28/21	10/28/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2144041
Diesel Range Organics (C10-C28)	35.9	25.0	1	10/27/21	10/29/21	
Oil Range Organics (C28-C36)	59.9	50.0	1	10/27/21	10/29/21	
<i>Surrogate: n-Nonane</i>						
		112 %	50-200	10/27/21	10/29/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2144033
Chloride	5700	400	20	10/28/21	10/29/21	



## Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: NBL 4-15 SWD 6.12.21 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 10/29/2021 6:12:36PM
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## CONF 20

## E110115-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2144042	
Benzene	ND	0.0250	1	10/28/21	10/28/21	
Ethylbenzene	ND	0.0250	1	10/28/21	10/28/21	
Toluene	ND	0.0250	1	10/28/21	10/28/21	
o-Xylene	ND	0.0250	1	10/28/21	10/28/21	
p,m-Xylene	ND	0.0500	1	10/28/21	10/28/21	
Total Xylenes	ND	0.0250	1	10/28/21	10/28/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	10/28/21	10/28/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2144042	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/21	10/28/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		101 %	70-130	10/28/21	10/28/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2144041	
Diesel Range Organics (C10-C28)	43.0	25.0	1	10/27/21	10/29/21	
Oil Range Organics (C28-C36)	69.3	50.0	1	10/27/21	10/29/21	
<i>Surrogate: n-Nonane</i>		110 %	50-200	10/27/21	10/29/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2144033	
Chloride	2080	200	10	10/28/21	10/29/21	





## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: NBL 4-15 SWD 6.12.21 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
10/29/2021 6:12:36PM

## CONF 21

## E110115-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2144042
Benzene	ND	0.0250	1	10/28/21	10/28/21	
Ethylbenzene	ND	0.0250	1	10/28/21	10/28/21	
Toluene	ND	0.0250	1	10/28/21	10/28/21	
o-Xylene	ND	0.0250	1	10/28/21	10/28/21	
p,m-Xylene	ND	0.0500	1	10/28/21	10/28/21	
Total Xylenes	ND	0.0250	1	10/28/21	10/28/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	10/28/21	10/28/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2144042
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/21	10/28/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		101 %	70-130	10/28/21	10/28/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2144041
Diesel Range Organics (C10-C28)	80.6	25.0	1	10/27/21	10/29/21	
Oil Range Organics (C28-C36)	127	50.0	1	10/27/21	10/29/21	
<i>Surrogate: n-Nonane</i>						
		110 %	50-200	10/27/21	10/29/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2144033
Chloride	6180	400	20	10/28/21	10/29/21	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: NBL 4-15 SWD 6.12.21 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
10/29/2021 6:12:36PM

## CONF 22

## E110115-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2144042	
Benzene	ND	0.0500	2	10/28/21	10/28/21	
Ethylbenzene	ND	0.0500	2	10/28/21	10/28/21	
Toluene	ND	0.0500	2	10/28/21	10/28/21	
o-Xylene	ND	0.0500	2	10/28/21	10/28/21	
p,m-Xylene	ND	0.100	2	10/28/21	10/28/21	
Total Xylenes	ND	0.0500	2	10/28/21	10/28/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	10/28/21	10/28/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2144042	
Gasoline Range Organics (C6-C10)	ND	40.0	2	10/28/21	10/28/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		102 %	70-130	10/28/21	10/28/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2144041	
Diesel Range Organics (C10-C28)	191	25.0	1	10/27/21	10/29/21	
Oil Range Organics (C28-C36)	295	50.0	1	10/27/21	10/29/21	
<i>Surrogate: n-Nonane</i>		122 %	50-200	10/27/21	10/29/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2144033	
Chloride	7060	400	20	10/28/21	10/29/21	



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	NBL 4-15 SWD 6.12.21 Spill	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	10/29/2021 6:12:36PM

## Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2144042-BLK1)

Prepared: 10/28/21 Analyzed: 10/28/21

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.64		8.00		95.5	70-130			

## LCS (2144042-BS1)

Prepared: 10/28/21 Analyzed: 10/28/21

Benzene	4.30	0.0250	5.00		85.9	70-130			
Ethylbenzene	4.25	0.0250	5.00		85.1	70-130			
Toluene	4.40	0.0250	5.00		88.0	70-130			
o-Xylene	4.36	0.0250	5.00		87.3	70-130			
p,m-Xylene	8.67	0.0500	10.0		86.7	70-130			
Total Xylenes	13.0	0.0250	15.0		86.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.99		8.00		99.8	70-130			

## LCS Dup (2144042-BSD1)

Prepared: 10/28/21 Analyzed: 10/28/21

Benzene	4.72	0.0250	5.00		94.5	70-130	9.44	20	
Ethylbenzene	4.65	0.0250	5.00		93.0	70-130	8.85	20	
Toluene	4.81	0.0250	5.00		96.3	70-130	8.96	20	
o-Xylene	4.78	0.0250	5.00		95.5	70-130	9.02	20	
p,m-Xylene	9.45	0.0500	10.0		94.5	70-130	8.63	20	
Total Xylenes	14.2	0.0250	15.0		94.9	70-130	8.76	20	
Surrogate: 4-Bromochlorobenzene-PID	7.89		8.00		98.7	70-130			



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	NBL 4-15 SWD 6.12.21 Spill	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	10/29/2021 6:12:36PM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2144042-BLK1)

Prepared: 10/28/21 Analyzed: 10/28/21

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.35		8.00		91.9	70-130			

## LCS (2144042-BS2)

Prepared: 10/28/21 Analyzed: 10/28/21

Gasoline Range Organics (C6-C10)	46.5	20.0	50.0		93.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.35		8.00		91.9	70-130			

## LCS Dup (2144042-BSD2)

Prepared: 10/28/21 Analyzed: 10/28/21

Gasoline Range Organics (C6-C10)	46.8	20.0	50.0		93.7	70-130	0.618	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.57		8.00		94.6	70-130			



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	NBL 4-15 SWD 6.12.21 Spill	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	10/29/2021 6:12:36PM

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2144041-BLK1)

Prepared: 10/27/21 Analyzed: 10/28/21

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.9		50.0		106	50-200			

## LCS (2144041-BS1)

Prepared: 10/27/21 Analyzed: 10/29/21

Diesel Range Organics (C10-C28)	526	25.0	500		105	38-132			
Surrogate: n-Nonane	51.2		50.0		102	50-200			

## Matrix Spike (2144041-MS1)

Source: E110115-01

Prepared: 10/27/21 Analyzed: 10/29/21

Diesel Range Organics (C10-C28)	577	25.0	500	41.6	107	38-132			
Surrogate: n-Nonane	51.9		50.0		104	50-200			

## Matrix Spike Dup (2144041-MSD1)

Source: E110115-01

Prepared: 10/27/21 Analyzed: 10/29/21

Diesel Range Organics (C10-C28)	572	25.0	500	41.6	106	38-132	0.851	20	
Surrogate: n-Nonane	51.3		50.0		103	50-200			





## QC Summary Data

Kaiser Francis Oil Company	Project Name:	NBL 4-15 SWD 6.12.21 Spill	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	10/29/2021 6:12:36PM

## Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2144033-BLK1)

Prepared: 10/28/21 Analyzed: 10/28/21

Chloride	ND	20.0							
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## LCS (2144033-BS1)

Prepared: 10/28/21 Analyzed: 10/28/21

Chloride	243	20.0	250		97.4	90-110			
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## LCS Dup (2144033-BSD1)

Prepared: 10/28/21 Analyzed: 10/28/21

Chloride	245	20.0	250		97.9	90-110	0.508	20	
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## QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

Kaiser Francis Oil Company	Project Name:	NBL 4-15 SWD 6.12.21 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	10/29/21 18:12

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



## Chain of Custody

Page 1 of 1

Client: KFC  
 Project: NBL-4-15 SWD 6.12.21 spill  
 Project Manager: ASHLEY GIOVENGO  
 Address: 1224 Standpipe Rd  
 City, State, Zip: Carlsbad NM 88220  
 Phone: 505-382-1211  
 Email: ashley.giovengo@wescominc.com  
 Report due by:

Bill To  
 Attention: wescom Inc  
 Address: 1224 Standpipe Rd  
 City, State, Zip: Carlsbad NM 88220  
 Phone: 505-382-1211  
 Email: ashley.giovengo@wescominc.com

Lab Use Only										TAT				EPA Program	
Lab WO#		Job Number								1D	2D	3D	Standard	CWA	SDWA
E110115		20220001											X		
Analysis and Method															
DRO/RO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0					BDOC NM	BDOC TX				
										X					
Remarks															

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number
220	10-18-21	S	1	CONF01-0'	1
223				CONF02-0'	2
1230				CONF03-0'	3
1234				CONF04-0'	4
1554				CONF05-0'	5
1551				CONF06-0'	6
1546				CONF07-0'	7
1532				CONF09-0'	8
1528				CONF10 - wall	9
1521				CONF11-0'	10

Additional Instructions: Project has been split into two reports as follows:  
E110115 - COC pages 1 and 2 ; E110116 - COC Pages 3 and 4

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by:

Relinquished by: (Signature) Katharina Bearis Date 10/21/21 Time 1032  
 Relinquished by: (Signature) \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_  
 Relinquished by: (Signature) \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

Received by: (Signature) [Signature] Date 10-21-21 Time 10:32  
 Received by: (Signature) [Signature] Date 10/24/21 Time 5:30 PM  
 Received by: (Signature) \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Received on ice: Y N

T1 \_\_\_\_\_ T2 \_\_\_\_\_ T3 \_\_\_\_\_

AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



envirotech



## Chain of Custody

Page 2 of 2

Client: KFOC  
 Project: NBL 4-15 SWP 6.12.21 spill  
 Project Manager: Ashley Giovenco  
 Address: 1224 Standpipe Rd  
 City, State, Zip: Carlsbad NM 88220  
 Phone: 505-382-1211  
 Email: ashley.giovenco@wqcominc.com  
 Report due by:

Bill To  
 Attention: Wqcom Inc  
 Address: 1224 Standpipe Rd  
 City, State, Zip: Carlsbad NM 88220  
 Phone: 505-382-1211  
 Email: ashley.giovenco@wqcominc.com

Lab Use Only										TAT				EPA Program	
Lab WO#		Job Number		1D	2D	3D	Standard		CWA	SDWA					
E110115		2022-0001					X								
Analysis and Method										RCRA					
DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC NM	BGDOC TX	State					
										NM	CO				
								X							
										UT	AZ				
										TX					
Remarks															

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number
5 18	10-18-21	S	1	CONF12	11
5 15				CONF13	12
15 12				CONF14	13
9 15	10-19-21			CONF16	14
14 55	10-18-21			CONF17	15
14 50				CONF18	16
14 43				CONF19	17
14 40				CONF20	18
14 35				CONF21	19
14 31				CONF22	20

Additional Instructions: Project has been split into two reports as follows:  
E110115-COC pages 1 and 2; E110116-COC pages 3 and 4

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by:

Relinquished by: (Signature)

Date

Time

Relinquished by: (Signature)

Date

Time

Relinquished by: (Signature)

Date

Time

Received by: (Signature)

Date

Time

Received by: (Signature)

Date

Time

Received by: (Signature)

Date

Time

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Received on ice: Y N

T1 T2 T3

AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



envirotech

## Envirotech Analytical Laboratory

Printed: 10/26/2021 6:37:28AM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Kaiser Francis Oil Company	Date Received:	10/24/21 17:30	Work Order ID:	E110115
Phone:	(505) 382-1211	Date Logged In:	10/24/21 17:47	Logged In By:	Alexa Michaels
Email:	ashley.giovengo@wescominc.com	Due Date:	10/28/21 17:00 (3 day TAT)		

**Chain of Custody (COC)**

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: Courier**Comments/Resolution****Sample Turn Around Time (TAT)**

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

**Sample Cooler**

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

**Sample Container**

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

**Field Label**

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? Yes

**Sample Preservation**

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

**Multiphase Sample Matrix**

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

**Subcontract Laboratory**

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

**Client Instruction**

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.



Report to:  
Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Kaiser Francis Oil Company

Project Name: NBL 4-15 SWD 6.12.21 Spill

Work Order: E110116

Job Number: 21022-0001

Received: 10/24/2021

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
10/29/21

5796 U.S. Hwy 64  
Farmington, NM 87401

Phone: (505) 632-1881  
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.  
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.  
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.  
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.  
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.  
Envirotech Inc. holds the NM SDWA certification for data reported. (Lab #NM00979)

Date Reported: 10/29/21

Ashley Giovengo  
1224 Standpipe Rd  
Carlsbad, NM 88220



Project Name: NBL 4-15 SWD 6.12.21 Spill  
Workorder: E110116  
Date Received: 10/24/2021 5:30:00PM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/24/2021 5:30:00PM, under the Project Name: NBL 4-15 SWD 6.12.21 Spill.

The analytical test results summarized in this report with the Project Name: NBL 4-15 SWD 6.12.21 Spill apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

**Walter Hinchman**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
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**Alexa Michaels**  
Sample Custody Officer  
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**West Texas Midland/Odessa Area**  
**Rayny Hagan**  
Technical Representative  
Office: 505-421-LABS(5227)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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## Sample Summary

Kaiser Francis Oil Company	Project Name:	NBL 4-15 SWD 6.12.21 Spill	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	10/29/21 09:36

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CONF 23-0'	E110116-01A	Soil	10/18/21	10/24/21	Glass Jar, 4 oz.
CONF 24-0'	E110116-02A	Soil	10/18/21	10/24/21	Glass Jar, 4 oz.
CONF 25-0'	E110116-03A	Soil	10/18/21	10/24/21	Glass Jar, 4 oz.
CONF 26-0'	E110116-04A	Soil	10/18/21	10/24/21	Glass Jar, 4 oz.
CONF 27-0'	E110116-05A	Soil	10/18/21	10/24/21	Glass Jar, 4 oz.
CONF 28-0'	E110116-06A	Soil	10/18/21	10/24/21	Glass Jar, 4 oz.
CONF 29-wall	E110116-07A	Soil	10/19/21	10/24/21	Glass Jar, 4 oz.
CONF 30-wall	E110116-08A	Soil	10/19/21	10/24/21	Glass Jar, 4 oz.
CONF 31-wall	E110116-09A	Soil	10/19/21	10/24/21	Glass Jar, 4 oz.
CONF 32-wall	E110116-10A	Soil	10/19/21	10/24/21	Glass Jar, 4 oz.
CONF 33-wall	E110116-11A	Soil	10/19/21	10/24/21	Glass Jar, 4 oz.
CONF 15-0'	E110116-12A	Soil	10/18/21	10/24/21	Glass Jar, 4 oz.
CONF 08-0'	E110116-13A	Soil	10/18/21	10/24/21	Glass Jar, 4 oz.



## Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: NBL 4-15 SWD 6.12.21 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	Reported: 10/29/2021 9:36:48AM
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## CONF 23-0'

## E110116-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2144022	
Benzene	ND	0.0250	1	10/26/21	10/27/21	
Ethylbenzene	ND	0.0250	1	10/26/21	10/27/21	
Toluene	ND	0.0250	1	10/26/21	10/27/21	
o-Xylene	ND	0.0250	1	10/26/21	10/27/21	
p,m-Xylene	ND	0.0500	1	10/26/21	10/27/21	
Total Xylenes	ND	0.0250	1	10/26/21	10/27/21	
Surrogate: 4-Bromochlorobenzene-PID	96.0 %	70-130		10/26/21	10/27/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2144022	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/26/21	10/27/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.5 %	70-130		10/26/21	10/27/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2144040	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/27/21	10/28/21	
Oil Range Organics (C28-C36)	ND	50.0	1	10/27/21	10/28/21	
Surrogate: n-Nonane	112 %	50-200		10/27/21	10/28/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2144023	
Chloride	354	20.0	1	10/26/21	10/27/21	





## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: NBL 4-15 SWD 6.12.21 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
10/29/2021 9:36:48AM

CONF 24-0'

E110116-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2144022	
Benzene	ND	0.0250	1	10/26/21	10/27/21	
Ethylbenzene	ND	0.0250	1	10/26/21	10/27/21	
Toluene	ND	0.0250	1	10/26/21	10/27/21	
o-Xylene	ND	0.0250	1	10/26/21	10/27/21	
p,m-Xylene	ND	0.0500	1	10/26/21	10/27/21	
Total Xylenes	ND	0.0250	1	10/26/21	10/27/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.0 %	70-130		10/26/21	10/27/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2144022	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/26/21	10/27/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.6 %	70-130		10/26/21	10/27/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2144040	
Diesel Range Organics (C10-C28)	37.5	25.0	1	10/27/21	10/28/21	
Oil Range Organics (C28-C36)	54.1	50.0	1	10/27/21	10/28/21	
<i>Surrogate: n-Nonane</i>						
	116 %	50-200		10/27/21	10/28/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2144023	
Chloride	2570	400	20	10/26/21	10/27/21	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: NBL 4-15 SWD 6.12.21 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
10/29/2021 9:36:48AM

CONF 25-0'

E110116-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2144022	
Benzene	ND	0.0250	1	10/26/21	10/27/21	
Ethylbenzene	ND	0.0250	1	10/26/21	10/27/21	
Toluene	ND	0.0250	1	10/26/21	10/27/21	
o-Xylene	ND	0.0250	1	10/26/21	10/27/21	
p,m-Xylene	ND	0.0500	1	10/26/21	10/27/21	
Total Xylenes	ND	0.0250	1	10/26/21	10/27/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	97.1 %	70-130		10/26/21	10/27/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2144022	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/26/21	10/27/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	92.6 %	70-130		10/26/21	10/27/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2144040	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/27/21	10/28/21	
Oil Range Organics (C28-C36)	ND	50.0	1	10/27/21	10/28/21	
<i>Surrogate: n-Nonane</i>	117 %	50-200		10/27/21	10/28/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2144023	
Chloride	689	400	20	10/26/21	10/27/21	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: NBL 4-15 SWD 6.12.21 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
10/29/2021 9:36:48AM

CONF 26-0'

E110116-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2144022
Benzene	ND	0.0250	1	10/26/21	10/27/21	
Ethylbenzene	ND	0.0250	1	10/26/21	10/27/21	
Toluene	ND	0.0250	1	10/26/21	10/27/21	
o-Xylene	ND	0.0250	1	10/26/21	10/27/21	
p,m-Xylene	ND	0.0500	1	10/26/21	10/27/21	
Total Xylenes	ND	0.0250	1	10/26/21	10/27/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.0 %	70-130		10/26/21	10/27/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2144022
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/26/21	10/27/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.2 %	70-130		10/26/21	10/27/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2144040
Diesel Range Organics (C10-C28)	ND	25.0	1	10/27/21	10/28/21	
Oil Range Organics (C28-C36)	ND	50.0	1	10/27/21	10/28/21	
<i>Surrogate: n-Nonane</i>						
	113 %	50-200		10/27/21	10/28/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2144023
Chloride	7730	1000	50	10/26/21	10/27/21	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: NBL 4-15 SWD 6.12.21 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
10/29/2021 9:36:48AM

CONF 27-0'

E110116-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2144022
Benzene	ND	0.0250	1	10/26/21	10/27/21	
Ethylbenzene	ND	0.0250	1	10/26/21	10/27/21	
Toluene	ND	0.0250	1	10/26/21	10/27/21	
o-Xylene	ND	0.0250	1	10/26/21	10/27/21	
p,m-Xylene	ND	0.0500	1	10/26/21	10/27/21	
Total Xylenes	ND	0.0250	1	10/26/21	10/27/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		97.6 %	70-130	10/26/21	10/27/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2144022
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/26/21	10/27/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		89.3 %	70-130	10/26/21	10/27/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2144040
Diesel Range Organics (C10-C28)	ND	25.0	1	10/27/21	10/28/21	
Oil Range Organics (C28-C36)	ND	50.0	1	10/27/21	10/28/21	
<i>Surrogate: n-Nonane</i>						
		112 %	50-200	10/27/21	10/28/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2144023
Chloride	2200	200	10	10/26/21	10/27/21	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: NBL 4-15 SWD 6.12.21 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
10/29/2021 9:36:48AM

CONF 28-0'

E110116-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2144022	
Benzene	ND	0.0250	1	10/26/21	10/27/21	
Ethylbenzene	ND	0.0250	1	10/26/21	10/27/21	
Toluene	ND	0.0250	1	10/26/21	10/27/21	
o-Xylene	ND	0.0250	1	10/26/21	10/27/21	
p,m-Xylene	ND	0.0500	1	10/26/21	10/27/21	
Total Xylenes	ND	0.0250	1	10/26/21	10/27/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	10/26/21	10/27/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2144022	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/26/21	10/27/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		88.9 %	70-130	10/26/21	10/27/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2144040	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/27/21	10/28/21	
Oil Range Organics (C28-C36)	ND	50.0	1	10/27/21	10/28/21	
<i>Surrogate: n-Nonane</i>						
		111 %	50-200	10/27/21	10/28/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2144023	
Chloride	1080	100	5	10/26/21	10/27/21	





## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: NBL 4-15 SWD 6.12.21 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
10/29/2021 9:36:48AM

## CONF 29-wall

## E110116-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>		mg/kg	mg/kg	Analyst: IY		Batch: 2144022
Benzene	ND	0.0250	1	10/26/21	10/27/21	
Ethylbenzene	ND	0.0250	1	10/26/21	10/27/21	
Toluene	ND	0.0250	1	10/26/21	10/27/21	
o-Xylene	ND	0.0250	1	10/26/21	10/27/21	
p,m-Xylene	ND	0.0500	1	10/26/21	10/27/21	
Total Xylenes	ND	0.0250	1	10/26/21	10/27/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.9 %	70-130	10/26/21	10/27/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>		mg/kg	mg/kg	Analyst: IY		Batch: 2144022
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/26/21	10/27/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		87.5 %	70-130	10/26/21	10/27/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>		mg/kg	mg/kg	Analyst: JL		Batch: 2144040
Diesel Range Organics (C10-C28)	ND	25.0	1	10/27/21	10/28/21	
Oil Range Organics (C28-C36)	ND	50.0	1	10/27/21	10/28/21	
<i>Surrogate: n-Nonane</i>		111 %	50-200	10/27/21	10/28/21	
<b>Anions by EPA 300.0/9056A</b>		mg/kg	mg/kg	Analyst: IY		Batch: 2144023
Chloride	ND	20.0	1	10/26/21	10/27/21	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: NBL 4-15 SWD 6.12.21 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
10/29/2021 9:36:48AM

## CONF 30-wall

## E110116-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2144022
Benzene	ND	0.0250	1	10/26/21	10/27/21	
Ethylbenzene	ND	0.0250	1	10/26/21	10/27/21	
Toluene	ND	0.0250	1	10/26/21	10/27/21	
o-Xylene	ND	0.0250	1	10/26/21	10/27/21	
p,m-Xylene	ND	0.0500	1	10/26/21	10/27/21	
Total Xylenes	ND	0.0250	1	10/26/21	10/27/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.5 %	70-130		10/26/21	10/27/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2144022
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/26/21	10/27/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.9 %	70-130		10/26/21	10/27/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2144040
Diesel Range Organics (C10-C28)	ND	25.0	1	10/27/21	10/28/21	
Oil Range Organics (C28-C36)	53.0	50.0	1	10/27/21	10/28/21	
<i>Surrogate: n-Nonane</i>						
	114 %	50-200		10/27/21	10/28/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2144023
Chloride	550	100	5	10/26/21	10/27/21	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: NBL 4-15 SWD 6.12.21 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
10/29/2021 9:36:48AM

## CONF 31-wall

## E110116-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2144022
Benzene	ND	0.0250	1	10/26/21	10/27/21	
Ethylbenzene	ND	0.0250	1	10/26/21	10/27/21	
Toluene	ND	0.0250	1	10/26/21	10/27/21	
o-Xylene	ND	0.0250	1	10/26/21	10/27/21	
p,m-Xylene	ND	0.0500	1	10/26/21	10/27/21	
Total Xylenes	ND	0.0250	1	10/26/21	10/27/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.3 %	70-130		10/26/21	10/27/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2144022
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/26/21	10/27/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.6 %	70-130		10/26/21	10/27/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2144040
Diesel Range Organics (C10-C28)	ND	25.0	1	10/27/21	10/28/21	
Oil Range Organics (C28-C36)	ND	50.0	1	10/27/21	10/28/21	
<i>Surrogate: n-Nonane</i>						
	110 %	50-200		10/27/21	10/28/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2144023
Chloride	1520	40.0	2	10/26/21	10/27/21	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: NBL 4-15 SWD 6.12.21 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
10/29/2021 9:36:48AM

## CONF 32-wall

## E110116-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2144022
Benzene	ND	0.0250	1	10/26/21	10/27/21	
Ethylbenzene	ND	0.0250	1	10/26/21	10/27/21	
Toluene	ND	0.0250	1	10/26/21	10/27/21	
o-Xylene	ND	0.0250	1	10/26/21	10/27/21	
p,m-Xylene	ND	0.0500	1	10/26/21	10/27/21	
Total Xylenes	ND	0.0250	1	10/26/21	10/27/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.3 %	70-130		10/26/21	10/27/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2144022
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/26/21	10/27/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.4 %	70-130		10/26/21	10/27/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2144040
Diesel Range Organics (C10-C28)	68.7	25.0	1	10/27/21	10/28/21	
Oil Range Organics (C28-C36)	98.6	50.0	1	10/27/21	10/28/21	
<i>Surrogate: n-Nonane</i>						
	114 %	50-200		10/27/21	10/28/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2144023
Chloride	946	400	20	10/26/21	10/27/21	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: NBL 4-15 SWD 6.12.21 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
10/29/2021 9:36:48AM

## CONF 33-wall

## E110116-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2144022	
Benzene	ND	0.0250	1	10/26/21	10/27/21	
Ethylbenzene	ND	0.0250	1	10/26/21	10/27/21	
Toluene	ND	0.0250	1	10/26/21	10/27/21	
o-Xylene	ND	0.0250	1	10/26/21	10/27/21	
p,m-Xylene	ND	0.0500	1	10/26/21	10/27/21	
Total Xylenes	ND	0.0250	1	10/26/21	10/27/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		104 %	70-130	10/26/21	10/27/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2144022	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/26/21	10/27/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		103 %	70-130	10/26/21	10/27/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2144040	
Diesel Range Organics (C10-C28)	56.1	25.0	1	10/27/21	10/28/21	
Oil Range Organics (C28-C36)	80.8	50.0	1	10/27/21	10/28/21	
<i>Surrogate: n-Nonane</i>		113 %	50-200	10/27/21	10/28/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2144023	
Chloride	4060	1000	50	10/26/21	10/27/21	





## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: NBL 4-15 SWD 6.12.21 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
10/29/2021 9:36:48AM

## CONF 15-0'

## E110116-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2144022
Benzene	ND	0.0250	1	10/26/21	10/27/21	
Ethylbenzene	ND	0.0250	1	10/26/21	10/27/21	
Toluene	ND	0.0250	1	10/26/21	10/27/21	
o-Xylene	ND	0.0250	1	10/26/21	10/27/21	
p,m-Xylene	ND	0.0500	1	10/26/21	10/27/21	
Total Xylenes	ND	0.0250	1	10/26/21	10/27/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	10/26/21	10/27/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2144022
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/26/21	10/27/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		102 %	70-130	10/26/21	10/27/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2144040
Diesel Range Organics (C10-C28)	ND	25.0	1	10/27/21	10/28/21	
Oil Range Organics (C28-C36)	ND	50.0	1	10/27/21	10/28/21	
<i>Surrogate: n-Nonane</i>						
		114 %	50-200	10/27/21	10/28/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2144023
Chloride	1730	200	10	10/26/21	10/27/21	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: NBL 4-15 SWD 6.12.21 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
10/29/2021 9:36:48AM

CONF 08-0'

E110116-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2144022	
Benzene	ND	0.0250	1	10/26/21	10/27/21	
Ethylbenzene	ND	0.0250	1	10/26/21	10/27/21	
Toluene	ND	0.0250	1	10/26/21	10/27/21	
o-Xylene	ND	0.0250	1	10/26/21	10/27/21	
p,m-Xylene	ND	0.0500	1	10/26/21	10/27/21	
Total Xylenes	ND	0.0250	1	10/26/21	10/27/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	10/26/21	10/27/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2144022	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/26/21	10/27/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		101 %	70-130	10/26/21	10/27/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2144040	
Diesel Range Organics (C10-C28)	28.4	25.0	1	10/27/21	10/28/21	
Oil Range Organics (C28-C36)	61.0	50.0	1	10/27/21	10/28/21	
<i>Surrogate: n-Nonane</i>						
		114 %	50-200	10/27/21	10/28/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2144023	
Chloride	2210	40.0	2	10/26/21	10/27/21	



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	NBL 4-15 SWD 6.12.21 Spill	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	10/29/2021 9:36:48AM

## Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2144022-BLK1)

Prepared: 10/26/21 Analyzed: 10/27/21

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.82		8.00		97.8	70-130			

## LCS (2144022-BS1)

Prepared: 10/26/21 Analyzed: 10/27/21

Benzene	4.37	0.0250	5.00		87.4	70-130			
Ethylbenzene	4.25	0.0250	5.00		85.1	70-130			
Toluene	4.43	0.0250	5.00		88.7	70-130			
o-Xylene	4.37	0.0250	5.00		87.4	70-130			
p,m-Xylene	8.66	0.0500	10.0		86.6	70-130			
Total Xylenes	13.0	0.0250	15.0		86.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.96		8.00		99.5	70-130			

## LCS Dup (2144022-BSD1)

Prepared: 10/26/21 Analyzed: 10/27/21

Benzene	4.81	0.0250	5.00		96.1	70-130	9.55	20	
Ethylbenzene	4.66	0.0250	5.00		93.3	70-130	9.23	20	
Toluene	4.86	0.0250	5.00		97.3	70-130	9.23	20	
o-Xylene	4.80	0.0250	5.00		96.0	70-130	9.36	20	
p,m-Xylene	9.49	0.0500	10.0		94.9	70-130	9.18	20	
Total Xylenes	14.3	0.0250	15.0		95.3	70-130	9.24	20	
Surrogate: 4-Bromochlorobenzene-PID	7.90		8.00		98.8	70-130			



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	NBL 4-15 SWD 6.12.21 Spill	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	10/29/2021 9:36:48AM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2144022-BLK1)

Prepared: 10/26/21 Analyzed: 10/27/21

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.25		8.00		90.7	70-130			

## LCS (2144022-BS2)

Prepared: 10/26/21 Analyzed: 10/27/21

Gasoline Range Organics (C6-C10)	47.5	20.0	50.0		94.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.26		8.00		90.8	70-130			

## LCS Dup (2144022-BSD2)

Prepared: 10/26/21 Analyzed: 10/27/21

Gasoline Range Organics (C6-C10)	48.2	20.0	50.0		96.5	70-130	1.60	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.27		8.00		90.9	70-130			



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	NBL 4-15 SWD 6.12.21 Spill	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	10/29/2021 9:36:48AM

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2144040-BLK1)

Prepared: 10/27/21 Analyzed: 10/28/21

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	55.5		50.0		111	50-200			

## LCS (2144040-BS1)

Prepared: 10/27/21 Analyzed: 10/28/21

Diesel Range Organics (C10-C28)	479	25.0	500		95.9	38-132			
Surrogate: n-Nonane	56.6		50.0		113	50-200			

## Matrix Spike (2144040-MS1)

Source: E110116-01

Prepared: 10/27/21 Analyzed: 10/28/21

Diesel Range Organics (C10-C28)	480	25.0	500	ND	96.0	38-132			
Surrogate: n-Nonane	55.3		50.0		111	50-200			

## Matrix Spike Dup (2144040-MSD1)

Source: E110116-01

Prepared: 10/27/21 Analyzed: 10/28/21

Diesel Range Organics (C10-C28)	479	25.0	500	ND	95.7	38-132	0.274	20	
Surrogate: n-Nonane	54.2		50.0		108	50-200			





## QC Summary Data

Kaiser Francis Oil Company	Project Name:	NBL 4-15 SWD 6.12.21 Spill	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	10/29/2021 9:36:48AM

## Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2144023-BLK1)

Prepared: 10/26/21 Analyzed: 10/27/21

Chloride	ND	20.0							
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## LCS (2144023-BS1)

Prepared: 10/26/21 Analyzed: 10/27/21

Chloride	245	20.0	250		98.1	90-110			
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## LCS Dup (2144023-BSD1)

Prepared: 10/26/21 Analyzed: 10/27/21

Chloride	244	20.0	250		97.6	90-110	0.474	20	
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## QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

Kaiser Francis Oil Company	Project Name:	NBL 4-15 SWD 6.12.21 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	10/29/21 09:36

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



## Chain of Custody

Client: KFC

Project: NBL 4-15 SWD 6-12-21 spill

Project Manager: Ashley Giovenago

Address: 1224 Standpipe Rd

City, State, Zip: Carlsbad NM 88220

Phone: 505-382-1211

Email: ashley.giovenago@wescaninc.com

Report due by:

Chain of Custody

Bill To

Attention: Wescan Inc

Address: 1224 Standpipe Rd

City, State, Zip: Carlsbad NM 88220

Phone: 505-382-1211

Email: ashley.giovenago@wescaninc.com

Lab Use Only

Lab WO# E110110

Job Number 21022-0001

TAT

1D 2D 3D Standard

EPA Program

CWA SDWA

RCRA

Analysis and Method

DRO/ORO by 8015

GRO/PRO by 8015

BTEX by 8021

VOC by 8260

Metals 6010

Chloride 3000

BDOC NM

BDOC TX

State

NM CO UT AZ TX

Remarks

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number
4 15	10-18-21	S	1	CONF23-0'	1
4 16				CONF24-0'	2
13 35				CONF25-0'	3
13 30				CONF26-0'	4
13 11				CONF27-0'	5
13 15				CONF28-0'	6
9 25	10-19-21			CONF29-wall	7
9 30				CONF30-wall	8
9 36				CONF31-wall	9
9 42				CONF32-wall	10

Additional Instructions: Project has been split into two reports as follows:

E110115-COC Pages 1 and 2 ; E110116-COC Pages 3 and 4

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Relinquished by: (Signature) Katharine Bonerdy

Date 10/21/21

Time 10:32

Relinquished by: (Signature)

Date

Time

Relinquished by: (Signature)

Date

Time

Received by: (Signature)

Date 10-21-21

Time 10:32

Received by: (Signature)

Date 10/24/21

Time 17:30

Received by: (Signature)

Date

Time

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Lab Use Only

Received on ice: Y N

T1

T2

T3

AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



# envirotech



## Chain of Custody

[illegible]

## Envirotech Analytical Laboratory

Printed: 10/26/2021 6:38:09AM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Kaiser Francis Oil Company	Date Received:	10/24/21 17:30	Work Order ID:	E110116
Phone:	(505) 382-1211	Date Logged In:	10/24/21 17:50	Logged In By:	Alexa Michaels
Email:	ashley.giovengo@wescominc.com	Due Date:	10/28/21 17:00 (3 day TAT)		

**Chain of Custody (COC)**

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: Courier**Comments/Resolution**

Project has been spit into 2 reports as follows:  
E110115-COC pages 1 and 2;  
E110116-COC pages 3 and 4

**Sample Turn Around Time (TAT)**

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

**Sample Cooler**

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

**Sample Container**

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

**Field Label**

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? Yes

**Sample Preservation**

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

**Multiphase Sample Matrix**

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

**Subcontract Laboratory**

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

**Client Instruction**

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.



Report to:  
Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Kaiser Francis Oil Company

Project Name: NBL Unit 4-15 SWD 06.12.2021  
Spill

Work Order: E202069

Job Number: 21022-0001

Received: 2/12/2022

Revision: 5

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
2/23/22

5796 U.S. Hwy 64  
Farmington, NM 87401

Phone: (505) 632-1881  
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.  
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.  
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.  
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.  
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.  
Envirotech Inc. holds the NM SDWA certification for data reported. (Lab #NM00979)

Date Reported: 2/23/22



Ashley Giovengo  
1224 Standpipe Rd  
Carlsbad, NM 88220

Project Name: NBL Unit 4-15 SWD 06.12.2021 Spill  
Workorder: E202069  
Date Received: 2/12/2022 11:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/12/2022 11:00:00AM, under the Project Name: NBL Unit 4-15 SWD 06.12.2021 Spill.

The analytical test results summarized in this report with the Project Name: NBL Unit 4-15 SWD 06.12.2021 Spill apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

**Walter Hinchman**  
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**Rayny Hagan**  
Technical Representative  
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## Sample Summary

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: NBL Unit 4-15 SWD 06.12.2021 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	Reported: 02/23/22 13:08
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CONF01A-4'	E202069-01A	Soil	02/09/22	02/12/22	Glass Jar, 4 oz.
CONF02A-4'	E202069-02A	Soil	02/09/22	02/12/22	Glass Jar, 4 oz.
CONF03A-4'	E202069-03A	Soil	02/09/22	02/12/22	Glass Jar, 4 oz.
CONF04A-4'	E202069-04A	Soil	02/09/22	02/12/22	Glass Jar, 4 oz.
CONF06A-1'	E202069-05A	Soil	02/09/22	02/12/22	Glass Jar, 4 oz.
CONF08A-4'	E202069-06A	Soil	02/10/22	02/12/22	Glass Jar, 4 oz.
CONF09A-4'	E202069-07A	Soil	02/09/22	02/12/22	Glass Jar, 4 oz.
CONF10A Wall -1'	E202069-08A	Soil	02/09/22	02/12/22	Glass Jar, 4 oz.
CONF12A-4'	E202069-09A	Soil	02/10/22	02/12/22	Glass Jar, 4 oz.
CONF13A-4'	E202069-10A	Soil	02/09/22	02/12/22	Glass Jar, 4 oz.
CONF14A-4'	E202069-11A	Soil	02/09/22	02/12/22	Glass Jar, 4 oz.
CONF16A-4'	E202069-12A	Soil	02/10/22	02/12/22	Glass Jar, 4 oz.
CONF17A-4'	E202069-13A	Soil	02/10/22	02/12/22	Glass Jar, 4 oz.
CONF18A-4'	E202069-14A	Soil	02/10/22	02/12/22	Glass Jar, 4 oz.
CONF19A-4'	E202069-15A	Soil	02/10/22	02/12/22	Glass Jar, 4 oz.
CONF20A-4'	E202069-16A	Soil	02/10/22	02/12/22	Glass Jar, 4 oz.
CONF21A-4'	E202069-17A	Soil	02/10/22	02/12/22	Glass Jar, 4 oz.
CONF22A-4'	E202069-18A	Soil	02/10/22	02/12/22	Glass Jar, 4 oz.
CONF24A-4'	E202069-19A	Soil	02/10/22	02/12/22	Glass Jar, 4 oz.
CONF25A-4'	E202069-20A	Soil	02/10/22	02/12/22	Glass Jar, 4 oz.
CONF26A-4'	E202069-21A	Soil	02/09/22	02/12/22	Glass Jar, 4 oz.
CONF27A-4'	E202069-22A	Soil	02/09/22	02/12/22	Glass Jar, 4 oz.
CONF28A-4'	E202069-23A	Soil	02/09/22	02/12/22	Glass Jar, 4 oz.
CONF31A Wall - 1'	E202069-24A	Soil	02/10/22	02/12/22	Glass Jar, 4 oz.
CONF32A Wall -3'	E202069-25A	Soil	02/09/22	02/12/22	Glass Jar, 4 oz.
CONF33A Wall -3'	E202069-26A	Soil	02/09/22	02/12/22	Glass Jar, 4 oz.





## Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: NBL Unit 4-15 SWD 06.12.2021 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 2/23/2022 1:08:35PM
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## CONF01A-4'

## E202069-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2208054	
Benzene	ND	0.0250	1	02/16/22	02/18/22	
Ethylbenzene	ND	0.0250	1	02/16/22	02/18/22	
Toluene	ND	0.0250	1	02/16/22	02/18/22	
o-Xylene	ND	0.0250	1	02/16/22	02/18/22	
p,m-Xylene	ND	0.0500	1	02/16/22	02/18/22	
Total Xylenes	ND	0.0250	1	02/16/22	02/18/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	93.5 %	70-130		02/16/22	02/18/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2208054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/16/22	02/18/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	106 %	70-130		02/16/22	02/18/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2208085	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/17/22	02/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	02/17/22	02/20/22	
<i>Surrogate: n-Nonane</i>	113 %	50-200		02/17/22	02/20/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2208074	
Chloride	1390	20.0	1	02/17/22	02/17/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: NBL Unit 4-15 SWD 06.12.2021 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
2/23/2022 1:08:35PM

CONF02A-4'

E202069-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2208054	
Benzene	ND	0.0250	1	02/15/22	02/18/22	
Ethylbenzene	ND	0.0250	1	02/15/22	02/18/22	
Toluene	ND	0.0250	1	02/15/22	02/18/22	
o-Xylene	ND	0.0250	1	02/15/22	02/18/22	
p,m-Xylene	ND	0.0500	1	02/15/22	02/18/22	
Total Xylenes	ND	0.0250	1	02/15/22	02/18/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	93.5 %	70-130		02/15/22	02/18/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2208054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/22	02/18/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	107 %	70-130		02/15/22	02/18/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2208085	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/17/22	02/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	02/17/22	02/20/22	
<i>Surrogate: n-Nonane</i>	117 %	50-200		02/17/22	02/20/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2208074	
Chloride	1060	20.0	1	02/17/22	02/17/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: NBL Unit 4-15 SWD 06.12.2021 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
2/23/2022 1:08:35PM

CONF03A-4'

E202069-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2208054	
Benzene	ND	0.0250	1	02/15/22	02/18/22	
Ethylbenzene	ND	0.0250	1	02/15/22	02/18/22	
Toluene	ND	0.0250	1	02/15/22	02/18/22	
o-Xylene	ND	0.0250	1	02/15/22	02/18/22	
p,m-Xylene	ND	0.0500	1	02/15/22	02/18/22	
Total Xylenes	ND	0.0250	1	02/15/22	02/18/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	95.6 %	70-130		02/15/22	02/18/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2208054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/22	02/18/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	107 %	70-130		02/15/22	02/18/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2208085	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/17/22	02/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	02/17/22	02/20/22	
<i>Surrogate: n-Nonane</i>	112 %	50-200		02/17/22	02/20/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2208074	
Chloride	1020	20.0	1	02/17/22	02/17/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: NBL Unit 4-15 SWD 06.12.2021 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
2/23/2022 1:08:35PM

CONF04A-4'

E202069-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2208054	
Benzene	ND	0.0250	1	02/15/22	02/18/22	
Ethylbenzene	ND	0.0250	1	02/15/22	02/18/22	
Toluene	ND	0.0250	1	02/15/22	02/18/22	
o-Xylene	ND	0.0250	1	02/15/22	02/18/22	
p,m-Xylene	ND	0.0500	1	02/15/22	02/18/22	
Total Xylenes	ND	0.0250	1	02/15/22	02/18/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		94.8 %	70-130	02/15/22	02/18/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2208054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/22	02/18/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		106 %	70-130	02/15/22	02/18/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2208085	
Diesel Range Organics (C10-C28)	30.9	25.0	1	02/17/22	02/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	02/17/22	02/20/22	
<i>Surrogate: n-Nonane</i>		105 %	50-200	02/17/22	02/20/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2208074	
Chloride	2090	40.0	2	02/17/22	02/17/22	



## Sample Data

Kaiser Francis Oil Company	Project Name:	NBL Unit 4-15 SWD 06.12.2021 Spill	<b>Reported:</b> 2/23/2022 1:08:35PM
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

CONF06A-1'

E202069-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2208054	
Benzene	ND	0.0250	1	02/15/22	02/18/22	
Ethylbenzene	ND	0.0250	1	02/15/22	02/18/22	
Toluene	ND	0.0250	1	02/15/22	02/18/22	
o-Xylene	ND	0.0250	1	02/15/22	02/18/22	
p,m-Xylene	ND	0.0500	1	02/15/22	02/18/22	
Total Xylenes	ND	0.0250	1	02/15/22	02/18/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	93.8 %	70-130		02/15/22	02/18/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2208054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/22	02/18/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	106 %	70-130		02/15/22	02/18/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2208085	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/17/22	02/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	02/17/22	02/20/22	
<i>Surrogate: n-Nonane</i>	115 %	50-200		02/17/22	02/20/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2208074	
Chloride	226	20.0	1	02/17/22	02/17/22	





## Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: NBL Unit 4-15 SWD 06.12.2021 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 2/23/2022 1:08:35PM
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CONF08A-4'

E202069-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2208054	
Benzene	ND	0.0250	1	02/15/22	02/18/22	
Ethylbenzene	ND	0.0250	1	02/15/22	02/18/22	
Toluene	ND	0.0250	1	02/15/22	02/18/22	
o-Xylene	ND	0.0250	1	02/15/22	02/18/22	
p,m-Xylene	ND	0.0500	1	02/15/22	02/18/22	
Total Xylenes	ND	0.0250	1	02/15/22	02/18/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	94.9 %	70-130		02/15/22	02/18/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2208054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/22	02/18/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	107 %	70-130		02/15/22	02/18/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2208085	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/17/22	02/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	02/17/22	02/20/22	
<i>Surrogate: n-Nonane</i>	115 %	50-200		02/17/22	02/20/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2208074	
Chloride	784	20.0	1	02/17/22	02/17/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: NBL Unit 4-15 SWD 06.12.2021 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
2/23/2022 1:08:35PM

CONF09A-4'

E202069-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2208054	
Benzene	ND	0.0250	1	02/15/22	02/18/22	
Ethylbenzene	ND	0.0250	1	02/15/22	02/18/22	
Toluene	ND	0.0250	1	02/15/22	02/18/22	
o-Xylene	ND	0.0250	1	02/15/22	02/18/22	
p,m-Xylene	ND	0.0500	1	02/15/22	02/18/22	
Total Xylenes	ND	0.0250	1	02/15/22	02/18/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		93.7 %	70-130	02/15/22	02/18/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2208054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/22	02/18/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		106 %	70-130	02/15/22	02/18/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2208085	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/17/22	02/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	02/17/22	02/20/22	
<i>Surrogate: n-Nonane</i>		114 %	50-200	02/17/22	02/20/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2208074	
Chloride	1540	20.0	1	02/17/22	02/17/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: NBL Unit 4-15 SWD 06.12.2021 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
2/23/2022 1:08:35PM

## CONF10A Wall -1'

E202069-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2208054	
Benzene	ND	0.0250	1	02/15/22	02/18/22	
Ethylbenzene	ND	0.0250	1	02/15/22	02/18/22	
Toluene	ND	0.0250	1	02/15/22	02/18/22	
o-Xylene	ND	0.0250	1	02/15/22	02/18/22	
p,m-Xylene	ND	0.0500	1	02/15/22	02/18/22	
Total Xylenes	ND	0.0250	1	02/15/22	02/18/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	93.2 %	70-130		02/15/22	02/18/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2208054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/22	02/18/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	107 %	70-130		02/15/22	02/18/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2208085	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/17/22	02/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	02/17/22	02/20/22	
<i>Surrogate: n-Nonane</i>	114 %	50-200		02/17/22	02/20/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2208074	
Chloride	116	20.0	1	02/17/22	02/17/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: NBL Unit 4-15 SWD 06.12.2021 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
2/23/2022 1:08:35PM

## CONF12A-4'

## E202069-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2208054
Benzene	ND	0.0250	1	02/15/22	02/18/22	
Ethylbenzene	ND	0.0250	1	02/15/22	02/18/22	
Toluene	ND	0.0250	1	02/15/22	02/18/22	
o-Xylene	ND	0.0250	1	02/15/22	02/18/22	
p,m-Xylene	ND	0.0500	1	02/15/22	02/18/22	
Total Xylenes	ND	0.0250	1	02/15/22	02/18/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.6 %	70-130		02/15/22	02/18/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2208054
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/22	02/18/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	107 %	70-130		02/15/22	02/18/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2208085
Diesel Range Organics (C10-C28)	ND	25.0	1	02/17/22	02/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	02/17/22	02/20/22	
<i>Surrogate: n-Nonane</i>						
	118 %	50-200		02/17/22	02/20/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2208074
Chloride	658	20.0	1	02/17/22	02/17/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: NBL Unit 4-15 SWD 06.12.2021 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
2/23/2022 1:08:35PM

## CONF13A-4'

## E202069-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2208054	
Benzene	ND	0.0250	1	02/15/22	02/18/22	
Ethylbenzene	ND	0.0250	1	02/15/22	02/18/22	
Toluene	ND	0.0250	1	02/15/22	02/18/22	
o-Xylene	ND	0.0250	1	02/15/22	02/18/22	
p,m-Xylene	ND	0.0500	1	02/15/22	02/18/22	
Total Xylenes	ND	0.0250	1	02/15/22	02/18/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	92.7 %	70-130		02/15/22	02/18/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2208054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/22	02/18/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	107 %	70-130		02/15/22	02/18/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2208085	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/17/22	02/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	02/17/22	02/20/22	
<i>Surrogate: n-Nonane</i>	118 %	50-200		02/17/22	02/20/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2208074	
Chloride	851	20.0	1	02/17/22	02/17/22	





## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: NBL Unit 4-15 SWD 06.12.2021 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
2/23/2022 1:08:35PM

CONF14A-4'

E202069-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2208054	
Benzene	ND	0.0250	1	02/15/22	02/18/22	
Ethylbenzene	ND	0.0250	1	02/15/22	02/18/22	
Toluene	ND	0.0250	1	02/15/22	02/18/22	
o-Xylene	ND	0.0250	1	02/15/22	02/18/22	
p,m-Xylene	ND	0.0500	1	02/15/22	02/18/22	
Total Xylenes	ND	0.0250	1	02/15/22	02/18/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		93.0 %	70-130	02/15/22	02/18/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2208054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/22	02/18/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		107 %	70-130	02/15/22	02/18/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2208085	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/17/22	02/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	02/17/22	02/20/22	
<i>Surrogate: n-Nonane</i>		115 %	50-200	02/17/22	02/20/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2208074	
Chloride	442	20.0	1	02/17/22	02/17/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: NBL Unit 4-15 SWD 06.12.2021 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
2/23/2022 1:08:35PM

## CONF16A-4'

## E202069-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2208054
Benzene	ND	0.0250	1	02/15/22	02/18/22	
Ethylbenzene	ND	0.0250	1	02/15/22	02/18/22	
Toluene	ND	0.0250	1	02/15/22	02/18/22	
o-Xylene	ND	0.0250	1	02/15/22	02/18/22	
p,m-Xylene	ND	0.0500	1	02/15/22	02/18/22	
Total Xylenes	ND	0.0250	1	02/15/22	02/18/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		93.1 %	70-130	02/15/22	02/18/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2208054
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/22	02/18/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		107 %	70-130	02/15/22	02/18/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2208085
Diesel Range Organics (C10-C28)	ND	25.0	1	02/17/22	02/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	02/17/22	02/20/22	
<i>Surrogate: n-Nonane</i>						
		116 %	50-200	02/17/22	02/20/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2208074
Chloride	536	20.0	1	02/17/22	02/17/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: NBL Unit 4-15 SWD 06.12.2021 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
2/23/2022 1:08:35PM

CONF17A-4'

E202069-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2208054	
Benzene	ND	0.0250	1	02/15/22	02/18/22	
Ethylbenzene	ND	0.0250	1	02/15/22	02/18/22	
Toluene	ND	0.0250	1	02/15/22	02/18/22	
o-Xylene	ND	0.0250	1	02/15/22	02/18/22	
p,m-Xylene	ND	0.0500	1	02/15/22	02/18/22	
Total Xylenes	ND	0.0250	1	02/15/22	02/18/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	93.2 %	70-130		02/15/22	02/18/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2208054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/22	02/18/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	107 %	70-130		02/15/22	02/18/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2208085	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/17/22	02/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	02/17/22	02/20/22	
<i>Surrogate: n-Nonane</i>	114 %	50-200		02/17/22	02/20/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2208074	
Chloride	27.3	20.0	1	02/17/22	02/17/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: NBL Unit 4-15 SWD 06.12.2021 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
2/23/2022 1:08:35PM

## CONF18A-4'

## E202069-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2208054	
Benzene	ND	0.0250	1	02/15/22	02/18/22	
Ethylbenzene	ND	0.0250	1	02/15/22	02/18/22	
Toluene	ND	0.0250	1	02/15/22	02/18/22	
o-Xylene	ND	0.0250	1	02/15/22	02/18/22	
p,m-Xylene	ND	0.0500	1	02/15/22	02/18/22	
Total Xylenes	ND	0.0250	1	02/15/22	02/18/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		94.3 %	70-130	02/15/22	02/18/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2208054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/22	02/18/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		107 %	70-130	02/15/22	02/18/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2208085	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/17/22	02/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	02/17/22	02/20/22	
<i>Surrogate: n-Nonane</i>		112 %	50-200	02/17/22	02/20/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2208074	
Chloride	895	20.0	1	02/17/22	02/17/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: NBL Unit 4-15 SWD 06.12.2021 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
2/23/2022 1:08:35PM

## CONF19A-4'

## E202069-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2208054	
Benzene	ND	0.0250	1	02/15/22	02/18/22	
Ethylbenzene	ND	0.0250	1	02/15/22	02/18/22	
Toluene	ND	0.0250	1	02/15/22	02/18/22	
o-Xylene	ND	0.0250	1	02/15/22	02/18/22	
p,m-Xylene	ND	0.0500	1	02/15/22	02/18/22	
Total Xylenes	ND	0.0250	1	02/15/22	02/18/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	94.2 %	70-130		02/15/22	02/18/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2208054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/22	02/18/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	107 %	70-130		02/15/22	02/18/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2208085	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/17/22	02/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	02/17/22	02/20/22	
<i>Surrogate: n-Nonane</i>	121 %	50-200		02/17/22	02/20/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2208074	
Chloride	746	20.0	1	02/17/22	02/17/22	





## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: NBL Unit 4-15 SWD 06.12.2021 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
2/23/2022 1:08:35PM

CONF20A-4'

E202069-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2208054	
Benzene	ND	0.0250	1	02/15/22	02/18/22	
Ethylbenzene	ND	0.0250	1	02/15/22	02/18/22	
Toluene	ND	0.0250	1	02/15/22	02/18/22	
o-Xylene	ND	0.0250	1	02/15/22	02/18/22	
p,m-Xylene	ND	0.0500	1	02/15/22	02/18/22	
Total Xylenes	ND	0.0250	1	02/15/22	02/18/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	93.4 %	70-130		02/15/22	02/18/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2208054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/22	02/18/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	106 %	70-130		02/15/22	02/18/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2208085	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/17/22	02/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	02/17/22	02/20/22	
<i>Surrogate: n-Nonane</i>	117 %	50-200		02/17/22	02/20/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2208074	
Chloride	916	20.0	1	02/17/22	02/17/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: NBL Unit 4-15 SWD 06.12.2021 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
2/23/2022 1:08:35PM

CONF21A-4'

E202069-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2208054	
Benzene	ND	0.0250	1	02/15/22	02/18/22	
Ethylbenzene	ND	0.0250	1	02/15/22	02/18/22	
Toluene	ND	0.0250	1	02/15/22	02/18/22	
o-Xylene	ND	0.0250	1	02/15/22	02/18/22	
p,m-Xylene	ND	0.0500	1	02/15/22	02/18/22	
Total Xylenes	ND	0.0250	1	02/15/22	02/18/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	93.3 %	70-130		02/15/22	02/18/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2208054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/22	02/18/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	107 %	70-130		02/15/22	02/18/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2208085	
Diesel Range Organics (C10-C28)	43.5	25.0	1	02/17/22	02/20/22	
Oil Range Organics (C28-C36)	66.7	50.0	1	02/17/22	02/20/22	
<i>Surrogate: n-Nonane</i>	118 %	50-200		02/17/22	02/20/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2208074	
Chloride	707	100	5	02/17/22	02/17/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: NBL Unit 4-15 SWD 06.12.2021 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
2/23/2022 1:08:35PM

CONF22A-4'

E202069-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2208054	
Benzene	ND	0.0250	1	02/15/22	02/18/22	
Ethylbenzene	ND	0.0250	1	02/15/22	02/18/22	
Toluene	ND	0.0250	1	02/15/22	02/18/22	
o-Xylene	ND	0.0250	1	02/15/22	02/18/22	
p,m-Xylene	ND	0.0500	1	02/15/22	02/18/22	
Total Xylenes	ND	0.0250	1	02/15/22	02/18/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		94.6 %	70-130	02/15/22	02/18/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2208054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/22	02/18/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		106 %	70-130	02/15/22	02/18/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2208085	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/17/22	02/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	02/17/22	02/20/22	
<i>Surrogate: n-Nonane</i>		120 %	50-200	02/17/22	02/20/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2208074	
Chloride	1060	20.0	1	02/17/22	02/17/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: NBL Unit 4-15 SWD 06.12.2021 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
2/23/2022 1:08:35PM

CONF24A-4'

E202069-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2208054	
Benzene	ND	0.0250	1	02/15/22	02/18/22	
Ethylbenzene	ND	0.0250	1	02/15/22	02/18/22	
Toluene	ND	0.0250	1	02/15/22	02/18/22	
o-Xylene	ND	0.0250	1	02/15/22	02/18/22	
p,m-Xylene	ND	0.0500	1	02/15/22	02/18/22	
Total Xylenes	ND	0.0250	1	02/15/22	02/18/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	94.3 %	70-130		02/15/22	02/18/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2208054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/22	02/18/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	106 %	70-130		02/15/22	02/18/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2208085	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/17/22	02/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	02/17/22	02/20/22	
<i>Surrogate: n-Nonane</i>	120 %	50-200		02/17/22	02/20/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2208074	
Chloride	1780	40.0	2	02/17/22	02/17/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: NBL Unit 4-15 SWD 06.12.2021 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
2/23/2022 1:08:35PM

CONF25A-4'

E202069-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2208054	
Benzene	ND	0.0250	1	02/15/22	02/18/22	
Ethylbenzene	ND	0.0250	1	02/15/22	02/18/22	
Toluene	ND	0.0250	1	02/15/22	02/18/22	
o-Xylene	ND	0.0250	1	02/15/22	02/18/22	
p,m-Xylene	ND	0.0500	1	02/15/22	02/18/22	
Total Xylenes	ND	0.0250	1	02/15/22	02/18/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		94.5 %	70-130	02/15/22	02/18/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2208054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/22	02/18/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		106 %	70-130	02/15/22	02/18/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2208085	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/17/22	02/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	02/17/22	02/20/22	
<i>Surrogate: n-Nonane</i>		120 %	50-200	02/17/22	02/20/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2208074	
Chloride	1860	20.0	1	02/17/22	02/17/22	





## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: NBL Unit 4-15 SWD 06.12.2021 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
2/23/2022 1:08:35PM

## CONF26A-4'

## E202069-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2208026
Benzene	ND	0.0250	1	02/15/22	02/17/22	
Ethylbenzene	ND	0.0250	1	02/15/22	02/17/22	
Toluene	ND	0.0250	1	02/15/22	02/17/22	
o-Xylene	ND	0.0250	1	02/15/22	02/17/22	
p,m-Xylene	ND	0.0500	1	02/15/22	02/17/22	
Total Xylenes	ND	0.0250	1	02/15/22	02/17/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.4 %	70-130		02/15/22	02/17/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2208026
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/22	02/17/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	111 %	70-130		02/15/22	02/17/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2208087
Diesel Range Organics (C10-C28)	ND	25.0	1	02/17/22	02/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	02/17/22	02/20/22	
<i>Surrogate: n-Nonane</i>						
	117 %	50-200		02/17/22	02/20/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2208076
Chloride	1260	20.0	1	02/17/22	02/17/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: NBL Unit 4-15 SWD 06.12.2021 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
2/23/2022 1:08:35PM

CONF27A-4'

E202069-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2208026
Benzene	ND	0.0250	1	02/15/22	02/17/22	
Ethylbenzene	ND	0.0250	1	02/15/22	02/17/22	
Toluene	ND	0.0250	1	02/15/22	02/17/22	
o-Xylene	ND	0.0250	1	02/15/22	02/17/22	
p,m-Xylene	ND	0.0500	1	02/15/22	02/17/22	
Total Xylenes	ND	0.0250	1	02/15/22	02/17/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.5 %	70-130		02/15/22	02/17/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2208026
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/22	02/17/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	109 %	70-130		02/15/22	02/17/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2208087
Diesel Range Organics (C10-C28)	ND	25.0	1	02/17/22	02/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	02/17/22	02/20/22	
<i>Surrogate: n-Nonane</i>						
	114 %	50-200		02/17/22	02/20/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2208076
Chloride	3540	40.0	2	02/17/22	02/17/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: NBL Unit 4-15 SWD 06.12.2021 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
2/23/2022 1:08:35PM

CONF28A-4'

E202069-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2208026
Benzene	ND	0.0250	1	02/15/22	02/17/22	
Ethylbenzene	ND	0.0250	1	02/15/22	02/17/22	
Toluene	ND	0.0250	1	02/15/22	02/17/22	
o-Xylene	ND	0.0250	1	02/15/22	02/17/22	
p,m-Xylene	ND	0.0500	1	02/15/22	02/17/22	
Total Xylenes	ND	0.0250	1	02/15/22	02/17/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.8 %	70-130		02/15/22	02/17/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2208026
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/22	02/17/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	111 %	70-130		02/15/22	02/17/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2208087
Diesel Range Organics (C10-C28)	ND	25.0	1	02/17/22	02/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	02/17/22	02/20/22	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		02/17/22	02/20/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2208076
Chloride	1630	40.0	2	02/17/22	02/18/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: NBL Unit 4-15 SWD 06.12.2021 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
2/23/2022 1:08:35PM

## CONF31A Wall - 1'

E202069-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2208026	
Benzene	ND	0.0250	1	02/15/22	02/17/22	
Ethylbenzene	ND	0.0250	1	02/15/22	02/17/22	
Toluene	ND	0.0250	1	02/15/22	02/17/22	
o-Xylene	ND	0.0250	1	02/15/22	02/17/22	
p,m-Xylene	ND	0.0500	1	02/15/22	02/17/22	
Total Xylenes	ND	0.0250	1	02/15/22	02/17/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	96.0 %	70-130		02/15/22	02/17/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2208026	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/22	02/17/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	110 %	70-130		02/15/22	02/17/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2208087	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/17/22	02/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	02/17/22	02/20/22	
<i>Surrogate: n-Nonane</i>	108 %	50-200		02/17/22	02/20/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2208076	
Chloride	71.3	20.0	1	02/17/22	02/18/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: NBL Unit 4-15 SWD 06.12.2021 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
2/23/2022 1:08:35PM

## CONF32A Wall -3'

E202069-25

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2208026
Benzene	ND	0.0250	1	02/15/22	02/17/22	
Ethylbenzene	0.0301	0.0250	1	02/15/22	02/17/22	
Toluene	ND	0.0250	1	02/15/22	02/17/22	
o-Xylene	0.0527	0.0250	1	02/15/22	02/17/22	
p,m-Xylene	0.137	0.0500	1	02/15/22	02/17/22	
Total Xylenes	0.190	0.0250	1	02/15/22	02/17/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.9 %	70-130		02/15/22	02/17/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2208026
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/22	02/17/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	110 %	70-130		02/15/22	02/17/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2208087
Diesel Range Organics (C10-C28)	70.4	25.0	1	02/17/22	02/20/22	
Oil Range Organics (C28-C36)	96.3	50.0	1	02/17/22	02/20/22	
<i>Surrogate: n-Nonane</i>						
	113 %	50-200		02/17/22	02/20/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2208076
Chloride	673	200	10	02/17/22	02/18/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: NBL Unit 4-15 SWD 06.12.2021 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
2/23/2022 1:08:35PM

## CONF33A Wall -3'

E202069-26

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2208026	
Benzene	ND	0.0250	1	02/15/22	02/17/22	
Ethylbenzene	0.0677	0.0250	1	02/15/22	02/17/22	
Toluene	0.0537	0.0250	1	02/15/22	02/17/22	
o-Xylene	0.0958	0.0250	1	02/15/22	02/17/22	
p,m-Xylene	0.274	0.0500	1	02/15/22	02/17/22	
Total Xylenes	0.370	0.0250	1	02/15/22	02/17/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.7 %	70-130		02/15/22	02/17/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2208026	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/22	02/17/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	109 %	70-130		02/15/22	02/17/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2208087	
Diesel Range Organics (C10-C28)	250	25.0	1	02/17/22	02/20/22	
Oil Range Organics (C28-C36)	253	50.0	1	02/17/22	02/20/22	
<i>Surrogate: n-Nonane</i>						
	116 %	50-200		02/17/22	02/20/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2208076	
Chloride	1260	200	10	02/17/22	02/18/22	





## QC Summary Data

Kaiser Francis Oil Company	Project Name:	NBL Unit 4-15 SWD 06.12.2021 Spill	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	2/23/2022 1:08:35PM

## Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2208026-BLK1)

Prepared: 02/15/22 Analyzed: 02/16/22

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.65		8.00		95.6	70-130			

## LCS (2208026-BS1)

Prepared: 02/15/22 Analyzed: 02/16/22

Benzene	4.55	0.0250	5.00		91.0	70-130			
Ethylbenzene	4.60	0.0250	5.00		92.0	70-130			
Toluene	4.73	0.0250	5.00		94.7	70-130			
o-Xylene	4.70	0.0250	5.00		94.0	70-130			
p,m-Xylene	9.35	0.0500	10.0		93.5	70-130			
Total Xylenes	14.1	0.0250	15.0		93.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.82		8.00		97.8	70-130			

## Matrix Spike (2208026-MS1)

Source: E202064-21

Prepared: 02/15/22 Analyzed: 02/17/22

Benzene	4.59	0.0250	5.00	ND	91.8	54-133			
Ethylbenzene	4.63	0.0250	5.00	ND	92.5	61-133			
Toluene	4.75	0.0250	5.00	ND	95.1	61-130			
o-Xylene	4.73	0.0250	5.00	ND	94.7	63-131			
p,m-Xylene	9.39	0.0500	10.0	ND	93.9	63-131			
Total Xylenes	14.1	0.0250	15.0	ND	94.2	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.75		8.00		96.9	70-130			

## Matrix Spike Dup (2208026-MSD1)

Source: E202064-21

Prepared: 02/15/22 Analyzed: 02/17/22

Benzene	4.62	0.0250	5.00	ND	92.4	54-133	0.651	20	
Ethylbenzene	4.67	0.0250	5.00	ND	93.3	61-133	0.855	20	
Toluene	4.79	0.0250	5.00	ND	95.8	61-130	0.705	20	
o-Xylene	4.77	0.0250	5.00	ND	95.4	63-131	0.749	20	
p,m-Xylene	9.48	0.0500	10.0	ND	94.8	63-131	0.957	20	
Total Xylenes	14.3	0.0250	15.0	ND	95.0	63-131	0.888	20	
Surrogate: 4-Bromochlorobenzene-PID	7.76		8.00		97.0	70-130			



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	NBL Unit 4-15 SWD 06.12.2021 Spill	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	2/23/2022 1:08:35PM

## Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2208054-BLK1)

Prepared: 02/15/22 Analyzed: 02/18/22

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.42		8.00		92.7	70-130			

## LCS (2208054-BS1)

Prepared: 02/15/22 Analyzed: 02/18/22

Benzene	3.99	0.0250	5.00		79.8	70-130			
Ethylbenzene	4.04	0.0250	5.00		80.7	70-130			
Toluene	4.15	0.0250	5.00		82.9	70-130			
o-Xylene	4.13	0.0250	5.00		82.7	70-130			
p,m-Xylene	8.21	0.0500	10.0		82.1	70-130			
Total Xylenes	12.3	0.0250	15.0		82.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.63		8.00		95.3	70-130			

## Matrix Spike (2208054-MS1)

Source: E202069-02

Prepared: 02/15/22 Analyzed: 02/18/22

Benzene	4.43	0.0250	5.00	ND	88.6	54-133			
Ethylbenzene	4.50	0.0250	5.00	ND	90.0	61-133			
Toluene	4.61	0.0250	5.00	ND	92.2	61-130			
o-Xylene	4.60	0.0250	5.00	ND	92.0	63-131			
p,m-Xylene	9.15	0.0500	10.0	ND	91.5	63-131			
Total Xylenes	13.8	0.0250	15.0	ND	91.7	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.64		8.00		95.5	70-130			

## Matrix Spike Dup (2208054-MSD1)

Source: E202069-02

Prepared: 02/15/22 Analyzed: 02/18/22

Benzene	3.98	0.0250	5.00	ND	79.6	54-133	10.7	20	
Ethylbenzene	4.05	0.0250	5.00	ND	80.9	61-133	10.7	20	
Toluene	4.15	0.0250	5.00	ND	82.9	61-130	10.6	20	
o-Xylene	4.14	0.0250	5.00	ND	82.9	63-131	10.4	20	
p,m-Xylene	8.23	0.0500	10.0	ND	82.3	63-131	10.7	20	
Total Xylenes	12.4	0.0250	15.0	ND	82.5	63-131	10.6	20	
Surrogate: 4-Bromochlorobenzene-PID	7.60		8.00		95.0	70-130			



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	NBL Unit 4-15 SWD 06.12.2021 Spill	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	2/23/2022 1:08:35PM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2208026-BLK1)

Prepared: 02/15/22 Analyzed: 02/16/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.87		8.00		111	70-130			

## LCS (2208026-BS2)

Prepared: 02/15/22 Analyzed: 02/17/22

Gasoline Range Organics (C6-C10)	54.6	20.0	50.0		109	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.97		8.00		112	70-130			

## Matrix Spike (2208026-MS2)

Source: E202064-21

Prepared: 02/15/22 Analyzed: 02/17/22

Gasoline Range Organics (C6-C10)	53.4	20.0	50.0	ND	107	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.99		8.00		112	70-130			

## Matrix Spike Dup (2208026-MSD2)

Source: E202064-21

Prepared: 02/15/22 Analyzed: 02/17/22

Gasoline Range Organics (C6-C10)	54.9	20.0	50.0	ND	110	70-130	2.75	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.89		8.00		111	70-130			



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	NBL Unit 4-15 SWD 06.12.2021 Spill	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	2/23/2022 1:08:35PM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2208054-BLK1)

Prepared: 02/15/22 Analyzed: 02/18/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.55		8.00		107	70-130			

## LCS (2208054-BS2)

Prepared: 02/15/22 Analyzed: 02/18/22

Gasoline Range Organics (C6-C10)	50.8	20.0	50.0		102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.68		8.00		109	70-130			

## Matrix Spike (2208054-MS2)

Source: E202069-02

Prepared: 02/15/22 Analyzed: 02/18/22

Gasoline Range Organics (C6-C10)	51.7	20.0	50.0	ND	103	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.60		8.00		107	70-130			

## Matrix Spike Dup (2208054-MSD2)

Source: E202069-02

Prepared: 02/15/22 Analyzed: 02/18/22

Gasoline Range Organics (C6-C10)	54.3	20.0	50.0	ND	109	70-130	4.89	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.65		8.00		108	70-130			



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	NBL Unit 4-15 SWD 06.12.2021 Spill	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	2/23/2022 1:08:35PM

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2208085-BLK1)

Prepared: 02/17/22 Analyzed: 02/20/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	54.7		50.0		109	50-200			

## LCS (2208085-BS1)

Prepared: 02/17/22 Analyzed: 02/20/22

Diesel Range Organics (C10-C28)	491	25.0	500		98.1	38-132			
Surrogate: <i>n</i> -Nonane	58.5		50.0		117	50-200			

## Matrix Spike (2208085-MS1)

Source: E202069-18

Prepared: 02/17/22 Analyzed: 02/20/22

Diesel Range Organics (C10-C28)	527	25.0	500	ND	105	38-132			
Surrogate: <i>n</i> -Nonane	58.4		50.0		117	50-200			

## Matrix Spike Dup (2208085-MSD1)

Source: E202069-18

Prepared: 02/17/22 Analyzed: 02/20/22

Diesel Range Organics (C10-C28)	515	25.0	500	ND	103	38-132	2.42	20	
Surrogate: <i>n</i> -Nonane	59.8		50.0		120	50-200			



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	NBL Unit 4-15 SWD 06.12.2021 Spill	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	2/23/2022 1:08:35PM

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2208087-BLK1)

Prepared: 02/17/22 Analyzed: 02/20/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.9		50.0		104	50-200			

## LCS (2208087-BS1)

Prepared: 02/17/22 Analyzed: 02/20/22

Diesel Range Organics (C10-C28)	486	25.0	500		97.2	38-132			
Surrogate: n-Nonane	53.8		50.0		108	50-200			

## Matrix Spike (2208087-MS1)

Source: E202069-22

Prepared: 02/17/22 Analyzed: 02/20/22

Diesel Range Organics (C10-C28)	509	25.0	500	ND	102	38-132			
Surrogate: n-Nonane	56.8		50.0		114	50-200			

## Matrix Spike Dup (2208087-MSD1)

Source: E202069-22

Prepared: 02/17/22 Analyzed: 02/20/22

Diesel Range Organics (C10-C28)	497	25.0	500	ND	99.4	38-132	2.34	20	
Surrogate: n-Nonane	55.7		50.0		111	50-200			





## QC Summary Data

Kaiser Francis Oil Company	Project Name:	NBL Unit 4-15 SWD 06.12.2021 Spill	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	2/23/2022 1:08:35PM

## Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2208074-BLK1)

Prepared: 02/17/22 Analyzed: 02/17/22

Chloride ND 20.0

## LCS (2208074-BS1)

Prepared: 02/17/22 Analyzed: 02/17/22

Chloride 251 20.0 250 100 90-110

## Matrix Spike (2208074-MS1)

Source: E202069-01

Prepared: 02/17/22 Analyzed: 02/17/22

Chloride 1510 20.0 250 1390 50.3 80-120 M2

## Matrix Spike Dup (2208074-MSD1)

Source: E202069-01

Prepared: 02/17/22 Analyzed: 02/17/22

Chloride 1650 20.0 250 1390 104 80-120 8.49 20



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	NBL Unit 4-15 SWD 06.12.2021 Spill	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	2/23/2022 1:08:35PM

## Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2208076-BLK1)

Prepared: 02/17/22 Analyzed: 02/17/22

Chloride ND 20.0

## LCS (2208076-BS1)

Prepared: 02/17/22 Analyzed: 02/17/22

Chloride 250 20.0 250 100 90-110

## Matrix Spike (2208076-MS1)

Source: E202073-01

Prepared: 02/17/22 Analyzed: 02/17/22

Chloride 314 20.0 250 66.4 99.1 80-120

## Matrix Spike Dup (2208076-MSD1)

Source: E202073-01

Prepared: 02/17/22 Analyzed: 02/17/22

Chloride 320 20.0 250 66.4 102 80-120 1.96 20

## QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

Kaiser Francis Oil Company	Project Name:	NBL Unit 4-15 SWD 06.12.2021 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	02/23/22 13:08

- M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Project Information

Chain of Custody

PO 31788

Page 1 of 3

Client: Kaiser Francis Oil Co		Bill To		Lab Use Only		TAT				EPA Program	
Project:		Attention: Wescom Inc		Lab WO#		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Ashley Giovengo		Address: 1224 Standpipe Rd		E 202069					x		
Address: 1224 Standpipe Rd		City, State, Zip: Carlsbad, NM 88220		Job Number						RCRA	
City, State, Zip: Carlsbad, NM 88220		Phone: 505-382-1211		Analysis and Method						State	
Phone: 505-382-1211		Email: ashley.giovengo@wescominc.com								NM CO UT AZ TX	
mail: ashley.giovengo@wescominc.com										x	
Report due by:										Remarks	

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRQ/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX		
11:07	2/9/22	Soil	1 Jar	CONF01A - 4'	1							X			
11:04	2/9/22	Soil	1 Jar	CONF02A - 4'	2							X			
10:42	2/9/22	Soil	1 Jar	CONF03A - 4'	3							X			
10:38	2/9/22	Soil	1 Jar	CONF04A - 4'	4							X			
13:10	2/9/22	Soil	1 Jar	CONF06A - 1'	5							X			
15:10	2/10/22	Soil	1 Jar	CONF08A - 4'	6							X			
15:38	2/9/22	Soil	1 Jar	CONF09A - 4'	7							X			
12:52	2/9/22	Soil	1 Jar	CONF10A - 1'	8							X			
15:06	2/10/22	Soil	1 Jar	CONF12A - 4'	9							X			
15:02	2/10/22	Soil	1 Jar	CONF13A - 4'	10							X			

Additional Instructions: Kept on ice, Please CC: cole.burton@wescominc.com, shar.harvester@wescominc.com, ashley.giovengo@wescominc.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C 4
<i>[Signature]</i>	2/11/22	1:23pm	<i>[Signature]</i>	2-11-22	13:23	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<i>[Signature]</i>	5-11-22	1600	<i>Caroline Chatter</i>	2/12/22	11:00	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other \_\_\_\_\_ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



Client: Kaiser Francis Oil Co					Bill To		Lab Use Only				TAT				EPA Program		
Project:					Attention: Wescom Inc		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA	
Project Manager: Ashley Giovengo					Address: 1224 Standpipe Rd		E202069		21022-0001					x			
Address: 1224 Standpipe Rd					City, State, Zip: Carlsbad, NM 88220		Analysis and Method								RCRA		
City, State, Zip: Carlsbad, NM 88220					Phone: 505-382-1211		DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0					
Phone: 505-382-1211					Email: ashley.giovengo@wescominc.com												
Email: ashley.giovengo@wescominc.com																	
Report due by:																	
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number												
14:45	2/9/22	Soil	1 Jar	CONF14A - 4'	11												
14:21	2/10/22	Soil	1 Jar	CONF16A - 4'	12												
14:16	2/10/22	Soil	1 Jar	CONF17A - 4'	13												
14:12	2/10/22	Soil	1 Jar	CONF18A - 4'	14												
14:00	2/10/22	Soil	1 Jar	CONF19A - 4'	15												
13:57	2/10/22	Soil	1 Jar	CONF20A - 4'	16												
13:54	2/10/22	Soil	1 Jar	CONF21A - 4'	17												
11:59	2/10/22	Soil	1 Jar	CONF22A - 1'	18												
11:56	2/10/22	Soil	1 Jar	CONF24A - 4'	19												
11:53	2/10/22	Soil	1 Jar	CONF25A - 4'	20												
Additional Instructions: Kept on ice, Please CC: cole.burton@wescominc.com, shar.harvester@wescominc.com, ashley.giovengo@wescominc.com																	
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.											Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.						
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only									
		2/11/22	1:23pm			2-11-22	13:23	Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 _____ T2 _____ T3 _____									
		2-11-22	1600			2/12/22	11:00										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C 4									
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____											Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA						
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	

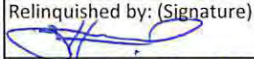
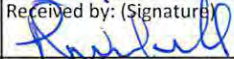
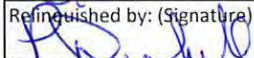


Client: Kaiser Francis Oil Co		<b>Bill To</b>		Lab Use Only				TAT				EPA Program	
Project:		Attention: Wescom Inc		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Ashley Giovengo		Address: 1224 Standpipe Rd		E 202069		21022-0001					x		
Address: 1224 Standpipe Rd		City, State, Zip: Carlsbad, NM 88220		Analysis and Method									
City, State, Zip: Carlsbad, NM 88220		Phone: 505-382-1211											
Phone: 505-382-1211		Email: ashley.giovengo@wescominc.com		RCRA									
Email: ashley.giovengo@wescominc.com				State									
Report due by:				NM CO UT AZ TX									

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
16:15	2/9/22	Soil	1 Jar	CONF26A - 4'	21							X		
16:18	2/9/22	Soil	1 Jar	CONF27A - 4'	22							X		
15:50	2/9/22	Soil	1 Jar	CONF28A - 4'	23							X		
12:19	2/10/22	Soil	1 Jar	CONF31A Wall - 1'	24							X		
9:10	2/9/22	Soil	1 Jar	CONF32A Wall - 3'	25							X		
10:33	2/9/22	Soil	1 Jar	CONF33A Wall - 3'	26							X		

**Additional Instructions:** Kept on ice, Please CC: cole.burton@wescominc.com, shar.harvester@wescominc.com, ashley.giovengo@wescominc.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	<b>Lab Use Only</b> Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
	2/11/22	1:23pm		2-11-22	13:23	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
	2-11-22	1600	Carter Chute	2/12/22	11:00	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other \_\_\_\_\_ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



## Envirotech Analytical Laboratory

Printed: 2/14/2022 2:24:52PM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Kaiser Francis Oil Company	Date Received:	02/12/22 11:00	Work Order ID:	E202069
Phone:	(505) 382-1211	Date Logged In:	02/11/22 17:14	Logged In By:	Caitlin Christian
Email:	ashley.giovengo@wescominc.com	Due Date:	02/18/22 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: na

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.



## Project Information

## Chain of Custody

PO 31788

Page 1 of 3

CC 2/14/22 per Ashley  
 Client: Kaiser Francis Oil Co  
 Project: NBL Unit 4-15 SWD 06.12.2021 spill  
 Project Manager: Ashley Giovengo  
 Address: 1224 Standpipe Rd  
 City, State, Zip: Carlsbad, NM 88220  
 Phone: 505-382-1211  
 Email: ashley.giovengo@wescominc.com  
 Report due by:

Bill To  
 Attention: Wescom Inc  
 Address: 1224 Standpipe Rd  
 City, State, Zip: Carlsbad, NM 88220  
 Phone: 505-382-1211  
 Email: ashley.giovengo@wescominc.com

Lab Use Only										TAT				EPA Program	
Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA						
E 202069		21022-001					x								
Analysis and Method										RCRA		State			
DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0					NM	CO	UT	AZ	TX	
										x					
										Remarks					
										x					
										x					
										x					
										x					
										x					
										x					
										x					
										x					
										x					
										x					
										x					
										x					

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number
11:07	2/9/22	Soil	1 Jar	CONF01A - 4'	1
11:04	2/9/22	Soil	1 Jar	CONF02A - 4'	2
10:42	2/9/22	Soil	1 Jar	CONF03A - 4'	3
10:38	2/9/22	Soil	1 Jar	CONF04A - 4'	4
13:10	2/9/22	Soil	1 Jar	CONF06A - 1'	5
15:10	2/10/22	Soil	1 Jar	CONF08A - 4'	6
15:38	2/9/22	Soil	1 Jar	CONF09A - 4'	7
12:52	2/9/22	Soil	1 Jar	CONF10A - 1' <u>Wall</u>	8
15:06	2/10/22	Soil	1 Jar	CONF12A - 4'	9
15:02	2/10/22	Soil	1 Jar	CONF13A - 4'	10

Additional Instructions: Kept on ice, Please CC: cole.burton@wescominc.com, shar.harvester@wescominc.com, ashley.giovengo@wescominc.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by:

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
<i>[Signature]</i>	2/11/22	1:23pm	<i>[Signature]</i>	2-11-22	13:23
<i>[Signature]</i>	5-11-22	1600	<i>[Signature]</i>	2/12/22	11:00
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Lab Use Only  
 Received on ice: 01 N  
 T1 \_\_\_\_\_ T2 \_\_\_\_\_ T3 \_\_\_\_\_  
 AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

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## Project Information

## Chain of Custody

Page 2 of 3

*CC 2/14/22 per Ashley*

Client: Kaiser Francis Oil Co	Bill To	Lab Use Only		TAT				EPA Program	
Project: <i>NRL Unit 4-15 SWD 06-12-2021 SF 11</i>	Attention: Wescom Inc	Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA
Project Manager: Ashley Giovengo	Address: 1224 Standpipe Rd	<i>E202069</i>	<i>2/12/22-0001</i>				x		
Address: 1224 Standpipe Rd	City, State, Zip: Carlsbad, NM 88220	Analysis and Method							RCRA
City, State, Zip: Carlsbad, NM 88220	Phone: 505-382-1211	DRO/ORO by 8015	GRO/DRO by 8015	BTX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		
Phone: 505-382-1211	Email: ashley.giovengo@wescominc.com								
Email: ashley.giovengo@wescominc.com									
Report due by:									

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC	TX	State	Remarks
14:45	2/9/22	Soil	1 Jar	CONF14A - 4'	<i>11</i>							X			
14:21	2/10/22	Soil	1 Jar	CONF16A - 4'	<i>12</i>							X			
14:16	2/10/22	Soil	1 Jar	CONF17A - 4'	<i>13</i>							X			
14:12	2/10/22	Soil	1 Jar	CONF18A - 4'	<i>14</i>							X			
14:00	2/10/22	Soil	1 Jar	CONF19A - 4'	<i>15</i>							X			
13:57	2/10/22	Soil	1 Jar	CONF20A - 4'	<i>16</i>							X			
13:54	2/10/22	Soil	1 Jar	CONF21A - 4'	<i>17</i>							X			
11:59	2/10/22	Soil	1 Jar	CONF22A - <i>2' 4'</i>	<i>18</i>							X			<i>AM 2/23/22 per. Cole</i>
11:56	2/10/22	Soil	1 Jar	CONF24A - 4'	<i>19</i>							X			
11:53	2/10/22	Soil	1 Jar	CONF25A - 4'	<i>20</i>							X			

Additional Instructions: Kept on ice, Please CC: cole.burton@wescominc.com, shar.harvester@wescominc.com, ashley.giovengo@wescominc.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by:

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <i>4</i>
<i>[Signature]</i>	<i>2/11/22</i>	<i>1:23pm</i>	<i>[Signature]</i>	<i>2-11-22</i>	<i>13:23</i>	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<i>[Signature]</i>	<i>2-11-22</i>	<i>1600</i>	<i>Christina Chutkan</i>	<i>2/12/22</i>	<i>11:00</i>	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.


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## Chain of Custody

CC 2/14/22 Per Ashleys


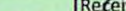


Client: Kaiser Francis Oil Co	Bill To	Lab Use Only				TAT				EPA Program	
Project: NBL Unit 4-15 SWD 06-12-2021 Spill	Attention: Wescom Inc	Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Ashley Giovengo	Address: 1224 Standpipe Rd	E 202069		21022-0001					x		
Address: 1224 Standpipe Rd	City, State, Zip: Carlsbad, NM 88220	Analysis and Method								RCRA	
City, State, Zip: Carlsbad, NM 88220	Phone: 505-382-1211										
Phone: 505-382-1211	Email: ashley.giovengo@wescominc.com										
Email: ashley.giovengo@wescominc.com											
Report due by:											

[illegible]

Additional Instructions: Kept on ice, Please CC: cole.burton@wescominc.com, shar.harvester@wescominc.com, ashley.giovento@wescominc.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature) 	Date 2/11/22	Time 1:23pm	Received by: (Signature) 	Date 2-11-22	Time 13:23
Relinquished by: (Signature) 	Date 2-11-22	Time 1600	Received by: (Signature) 	Date 2/12/22	Time 11:00
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Lab Use Only

Received on ice: Y / N

T1 \_\_\_\_\_ T2 \_\_\_\_\_ T3 \_\_\_\_\_

AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other \_\_\_\_\_

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA \_\_\_\_\_

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



Report to:

Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Kaiser Francis Oil Company

Project Name: NBL 4-15 SWD

Work Order: E203055

Job Number: 21022-0001

Received: 3/11/2022

Revision: 2

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
3/21/22

5796 U.S. Hwy 64  
Farmington, NM 87401

Phone: (505) 632-1881  
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.  
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.  
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.  
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.  
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.  
Envirotech Inc. holds the NM SDWA certification for data reported. (Lab #NM00979)

Date Reported: 3/21/22

Ashley Giovengo  
1224 Standpipe Rd  
Carlsbad, NM 88220



Project Name: NBL 4-15 SWD  
Workorder: E203055  
Date Received: 3/11/2022 7:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/11/2022 7:30:00AM, under the Project Name: NBL 4-15 SWD.

The analytical test results summarized in this report with the Project Name: NBL 4-15 SWD apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

**Walter Hinchman**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
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Office: 505-632-1881  
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**Alexa Michaels**  
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Cell: 505-320-4759  
[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**West Texas Midland/Odessa Area**  
**Rayny Hagan**  
Technical Representative  
Office: 505-421-LABS(5227)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)



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Sample Summary

Kaiser Francis Oil Company	Project Name:	NBL 4-15 SWD	Reported: 03/21/22 12:42
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CONF32B Wall - 3'	E203055-01A	Soil	03/07/22	03/11/22	Glass Jar, 4 oz.



## Sample Data

Kaiser Francis Oil Company	Project Name:	NBL 4-15 SWD	
1224 Standpipe Rd	Project Number:	21022-0001	<b>Reported:</b>
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	3/21/2022 12:42:52PM

## CONF32B Wall - 3'

## E203055-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: RKS		Batch: 2211077
Benzene	ND	0.0250	1	03/11/22	03/11/22	
Ethylbenzene	ND	0.0250	1	03/11/22	03/11/22	
Toluene	ND	0.0250	1	03/11/22	03/11/22	
o-Xylene	ND	0.0250	1	03/11/22	03/11/22	
p,m-Xylene	ND	0.0500	1	03/11/22	03/11/22	
Total Xylenes	ND	0.0250	1	03/11/22	03/11/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	94.5 %	70-130		03/11/22	03/11/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: RKS		Batch: 2211077
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/11/22	03/11/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	99.0 %	70-130		03/11/22	03/11/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2211069
Diesel Range Organics (C10-C28)	ND	25.0	1	03/11/22	03/11/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/11/22	03/11/22	
<i>Surrogate: n-Nonane</i>	109 %	50-200		03/11/22	03/11/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2211071
Chloride	299	20.0	1	03/11/22	03/11/22	



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	NBL 4-15 SWD	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	3/21/2022 12:42:52PM

## Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2211077-BLK1)

Prepared: 03/10/22 Analyzed: 03/11/22

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.44		8.00		93.0	70-130			

## LCS (2211077-BS1)

Prepared: 03/10/22 Analyzed: 03/11/22

Benzene	4.74	0.0250	5.00		94.8	70-130			
Ethylbenzene	5.01	0.0250	5.00		100	70-130			
Toluene	5.24	0.0250	5.00		105	70-130			
o-Xylene	4.96	0.0250	5.00		99.2	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.1	0.0250	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.51		8.00		93.9	70-130			

## LCS Dup (2211077-BS1)

Prepared: 03/10/22 Analyzed: 03/11/22

Benzene	4.94	0.0250	5.00		98.8	70-130	4.14	20	
Ethylbenzene	5.20	0.0250	5.00		104	70-130	3.74	20	
Toluene	5.44	0.0250	5.00		109	70-130	3.78	20	
o-Xylene	5.14	0.0250	5.00		103	70-130	3.55	20	
p,m-Xylene	10.5	0.0500	10.0		105	70-130	3.60	20	
Total Xylenes	15.7	0.0250	15.0		104	70-130	3.58	20	
Surrogate: 4-Bromochlorobenzene-PID	7.51		8.00		93.9	70-130			



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	NBL 4-15 SWD	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	3/21/2022 12:42:52PM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2211077-BLK1)

Prepared: 03/10/22 Analyzed: 03/11/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.91		8.00		98.9	70-130			

## LCS (2211077-BS2)

Prepared: 03/10/22 Analyzed: 03/11/22

Gasoline Range Organics (C6-C10)	46.9	20.0	50.0		93.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.87		8.00		98.3	70-130			

## LCS Dup (2211077-BSD2)

Prepared: 03/10/22 Analyzed: 03/11/22

Gasoline Range Organics (C6-C10)	46.4	20.0	50.0		92.8	70-130	1.08	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.89		8.00		98.6	70-130			



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	NBL 4-15 SWD	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	3/21/2022 12:42:52PM

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2211069-BLK1)

Prepared: 03/10/22 Analyzed: 03/10/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	55.5		50.0		111	50-200			

## LCS (2211069-BS1)

Prepared: 03/10/22 Analyzed: 03/11/22

Diesel Range Organics (C10-C28)	481	25.0	500		96.3	38-132			
Surrogate: <i>n</i> -Nonane	50.9		50.0		102	50-200			

## LCS Dup (2211069-BSD1)

Prepared: 03/10/22 Analyzed: 03/11/22

Diesel Range Organics (C10-C28)	488	25.0	500		97.7	38-132	1.45	20	
Surrogate: <i>n</i> -Nonane	50.1		50.0		100	50-200			





## QC Summary Data

Kaiser Francis Oil Company	Project Name:	NBL 4-15 SWD	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	3/21/2022 12:42:52PM

## Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

## Blank (2211071-BLK1)

Prepared: 03/10/22 Analyzed: 03/11/22

Chloride	ND	20.0							
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## LCS (2211071-BS1)

Prepared: 03/10/22 Analyzed: 03/11/22

Chloride	250	20.0	250		100	90-110			
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## LCS Dup (2211071-BSD1)

Prepared: 03/10/22 Analyzed: 03/11/22

Chloride	250	20.0	250		100	90-110	0.168	20	
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## QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

Kaiser Francis Oil Company	Project Name:	NBL 4-15 SWD	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	03/21/22 12:42

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Page 1 of 1Page 11 of 13

## Envirotech Analytical Laboratory

Printed: 3/11/2022 7:50:50AM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Kaiser Francis Oil Company	Date Received:	03/11/22 07:30	Work Order ID:	E203055
Phone:	(505) 382-1211	Date Logged In:	03/08/22 16:59	Logged In By:	Caitlin Christian
Email:	ashley.giovengo@wescominc.com	Due Date:	03/11/22 17:00 (0 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: na

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.





# ATTACHMENT F

## Depth to Water Approval Email



**Energizing America**

**wescominc.com** | [info@wescominc.com](mailto:info@wescominc.com) | 218-724-1322

**NBL Unit 4 #15 SWD** | Incident ID: nAPP2116429491



3/17/22, 3:07 PM

Wescom Inc Mail - RE: FW: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 64949



Ashley Giovengo &lt;ashley.giovengo@wescominc.com&gt;

**RE: FW: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 64949**

1 message

Aaron Daniels <aarond@kfoc.net>

To: Ashley Giovengo <ashley.giovengo@wescominc.com>

Cc: Charles Lock <CharlesL@kfoc.net>, Shar Harvester <shar.harvester@wescominc.com>

I need to speak to Charles and JP.

Will an answer by the end of business today suffice?

AD

**From:** Ashley Giovengo <ashley.giovengo@wescominc.com>

**Sent:** Monday, February 7, 2022 9:05 AM

**To:** Aaron Daniels <aarond@kfoc.net>

**Cc:** Charles Lock <CharlesL@kfoc.net>; Shar Harvester <shar.harvester@wescominc.com>

**Subject:** Re: FW: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 64949

Aaron,

Wonderful news! Would you like me to complete the surface scrape on-pad once we complete the off-pad spill remediation?

Thanks,

**Ashley Giovengo**, Environmental Manager - Permian

O (218) 724-1322 | C (505) 382-1211

**WescomInc.com** | ashley.giovengo@WescomInc.com

"I am in charge of my own safety."

Minnesota | North Dakota | New Mexico | Wisconsin

On Mon, Feb 7, 2022 at 7:58 AM Aaron Daniels <aarond@kfoc.net> wrote:

Approval in writing for the depth to water.

AD

**From:** Hensley, Chad, EMNRD <Chad.Hensley@state.nm.us>

**Sent:** Monday, February 7, 2022 8:49 AM

**To:** Aaron Daniels <aarond@kfoc.net>

**Cc:** Charles Lock <CharlesL@kfoc.net>

**Subject:** RE: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 64949

Aaron,

When you turn in your Workplan and/or Closure report please include this email chain information and yes it should be allowed.

Cheers,

**Chad Hensley** • Environmental Science & Specialist

Environmental Bureau

EMNRD - Oil Conservation Division

811 First St. | Artesia, NM 88210

Office: 575.748.1283 | Cell: 575-703-1723

chad.hensley@state.nm.us

3/17/22, 3:07 PM

Wescom Inc Mail - RE: FW: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 64949

<http://www.emnrd.state.nm.us/OCD/>

**From:** Aaron Daniels <aarond@kfoc.net>  
**Sent:** Monday, February 7, 2022 7:37 AM  
**To:** Hensley, Chad, EMNRD <Chad.Hensley@state.nm.us>  
**Cc:** Charles Lock <CharlesL@kfoc.net>  
**Subject:** RE: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 64949

Chad – hope you are doing well.

Wanted to ask, instead of assuming....

As you are probably aware, we had an additional produced water release on the North Bell Lake 4-15 SWD location.

You approved this well as depth to water for the referenced spill (nAPP2116429491) in this message. Will this be accepted for the new spill (nAPP2200646019) at the same location?

Thanks,

AD

**From:** Aaron Daniels  
**Sent:** Tuesday, January 11, 2022 1:19 PM  
**To:** Hensley, Chad, EMNRD <Chad.Hensley@state.nm.us>  
**Cc:** Charles Lock <CharlesL@kfoc.net>  
**Subject:** RE: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 64949

Hey Chad,

Wanted to provide you with some information based on our last conversation.

The water well information I spoke to you about is attached, and was utilized for the release numbered nAPP2107043534 (NBL 4-15 SWD Produced Water Line).

It is ~0.66 miles from the 4-15 pad, on down the lease road to the East. See the screenshot below illustrating this. Let me know if you need more information from me.

I appreciate your consideration. Good luck today!



3/17/22, 3:07 PM

Wescom Inc Mail - RE: FW: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 64949

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- ☒ ARKANSAS WELLS
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- ☒ KANSAS WELLS
- ☒ LOUISIANA PIPELINES
- ☒ LOUISIANA WELLS
- ☒ NEW MEXICO PIPELINES
- ☒ NEW MEXICO WELLS
- ☒ NORTH DAKOTA WELLS
- ☒ OKLAHOMA COMPRESSOR STATIONS
- ☒ OKLAHOMA PIPELINES
- ☒ OKLAHOMA WELLS
- ☒ TEXAS PIPELINES
- ☒ TEXAS WELLS

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**From:** Aaron Daniels  
**Sent:** Monday, January 10, 2022 3:54 PM  
**To:** Hensley, Chad, EMNRD <Chad.Hensley@state.nm.us>  
**Cc:** Charles Lock <CharlesL@kfoc.net>  
**Subject:** RE: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 64949

Chad,

Hope you had a good weekend.

Wanted to check in and see if you received any feedback from Mike on the water depth for this project.

Thanks,

AD

**From:** Aaron Daniels  
**Sent:** Wednesday, December 29, 2021 12:54 PM  
**To:** Hensley, Chad, EMNRD <Chad.Hensley@state.nm.us>

3/17/22, 3:07 PM

Wescom Inc Mail - RE: FW: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 64949

Cc: Charles Lock &lt;CharlesL@kfoc.net&gt;

Subject: FW: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 64949

Chad,

Would you have time to discuss this next week sometime?

Let me know your availability.

Thanks,

Aaron Daniels

Sr. EHS Representative

Kaiser-Francis Oil Company

918-491-4352

From: OCDOnline@state.nm.us &lt;OCDOnline@state.nm.us&gt;

Sent: Wednesday, December 29, 2021 12:28 PM

To: Aaron Daniels &lt;aarond@kfoc.net&gt;

Subject: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 64949

To whom it may concern (c/o Aaron Daniels for KAISER-FRANCIS OIL CO),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2116429491, for the following reasons:

- The depth to groundwater has not been adequately determined. When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ r submission. The responsible party may choose to remediate to the most stringent levels listed in Table 1 of 19.15.29 NMAC in lieu of drilling to determine the depth to g
- RECLAMATION did not meet the requirements of 19.15.29.13 NMAC. All off pad areas must contain a minimum of 4 feet non-waste containing uncontaminated, earthen i

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 64949.

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,

Chad Hensley

Environmental Science &amp; Specialist

575-703-1723

Chad.Hensley@state.nm.us

New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive

Santa Fe, NM 87505

# ATTACHMENT G

## 48-Hour Confirmation Sampling Notification Emails



**Energizing America**

**wescominc.com** | info@wescominc.com | 218-724-1322

**NBL Unit 4 #15 SWD** | Incident ID: nAPP2116429491



3/18/22, 2:17 PM

Wescom Inc Mail - 48-Hour Confirmation Sample Notice - nAPP2116429491



Ashley Giovengo &lt;ashley.giovengo@wescominc.com&gt;

**48-Hour Confirmation Sample Notice - nAPP2116429491**

1 message

Ashley Giovengo &lt;ashley.giovengo@wescominc.com&gt;

Wed, Oct 13, 2021 at 7:16 PM

To: "Hamlet, Robert, EMNRD" <Robert.hamlet@state.nm.us>, "Hensley, Chad, EMNRD" <Chad.Hensley@state.nm.us>, "Bratcher, Mike, EMNRD" <mike.bratcher@state.nm.us>, "Venegas, Victoria, EMNRD" <Victoria.venegas@state.nm.us>  
Cc: Shar Harvester <shar.harvester@wescominc.com>, Cole Burton <cole.burton@wescominc.com>, Charles Lock <charlesl@kfoc.net>, Aaron Daniels <aarond@kfoc.net>, Ramon Rodriguez <RamonR@kfoc.net>, EHSDB@kfoc.net

Hello All,

We intend to take confirmation samples at the North Bell Lake Unit 4 #15 SWD - nAPP2116429491 starting on (10/18) thru (10/20).

Please let us know if you plan to be onsite to oversee this sampling event.

Thank you,

**Ashley Giovengo**, Environmental Manager - Permian

O (218) 724-1322 | C (505) 382-1211

**WescomInc.com** | ashley.giovengo@WescomInc.com*"I am in charge of my own safety."*

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3/18/22, 2:16 PM

Wescom Inc Mail - 48-hour Confirmation Sampling Notification - North Bell Lake 4 #15 SWD (nAPP2116429491)



Ashley Giovengo &lt;ashley.giovengo@wescominc.com&gt;

## 48-hour Confirmation Sampling Notification - North Bell Lake 4 #15 SWD (nAPP2116429491)

1 message

Ashley Giovengo &lt;ashley.giovengo@wescominc.com&gt;

Fri, Mar 4, 2022 at 6:53 AM

To: "Velez, Nelson, EMNRD" <nelson.velez@state.nm.us>, "Hensley, Chad, EMNRD" <Chad.Hensley@state.nm.us>, "Billings, Bradford, EMNRD" <bradford.billings@state.nm.us>, "Nobui, Jennifer, EMNRD" <jennifer.nobui@state.nm.us>, "Hamlet, Robert, EMNRD" <Robert.hamlet@state.nm.us>, "Bratcher, Mike, EMNRD" <mike.bratcher@state.nm.us>  
Cc: Shar Harvester <shar.harvester@wescominc.com>, Aaron Daniels <aarond@kfoc.net>, Cole Burton <cole.burton@wescominc.com>

Hello All,

We intend to take confirmation samples at the North Bell Lake 4 #15 SWD #002H - nAPP2116429491 starting on (03/07/22).

Please let us know if you plan to be onsite to oversee this sampling event.

Thanks,

**Ashley Giovengo**, Environmental Manager - Permian

O (218) 724-1322 | C (505) 382-1211

WescomInc.com | ashley.giovengo@WescomInc.com

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

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

CONDITIONS  
  
Action 93564

CONDITIONS

Operator: KAISER-FRANCIS OIL CO PO Box 21468 Tulsa, OK 74121146	OGRID: 12361
	Action Number: 93564
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	5/3/2022