

NV



REMEDIATION PLAN

Created for submission to New Mexico Oil Conservation Division on 07/31/2023

SHARLENE HARVESTER
Senior Environmental Scientist

ENERGIZING AMERICA

July 31, 2023

Environmental Incident Group

State of New Mexico

Energy, Minerals, and Natural Resources

New Mexico Oil Conservation Division

811 South First Street

Artesia, New Mexico 88210

RE: REMEDIATION PLAN

COMPANY	Kaiser Francis Oil Company
LOCATION	North Bell Lake Pad #6
API	30-025-47770
PLSS	Unit E Sec 06 T23S R34E
GPS	32.33512, -103.51409
INCIDENT ID	nAPP2234143414

BACKGROUND

Wescom, Inc., hereafter referred to as Wescom, has prepared this Remediation Plan on behalf of Kaiser-Francis Oil Company, hereafter referred to as Kaiser-Francis Oil Company, regarding the release at the North Bell Lake Pad #6 (Site) located in Unit E, Section 06 Township 23 South and Range 34 East in Lea County, New Mexico. The GPS coordinates are as follows: North 32.33512 and West -103.51409. Surface owner of the Site is Bureau of Land Management (BLM).

On December 07, 2022 a vessel over-pressure during ventless flowback operations resulted in release and flash fire. All producing wells were immediately shut in. The impacted area was secured to protect human health and the environment. Kaiser-Francis Oil Company estimates the amount of fluid released to be approximately 10 bbls of crude oil and 20 bbls of produced water. The spill area is located on the East side of the wellhead as shown in Figure 1.

Wescom personnel arrived onsite on February 03, 2023, to begin horizontal and vertical delineation of the spill area. On July 12, 2023, Wescom personnel returned to the Site to begin excavation of impacted soils and on July 21, 2023 and July 27, 2023, to collect final confirmation samples.



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North Bell Lake Pad #6 | Incident ID: nAPP2234143414

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SURFACE & GROUND WATER

Well log data filled with the New Mexico Office of the State Engineer (OSE) for CP-1935 POD1, verifies DTW exceeds 101 feet below ground surface bgs and is 199 feet Southeast 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.

Closure Criteria (19.15.29.12.B(4) and Table 1 NMAC)						
North Bell Lake Pad #6 — 32.33512, -103.51409						
Depth to Groundwater		Closure Criteria (units 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
No water data within 0.5 mile radius		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		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 floodplain?	No					

Table: Closure Criteria Statistics

TARGET REMEDIAL LEVELS

Well log files submitted to OSE and USGS indicate that the depth to water (DTW) exceeds 101 feet bgs in the area surrounding the Site which verifies the use of the highest Remediation Action Levels (RRALs). The target cleanup levels are determined using the NMOCD Closure Criteria (19.15.29.12.B(4) and Table 1 NMAC, inserted above) including karst guidelines from the Bureau of Land Management. The applicable (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) and 1000 ppm combined Gasoline Range Organics (GRO)



and Diesel Range Organics (DRO). A chloride concentration at or below 20000 mg/kg (ppm) in the soil is also required.

SITE ASSESSMENT AND DELINEATION

On February 3, 2023, Kaiser-Francis Oil Company contracted Wescom to complete horizontal and vertical delineation of the spill area. A total of 6 samples were jarred and sent to Envirotech, for laboratory analysis and all samples were below applicable RRALs for the Site. A background sample, BG01, was collected 56 feet to the South of the caliche pad. Delineation sample locations are presented in Figure 1; laboratory analysis results are presented in Table 1 and laboratory analytical reports are included in Attachment E.

REMEDIATION ACTIVITIES

Beginning on July 11, 2023, Wescom personnel arrived onsite to conduct a surface scrape to remove impacted soil at the spill area. A skid-steer was utilized to remove contaminated soil from the area surrounding the wellhead and impacted material was hauled to an approved disposal facility.

Wescom personnel collected 52 composite confirmation samples on July 24, 2023. On July 27, 2023, Wescom personnel returned to conduct additional excavation and collect samples from 18 confirmation areas which exceeded the applicable RRALs. A backhoe was used to remove approximately 44 yards of contaminated soil from the spill area. An additional 29 confirmation sample areas are scheduled to be excavated and sampled August 3rd and 4th, 2023.

All soil samples were properly packaged, preserved, and transported to Hall Environmental by chain of custody, and analyzed for Total Petroleum Hydrocarbons, or TPH, —Method 8015D, BTEX—Method 8021B, and Chlorides—Method 300.0. Confirmation sample locations are presented in Figure 3 and laboratory analytical reports are included in Attachment E.

The required 48-hour confirmation sampling notification was sent on July 19, 2023, and July 25, 2023, to OCD.Enviro@emnrd.nm.gov and are included in Attachment F.

REQUEST FOR REMEDIATION PLAN APPROVAL

On behalf of Kaiser-Francis Oil Company, Wescom hereby requests approval of the Remediation Plan for the release associated with incident number nAPP2234143414 based on the logic below.

- The spill area has been horizontally and vertically delineated.
- 23 of 52 confirmation area samples are below applicable RRALs for the Site.
- 29 confirmation areas are scheduled for additional excavation and resampled.
- 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 Ms. Sharlene Harvester at (218) 335-8047.

Sincerely,

Wescom, Inc.

Sharlene Harvester

Senior Environmental Scientist

cc: Hutton Andrew, Kaiser-Francis Oil Company

Aaron Daniels, Kaiser-Francis Oil Company

Environmental Incident Group, NMOCD



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REFERENCE MATERIALS

FIGURES

FIGURE 1. Delineation Sampling

FIGURE 2. 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 Laboratory Analysis Reports

ATTACHMENT F. 48-hour Confirmation Notification Emails

ATTACHMENT G. Extension Request



FIGURES

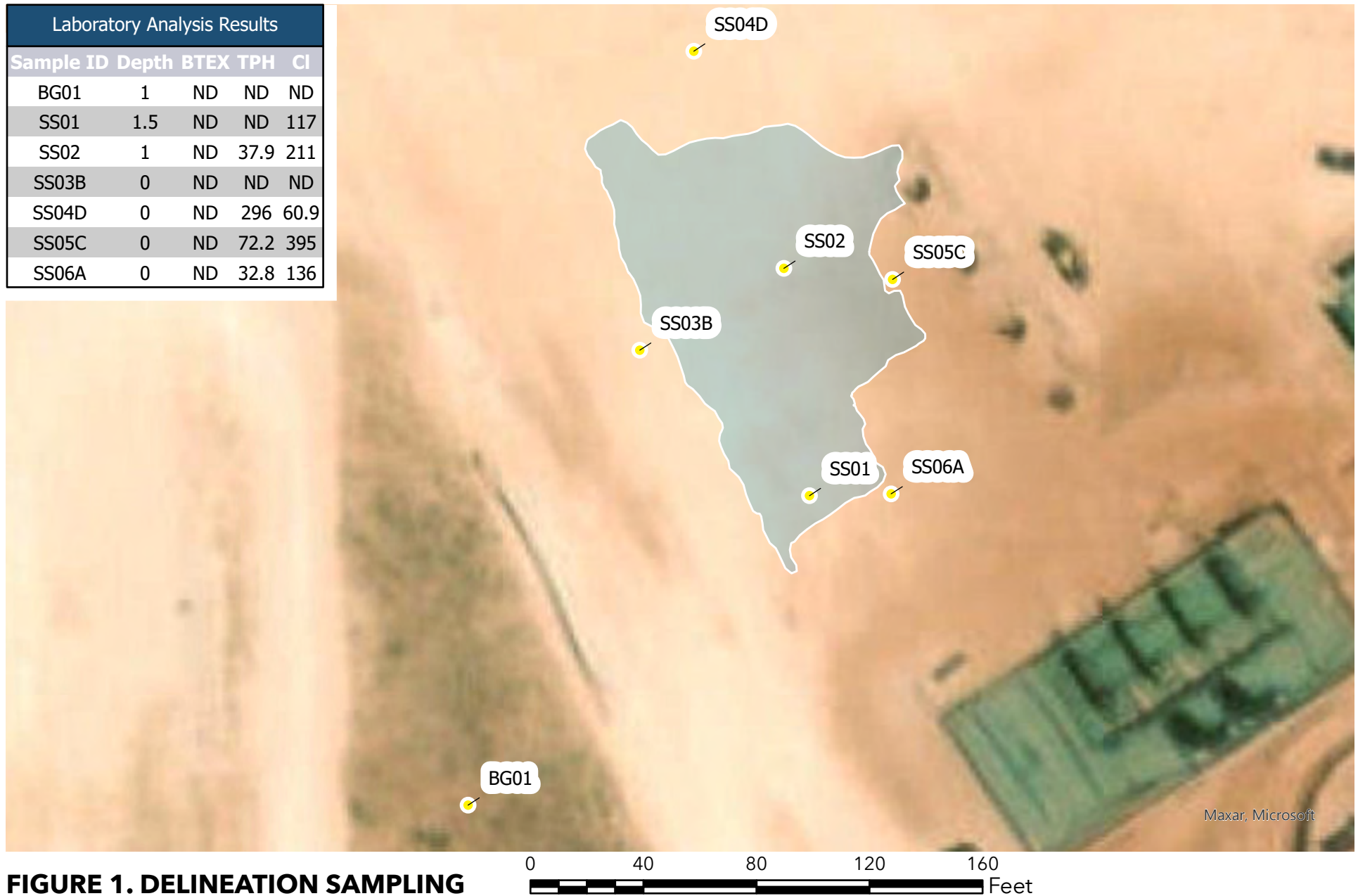


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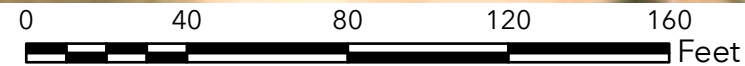
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Laboratory Analysis Results				
Sample ID	Depth	BTEX	TPH	CI
BG01	1	ND	ND	ND
SS01	1.5	ND	ND	117
SS02	1	ND	37.9	211
SS03B	0	ND	ND	ND
SS04D	0	ND	296	60.9
SS05C	0	ND	72.2	395
SS06A	0	ND	32.8	136

**FIGURE 1. DELINEATION SAMPLING**

North Bell Lake Pad #6
 Incident ID: nAPP2234143414
 API: 30-025-47770
 GPS Coordinates: 32.33512, -103.51409
 Lea County, New Mexico
 Kaiser-Francis Oil Company

Released to Imaging: 11/20/2023 10:09:03 AM

**LEGEND**

- Delineation Sample Locations
- Spill Area



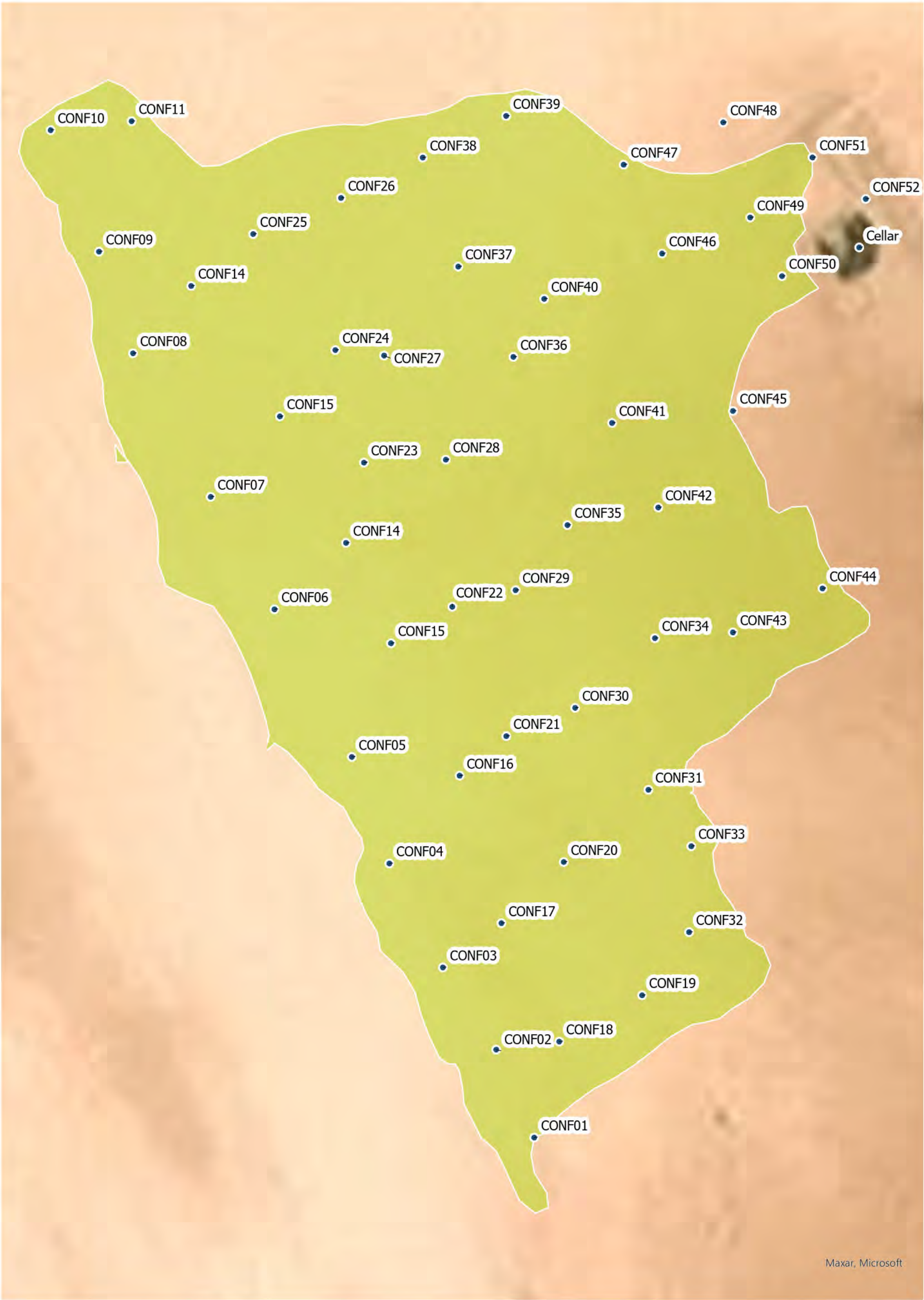
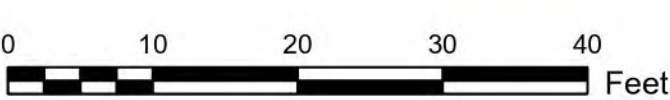


FIGURE 2.
CONFIRMATION SAMPLES

North Bell Lake Pad #6
Incident ID: nAPP2234143414
API: 30-025-47770
GPS Coordinates: 32.33512, -103.51409
Lea County, New Mexico
Kaiser-Francis Oil Company



LEGEND

- Confirmation Samples
- Confirmation_Area
- Spill Area



TABLES



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North Bell Lake Pad #6 | Incident ID: nAPP2234143414

North Bell Lake Pad #6 nAPP2234143414							
Kaiser-Francis Oil Company 07/28/2023							
Table 1. Laboratory Analysis Results: Delineation Samples							
Sample Description			Petroleum Hydrocarbons				Inorganic
Sample ID	Depth (ft.)	Date	Volatile		Extractable		Chloride (mg/kg)
			Benzene (mg/kg)	BTEX (total) (mg/kg)	TPH (mg/kg)	GRO+DRO (mg/kg)	
Closure Criteria			10	50	2500	1000	20000
BG01	0	2/3/2023	ND	ND	28.4	28.4	ND
BG01	1	2/3/2023	ND	ND	ND	ND	ND
SS01	1.5	2/3/2023	ND	ND	ND	ND	117
SS02	1	2/3/2023	ND	ND	37.9	37.9	211
SS03B	0	2/3/2023	ND	ND	ND	ND	ND
SS04D	0	2/3/2023	ND	ND	296	165	60.9
SS05C	0	2/3/2023	ND	ND	72.2	72.2	395
SS06A	0	2/3/2023	ND	ND	32.8	32.8	136
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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North Bell Lake Pad #6 | Incident ID: nAPP2234143414

North Bell Lake Pad #6 nAPP2234143414							
Kaiser-Francis Oil Company 07/28/2023							
Table 2. Laboratory Analysis Results: Confirmation Samples							
Sample Description			Petroleum Hydrocarbons				Inorganic
Sample ID	Depth (ft.)	Date	Volatile		Extractable		Chloride (mg/kg)
			Benzene (mg/kg)	BTEX (total) (mg/kg)	TPH (mg/kg)	GRO+DRO (mg/kg)	
Closure Criteria			10	50	2500	1000	20000
CONF01	0	7/21/2023	ND	ND	2543	1590	2350
CONF02	0	7/21/2023	ND	ND	2419	1450	2090
CONF03	0	7/21/2023	ND	ND	2590	1540	1110
CONF04	0	7/21/2023	ND	ND	1859	1010	3020
CONF4A	0	7/27/2023	ND	ND	ND	ND	632
CONF05	0	7/21/2023	ND	ND	1694	1090	2660
CONF06	0	7/21/2023	ND	ND	2860	1660	2050
CONF6A	0	7/27/2023	ND	ND	ND	ND	20
CONF07	0	7/21/2023	ND	ND	996	511	1930
CONF7A	0	7/27/2023	ND	ND	ND	ND	34.1
CONF08	0	7/21/2023	ND	ND	2042	1130	2750
CONF8A	0	7/27/2023	ND	ND	ND	ND	23.9
CONF09	0	7/21/2023	ND	ND	2060	1170	2690
CONF9A	0	7/27/2023	ND	ND	ND	ND	46.9
CONF10	0	7/21/2023	ND	ND	1310	1310	2190
CONF10A	0	7/27/2023	ND	ND	ND	ND	26.8
CONF11	0	7/21/2023	ND	ND	4890	2980	3680
CONF11A	0	7/27/2023	ND	ND	ND	ND	26.2
CONF12	0	7/21/2023	ND	ND	2810	1390	1860
CONF13	0	7/21/2023	ND	ND	3990	2440	1010
CONF14	0	7/21/2023	ND	ND	2557	1590	1650
CONF15	0	7/21/2023	ND	ND	3010	1680	2780
CONF15A	0	7/27/2023	ND	ND	89	89	1650
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							
Bold Black - Resampled confirmation area results							
Gray Highlighted - To be resampled							



North Bell Lake Pad #6 nAPP2234143414							
Kaiser-Francis Oil Company 07/28/2023							
Table 2. Laboratory Analysis Results: Confirmation Samples							
Sample Description			Petroleum Hydrocarbons				Inorganic
Sample ID	Depth (ft.)	Date	Volatile		Extractable		Chloride (mg/kg)
			Benzene (mg/kg)	BTEX (total) (mg/kg)	TPH (mg/kg)	GRO+DRO (mg/kg)	
Closure Criteria			10	50	2500	1000	20000
CONF16	0	7/21/2023	ND	ND	5060	3310	1170
CONF16A	0	7/27/2023	ND	ND	98.1	98.1	1430
CONF17	0	7/21/2023	ND	ND	1250	1250	1250
CONF18	0	7/21/2023	ND	ND	2880	1580	1770
CONF19	0	7/21/2023	ND	ND	1915	1110	4280
CONF20	0	7/21/2023	ND	ND	842	516	2070
CONF21	0	7/21/2023	ND	ND	2980	1580	3750
CONF21A	0	7/27/2023	ND	ND	ND	ND	795
CONF22	0	7/21/2023	ND	ND	1886	962	3330
CONF23	0	7/21/2023	ND	ND	2000	2000	2420
CONF24	0	7/21/2023	ND	ND	2530	2530	3270
CONF24A	0	7/27/2023	ND	ND	92.8	92.8	2370
CONF25	0	7/21/2023	ND	ND	2223	1420	2140
CONF26	0	7/21/2023	ND	ND	2760	1410	7330
CONF26A	0	7/27/2023	ND	ND	139.6	66.8	3680
CONF27	0	7/21/2023	ND	ND	2080	1040	2760
CONF28	0	7/21/2023	ND	ND	2910	1370	3140
CONF29	0	7/21/2023	ND	ND	4710	3000	3600
CONF30	0	7/21/2023	ND	ND	1000	1000	1720
CONF31	0	7/21/2023	ND	ND	2079	1420	1540
CONF32	0	7/21/2023	ND	ND	2850	1770	2210
CONF33	0	7/21/2023	ND	ND	2156	1280	1870
CONF34	0	7/21/2023	ND	ND	5070	3130	4010
CONF34A	0	7/27/2023	ND	ND	ND	ND	736
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							
Bold Black - Resampled confirmation area results							
Gray Highlighted - To be resampled							



North Bell Lake Pad #6 nAPP2234143414							
Kaiser-Francis Oil Company 07/28/2023							
Table 2. Laboratory Analysis Results: Confirmation Samples							
Sample Description			Petroleum Hydrocarbons				Inorganic
Sample ID	Depth (ft.)	Date	Volatile		Extractable		Chloride (mg/kg)
			Benzene (mg/kg)	BTEX (total) (mg/kg)	TPH (mg/kg)	GRO+DRO (mg/kg)	
Closure Criteria			10	50	2500	1000	20000
CONF35	0	7/21/2023	ND	ND	5620	3240	4120
CONF35A	0	7/27/2023	ND	ND	ND	ND	931
CONF36	0	7/21/2023	ND	ND	1846	935	4970
CONF37	0	7/21/2023	ND	ND	1690	1020	4330
CONF38	0	7/21/2023	ND	ND	2003	1260	7960
CONF39	0	7/21/2023	ND	ND	2104	1300	8290
CONF40	0	7/21/2023	ND	ND	3960	2660	1890
CONF40A	0	7/27/2023	ND	ND	ND	ND	715
CONF41	0	7/21/2023	ND	ND	3240	1840	2460
CONF41A	0	7/27/2023	ND	ND	ND	ND	680
CONF42	0	7/21/2023	ND	ND	2370	1210	3280
CONF43	0	7/21/2023	ND	ND	1170	1170	3920
CONF44	0	7/21/2023	ND	ND	2035	1040	3990
CONF45	0	7/21/2023	ND	ND	944	944	3990
CONF46	0	7/21/2023	ND	ND	2360	1350	4140
CONF47	0	7/21/2023	ND	ND	2270	1200	3730
CONF48	0	7/21/2023	ND	ND	2016	1050	6980
CONF49	0	7/21/2023	ND	ND	4990	2330	4410
CONF49A	0	7/27/2023	ND	ND	ND	ND	44.6
CONF50	0	7/21/2023	ND	ND	3430	2110	4870
CONF50A	0	7/27/2023	ND	ND	ND	ND	34.3
CONF51	0	7/21/2023	ND	ND	2397	1610	2770
CONF52	0	7/21/2023	ND	ND	1715	1130	4690
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							
Bold Black - Resampled confirmation area results							
Gray Highlighted - To be resampled							



ATTACHMENT A

Signed C-141



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North Bell Lake Pad #6 | Incident ID: nAPP2234143414

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	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Kaiser-Francis Oil Company	OGRID 12361
Contact Name: Hutton Andrew	Contact Telephone: 918-491-4615
Contact email: huttona@kfoc.net	Incident # (assigned by OCD) nAPP2234143414
Contact mailing address: 6733 S. Yale, Tulsa, OK 74136	

Location of Release Source

Latitude 32.33512

Longitude -103.51409

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: North Bell Lake Pad #6	Site Type: Well Pad
Date Release Discovered: 12/07/2022	API# (if applicable) 30-025-47770

Unit Letter	Section	Township	Range	County
E	06	23S	34E	Lea

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private

Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 10	Volume Recovered (bbls) 0
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 20	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Vessel over-pressure during ventless flowback operations resulted in release and flash fire.

Form C-141

State of New Mexico

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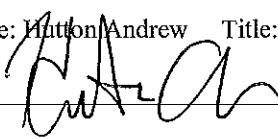
Oil Conservation Division

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? A flash fire resulted from the tank over-pressure.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes. Aaron Daniels. NMOCD Portal via NOR on 12/07/22.	

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: Hutton, Andrew Title: EHS Lead Signature:  Date: 12-20-22 email: huttona@kfoc.net Telephone: 918-491-4615
<u>OCD Only</u> Received by: _____ Date: _____

ATTACHMENT B

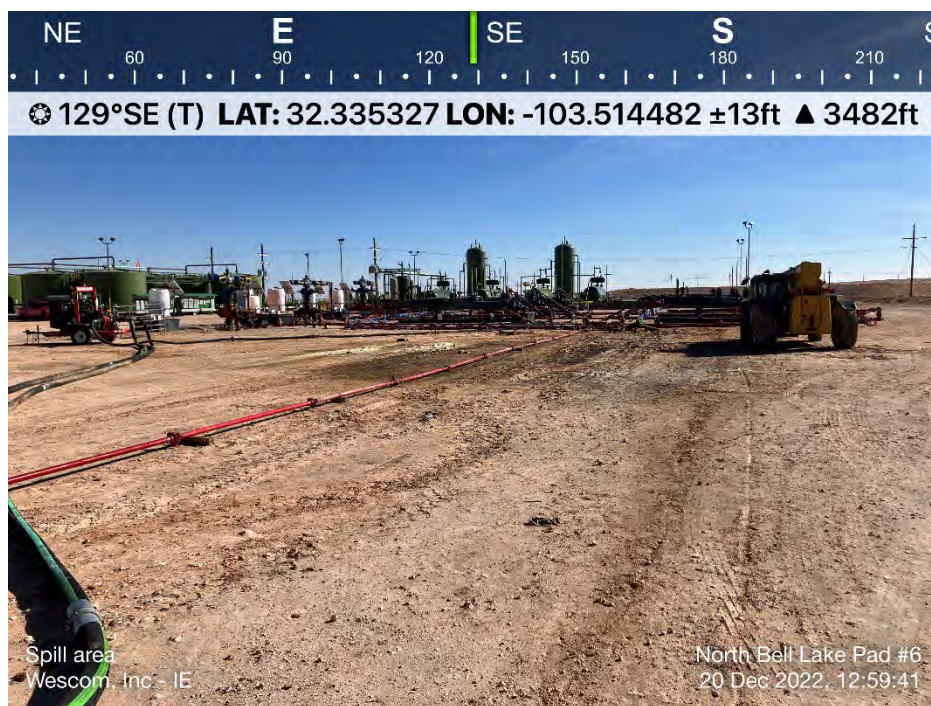
Site Photos



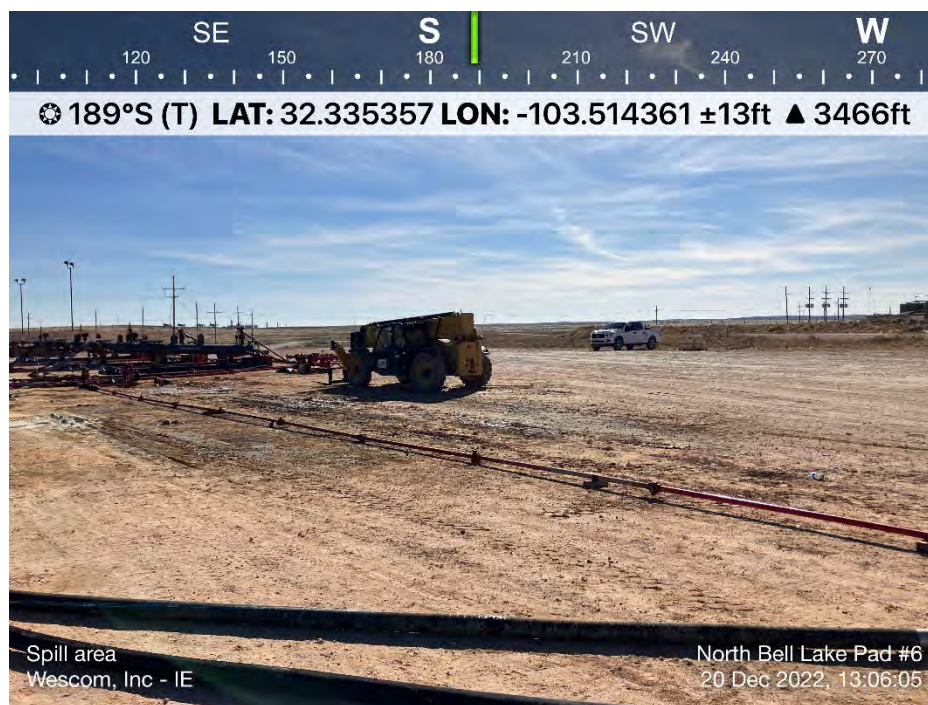
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North Bell Lake Pad #6 | Incident ID: nAPP2234143414



Original Spill Area



Original Spill Area

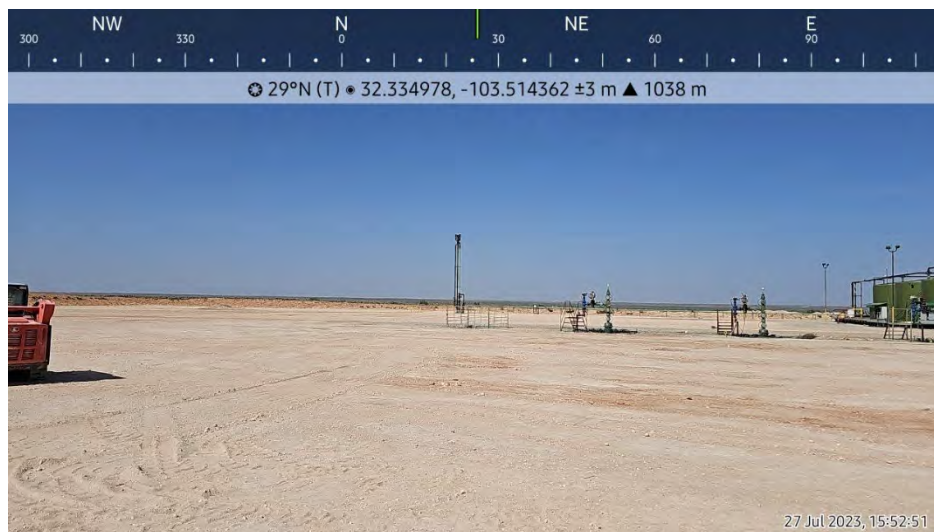


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North Bell Lake Pad #6 | Incident: nAPP2234143414

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Scraped Spill Area



Scraped Spill Area



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North Bell Lake Pad #6 | Incident: nAPP2234143414

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ATTACHMENT C

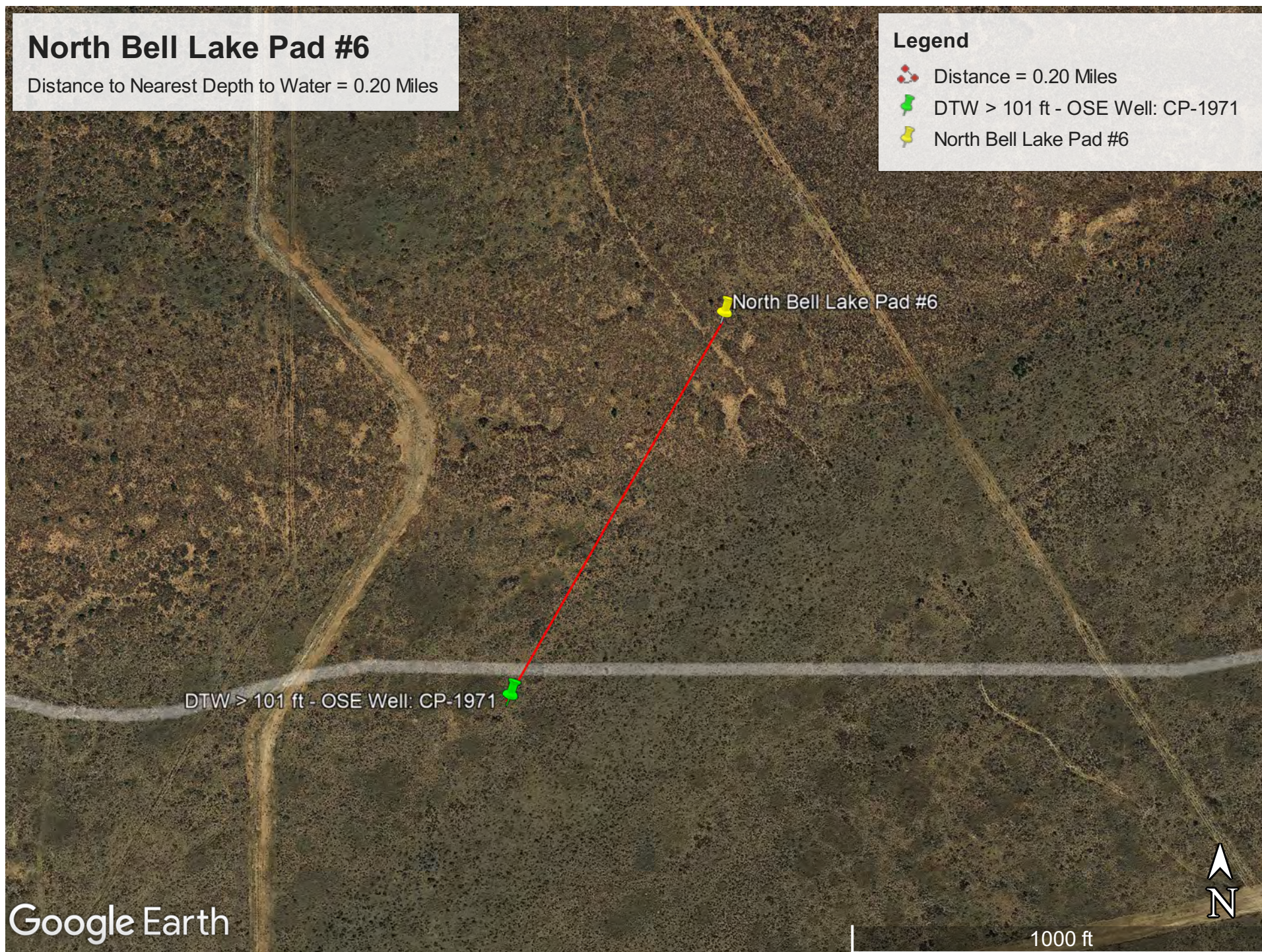
Closure Criteria Supporting Documents



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North Bell Lake Pad #6 | Incident ID: nAPP2234143414



National Flood Hazard Layer FIRMMette



103°31'9"W 32°20'22"N



Legend

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

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

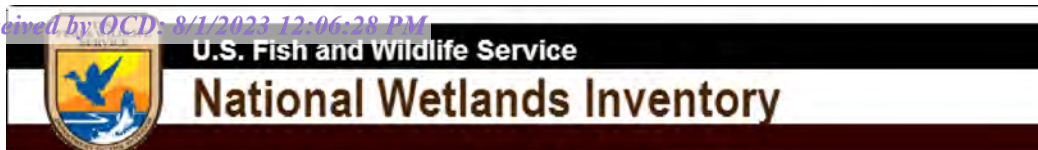


The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 12/20/2022 at 11:30 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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



North Bell Lake Pad #6 - Fresh Water Pond 1.4 Miles



December 20, 2022

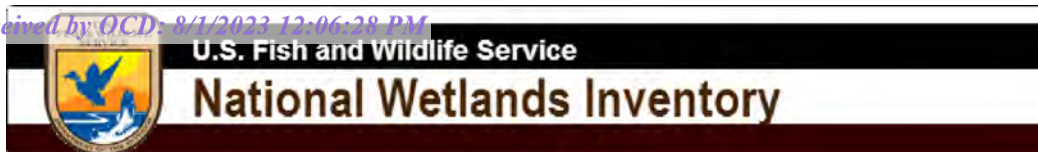
Wetlands

- 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 Pad #6 - Riverine 0.47 Miles



December 20, 2022

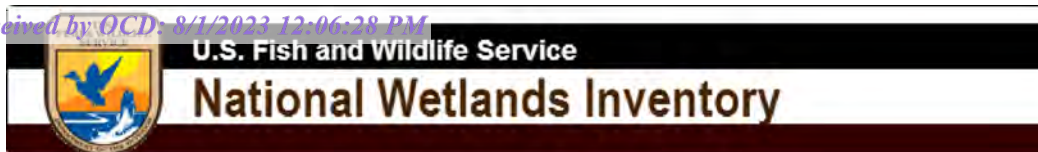
Wetlands

- 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 Pad #6 - Wetland 2.53 Miles



December 20, 2022

Wetlands

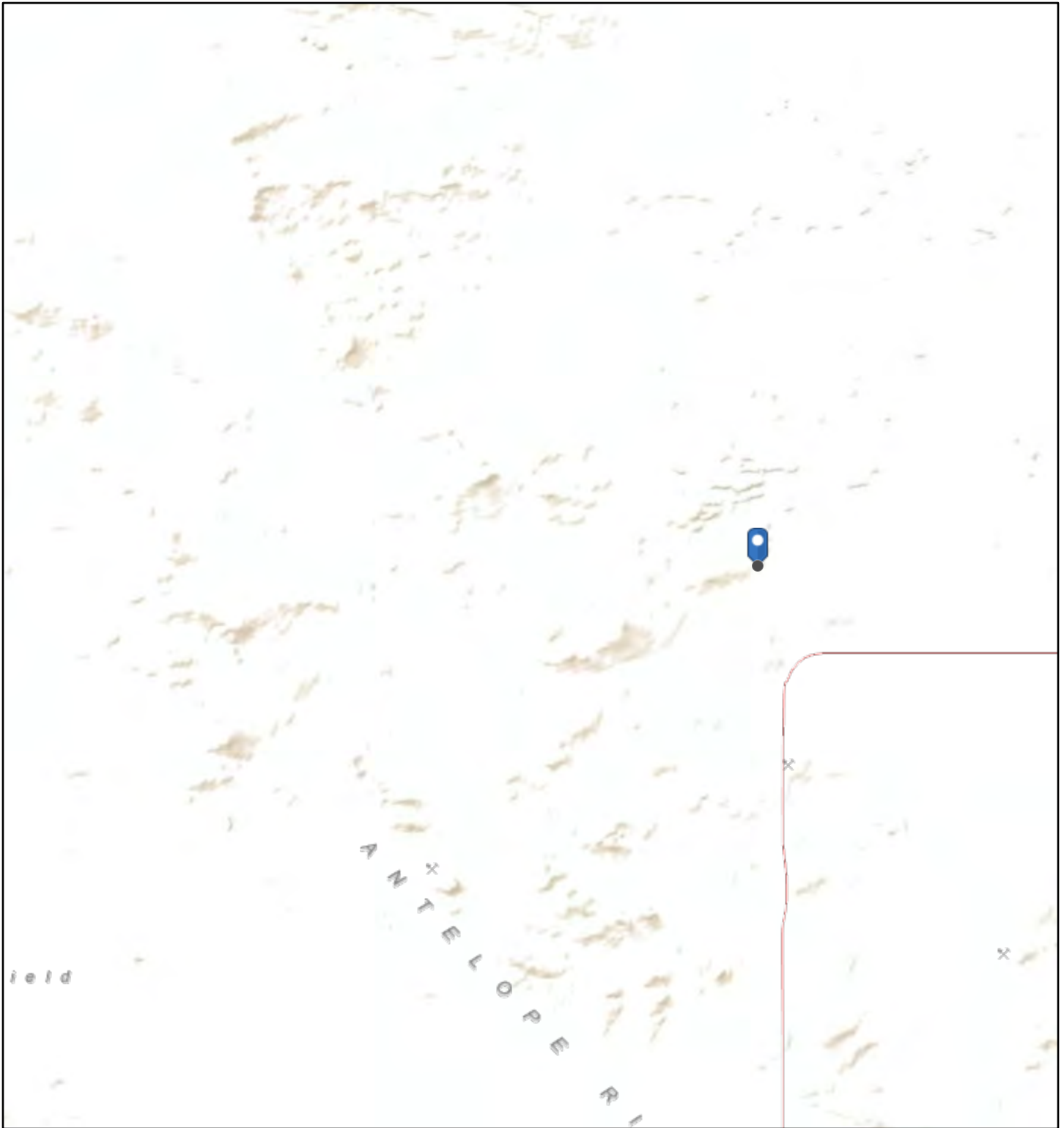
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- 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.

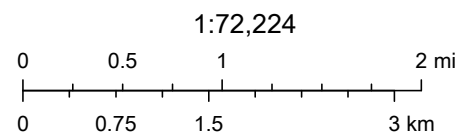
Active Mines near North Bell Lake Pad #6



12/20/2022, 9:42:48 AM

Registered Mines

x Aggregate, Stone etc.







Sources: Esri, USGS, NOAA, Sources: Esri, Garmin, USGS, NPS

North Bell Lake Pad #6

Distance to Nearest Residence = 2.99 Miles

Legend

-  Distance = 2.99 Miles
-  Nearest Residence
-  North Bell Lake Pad #6
-  Point of Release

North Bell Lake Pad #6

Nearest Residence

Google Earth

1 mi



ATTACHMENT D

Karst Map



Energizing America

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

North Bell Lake Pad #6 | Incident ID: nAPP2234143414

North Bell Lake Pad #6

Karst Potential = Low

Legend

- 01 Low
- 02 Medium
- 03 High
- North Bell Lake Pad #6
- Point of Release

North Bell Lake Pad #6



ATTACHMENT E

Envirotech Inc. Laboratory Analysis Reports



Energizing America

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

North Bell Lake Pad #6 | Incident ID: nAPP2234143414

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Kaiser Francis Oil Company

Project Name: NBL Pad #6 12-7-2022 Spill

Work Order: E302030

Job Number: 21022-0001

Received: 2/7/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/9/23

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: 2/9/23

Ashley Giovengo
1224 Standpipe Rd
Carlsbad, NM 88220



Project Name: NBL Pad #6 12-7-2022 Spill
Workorder: E302030
Date Received: 2/7/2023 8:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/7/2023 8:15:00AM, under the Project Name: NBL Pad #6 12-7-2022 Spill.

The analytical test results summarized in this report with the Project Name: NBL Pad #6 12-7-2022 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
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Rayny Hagan
Technical Representative
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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: NBL Pad #6 12-7-2022 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	Reported: 02/09/23 16:13
---	--	-----------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BG01 - 0'	E302030-01A	Soil	02/03/23	02/07/23	Glass Jar, 4 oz.
BG01 - 1'	E302030-02A	Soil	02/03/23	02/07/23	Glass Jar, 4 oz.
SS01 - 1.5'	E302030-03A	Soil	02/03/23	02/07/23	Glass Jar, 4 oz.
SS02 - 1'	E302030-04A	Soil	02/03/23	02/07/23	Glass Jar, 4 oz.
SS03B - 0'	E302030-05A	Soil	02/03/23	02/07/23	Glass Jar, 4 oz.
SS04D - 0'	E302030-06A	Soil	02/03/23	02/07/23	Glass Jar, 4 oz.
SS05C - 0'	E302030-07A	Soil	02/03/23	02/07/23	Glass Jar, 4 oz.
SS06A - 0'	E302030-08A	Soil	02/03/23	02/07/23	Glass Jar, 4 oz.



Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: NBL Pad #6 12-7-2022 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	Reported: 2/9/2023 4:13:19PM
---	--	---------------------------------

BG01 - 0'

E302030-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2306019
Benzene	ND	0.0250	1	02/07/23	02/07/23	
Ethylbenzene	ND	0.0250	1	02/07/23	02/07/23	
Toluene	ND	0.0250	1	02/07/23	02/07/23	
o-Xylene	ND	0.0250	1	02/07/23	02/07/23	
p,m-Xylene	ND	0.0500	1	02/07/23	02/07/23	
Total Xylenes	ND	0.0250	1	02/07/23	02/07/23	
Surrogate: 4-Bromochlorobenzene-PID	102 %	70-130		02/07/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2306019
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/07/23	02/07/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.0 %	70-130		02/07/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: RAS			Batch: 2306043
Diesel Range Organics (C10-C28)	28.4	25.0	1	02/08/23	02/08/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/08/23	02/08/23	
Surrogate: n-Nonane	110 %	50-200		02/08/23	02/08/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2306032
Chloride	ND	20.0	1	02/07/23	02/07/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6 12-7-2022 Spill
Project Number: 21022-0001
Project Manager: Ashley Giovengo

Reported:
2/9/2023 4:13:19PM

BG01 - 1'

E302030-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2306019
Benzene	ND	0.0250	1	02/07/23	02/07/23	
Ethylbenzene	ND	0.0250	1	02/07/23	02/07/23	
Toluene	ND	0.0250	1	02/07/23	02/07/23	
o-Xylene	ND	0.0250	1	02/07/23	02/07/23	
p,m-Xylene	ND	0.0500	1	02/07/23	02/07/23	
Total Xylenes	ND	0.0250	1	02/07/23	02/07/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	02/07/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2306019
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/07/23	02/07/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.4 %	70-130	02/07/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2306043
Diesel Range Organics (C10-C28)	ND	25.0	1	02/08/23	02/08/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/08/23	02/08/23	
<i>Surrogate: n-Nonane</i>						
		110 %	50-200	02/08/23	02/08/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2306032
Chloride	ND	20.0	1	02/07/23	02/07/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6 12-7-2022 Spill
Project Number: 21022-0001
Project Manager: Ashley Giovengo

Reported:
2/9/2023 4:13:19PM

SS01 - 1.5'

E302030-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2306019
Benzene	ND	0.0250	1	02/07/23	02/07/23	
Ethylbenzene	ND	0.0250	1	02/07/23	02/07/23	
Toluene	ND	0.0250	1	02/07/23	02/07/23	
o-Xylene	ND	0.0250	1	02/07/23	02/07/23	
p,m-Xylene	ND	0.0500	1	02/07/23	02/07/23	
Total Xylenes	ND	0.0250	1	02/07/23	02/07/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	02/07/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2306019
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/07/23	02/07/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.3 %	70-130	02/07/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2306043
Diesel Range Organics (C10-C28)	ND	25.0	1	02/08/23	02/08/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/08/23	02/08/23	
<i>Surrogate: n-Nonane</i>						
		109 %	50-200	02/08/23	02/08/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2306032
Chloride	117	20.0	1	02/07/23	02/07/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6 12-7-2022 Spill
Project Number: 21022-0001
Project Manager: Ashley Giovengo

Reported:
2/9/2023 4:13:19PM

SS02 - 1'

E302030-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2306019	
Benzene	ND	0.0250	1	02/07/23	02/07/23	
Ethylbenzene	ND	0.0250	1	02/07/23	02/07/23	
Toluene	ND	0.0250	1	02/07/23	02/07/23	
o-Xylene	ND	0.0250	1	02/07/23	02/07/23	
p,m-Xylene	ND	0.0500	1	02/07/23	02/07/23	
Total Xylenes	ND	0.0250	1	02/07/23	02/07/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %	70-130	02/07/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2306019	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/07/23	02/07/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.5 %	70-130	02/07/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: RAS		Batch: 2306043	
Diesel Range Organics (C10-C28)	37.9	25.0	1	02/08/23	02/08/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/08/23	02/08/23	
<i>Surrogate: n-Nonane</i>		113 %	50-200	02/08/23	02/08/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2306032	
Chloride	211	20.0	1	02/07/23	02/07/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6 12-7-2022 Spill
Project Number: 21022-0001
Project Manager: Ashley Giovengo

Reported:
2/9/2023 4:13:19PM

SS03B - 0'

E302030-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2306019
Benzene	ND	0.0250	1	02/07/23	02/08/23	
Ethylbenzene	ND	0.0250	1	02/07/23	02/08/23	
Toluene	ND	0.0250	1	02/07/23	02/08/23	
o-Xylene	ND	0.0250	1	02/07/23	02/08/23	
p,m-Xylene	ND	0.0500	1	02/07/23	02/08/23	
Total Xylenes	ND	0.0250	1	02/07/23	02/08/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	02/07/23	02/08/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2306019
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/07/23	02/08/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.9 %	70-130	02/07/23	02/08/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2306043
Diesel Range Organics (C10-C28)	ND	25.0	1	02/08/23	02/08/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/08/23	02/08/23	
<i>Surrogate: n-Nonane</i>						
		104 %	50-200	02/08/23	02/08/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2306032
Chloride	ND	20.0	1	02/07/23	02/07/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6 12-7-2022 Spill
Project Number: 21022-0001
Project Manager: Ashley Giovengo

Reported:
2/9/2023 4:13:19PM

SS04D - 0'

E302030-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2306019
Benzene	ND	0.0250	1	02/07/23	02/08/23	
Ethylbenzene	ND	0.0250	1	02/07/23	02/08/23	
Toluene	ND	0.0250	1	02/07/23	02/08/23	
o-Xylene	ND	0.0250	1	02/07/23	02/08/23	
p,m-Xylene	ND	0.0500	1	02/07/23	02/08/23	
Total Xylenes	ND	0.0250	1	02/07/23	02/08/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	02/07/23	02/08/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2306019
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/07/23	02/08/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.2 %	70-130	02/07/23	02/08/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2306043
Diesel Range Organics (C10-C28)	165	25.0	1	02/08/23	02/08/23	
Oil Range Organics (C28-C36)	131	50.0	1	02/08/23	02/08/23	
<i>Surrogate: n-Nonane</i>						
		105 %	50-200	02/08/23	02/08/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2306032
Chloride	60.9	20.0	1	02/07/23	02/07/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6 12-7-2022 Spill
Project Number: 21022-0001
Project Manager: Ashley Giovengo

Reported:
2/9/2023 4:13:19PM

SS05C - 0'

E302030-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2306019
Benzene	ND	0.0250	1	02/07/23	02/08/23	
Ethylbenzene	ND	0.0250	1	02/07/23	02/08/23	
Toluene	ND	0.0250	1	02/07/23	02/08/23	
o-Xylene	ND	0.0250	1	02/07/23	02/08/23	
p,m-Xylene	ND	0.0500	1	02/07/23	02/08/23	
Total Xylenes	ND	0.0250	1	02/07/23	02/08/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	02/07/23	02/08/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2306019
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/07/23	02/08/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		90.9 %	70-130	02/07/23	02/08/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2306043
Diesel Range Organics (C10-C28)	72.2	25.0	1	02/08/23	02/08/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/08/23	02/08/23	
<i>Surrogate: n-Nonane</i>						
		101 %	50-200	02/08/23	02/08/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2306032
Chloride	395	20.0	1	02/07/23	02/07/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6 12-7-2022 Spill
Project Number: 21022-0001
Project Manager: Ashley Giovengo

Reported:
2/9/2023 4:13:19PM

SS06A - 0'

E302030-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2306019	
Benzene	ND	0.0250	1	02/07/23	02/08/23	
Ethylbenzene	ND	0.0250	1	02/07/23	02/08/23	
Toluene	ND	0.0250	1	02/07/23	02/08/23	
o-Xylene	ND	0.0250	1	02/07/23	02/08/23	
p,m-Xylene	ND	0.0500	1	02/07/23	02/08/23	
Total Xylenes	ND	0.0250	1	02/07/23	02/08/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %	70-130	02/07/23	02/08/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2306019	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/07/23	02/08/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.4 %	70-130	02/07/23	02/08/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: RAS		Batch: 2306043	
Diesel Range Organics (C10-C28)	32.8	25.0	1	02/08/23	02/08/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/08/23	02/08/23	
<i>Surrogate: n-Nonane</i>		102 %	50-200	02/08/23	02/08/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2306032	
Chloride	136	20.0	1	02/07/23	02/07/23	



QC Summary Data

Kaiser Francis Oil Company	Project Name:	NBL Pad #6 12-7-2022 Spill	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	2/9/2023 4:13:19PM

Volatile Organics by EPA 8021B

Analyst: SL

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 (2306019-BLK1)

Prepared: 02/07/23 Analyzed: 02/07/23

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	8.43		8.00		105	70-130			

LCS (2306019-BS1)

Prepared: 02/07/23 Analyzed: 02/08/23

Benzene	4.46	0.0250	5.00		89.3	70-130			
Ethylbenzene	4.55	0.0250	5.00		91.0	70-130			
Toluene	4.65	0.0250	5.00		92.9	70-130			
o-Xylene	4.77	0.0250	5.00		95.3	70-130			
p,m-Xylene	9.24	0.0500	10.0		92.4	70-130			
Total Xylenes	14.0	0.0250	15.0		93.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.13		8.00		102	70-130			

Matrix Spike (2306019-MS1)

Source: E302029-01

Prepared: 02/07/23 Analyzed: 02/07/23

Benzene	4.68	0.0250	5.00	ND	93.6	54-133			
Ethylbenzene	4.72	0.0250	5.00	ND	94.5	61-133			
Toluene	4.84	0.0250	5.00	ND	96.9	61-130			
o-Xylene	4.88	0.0250	5.00	ND	97.6	63-131			
p,m-Xylene	9.59	0.0500	10.0	ND	95.9	63-131			
Total Xylenes	14.5	0.0250	15.0	ND	96.5	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.38		8.00		105	70-130			

Matrix Spike Dup (2306019-MSD1)

Source: E302029-01

Prepared: 02/07/23 Analyzed: 02/07/23

Benzene	5.54	0.0250	5.00	ND	111	54-133	16.8	20	
Ethylbenzene	5.60	0.0250	5.00	ND	112	61-133	16.9	20	
Toluene	5.73	0.0250	5.00	ND	115	61-130	16.8	20	
o-Xylene	5.76	0.0250	5.00	ND	115	63-131	16.6	20	
p,m-Xylene	11.4	0.0500	10.0	ND	114	63-131	17.0	20	
Total Xylenes	17.1	0.0250	15.0	ND	114	63-131	16.8	20	
Surrogate: 4-Bromochlorobenzene-PID	8.10		8.00		101	70-130			



QC Summary Data

Kaiser Francis Oil Company	Project Name:	NBL Pad #6 12-7-2022 Spill	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	2/9/2023 4:13:19PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

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 (2306019-BLK1)

Prepared: 02/07/23 Analyzed: 02/07/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.92		8.00		86.5	70-130			

LCS (2306019-BS2)

Prepared: 02/07/23 Analyzed: 02/07/23

Gasoline Range Organics (C6-C10)	48.8	20.0	50.0		97.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.95		8.00		86.9	70-130			

Matrix Spike (2306019-MS2)

Source: E302029-01

Prepared: 02/07/23 Analyzed: 02/08/23

Gasoline Range Organics (C6-C10)	54.8	20.0	50.0	ND	110	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.70		8.00		96.3	70-130			

Matrix Spike Dup (2306019-MSD2)

Source: E302029-01

Prepared: 02/07/23 Analyzed: 02/07/23

Gasoline Range Organics (C6-C10)	52.0	20.0	50.0	ND	104	70-130	5.19	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.39		8.00		92.4	70-130			



QC Summary Data

Kaiser Francis Oil Company	Project Name:	NBL Pad #6 12-7-2022 Spill	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	2/9/2023 4:13:19PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

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 (2306043-BLK1)					Prepared: 02/08/23 Analyzed: 02/08/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.5		50.0		107	50-200			

LCS (2306043-BS1)					Prepared: 02/08/23 Analyzed: 02/08/23				
Diesel Range Organics (C10-C28)	257	25.0	250		103	38-132			
Surrogate: n-Nonane	52.7		50.0		105	50-200			

Matrix Spike (2306043-MS1)					Source: E302034-01		Prepared: 02/08/23 Analyzed: 02/08/23		
Diesel Range Organics (C10-C28)	275	25.0	250	ND	110	38-132			
Surrogate: n-Nonane	50.8		50.0		102	50-200			

Matrix Spike Dup (2306043-MSD1)					Source: E302034-01		Prepared: 02/08/23 Analyzed: 02/08/23		
Diesel Range Organics (C10-C28)	265	25.0	250	ND	106	38-132	3.74	20	
Surrogate: n-Nonane	46.4		50.0		92.8	50-200			



QC Summary Data

Kaiser Francis Oil Company	Project Name:	NBL Pad #6 12-7-2022 Spill	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	2/9/2023 4:13:19PM

Anions by EPA 300.0/9056A

Analyst: BA

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

Blank (2306032-BLK1)					Prepared: 02/07/23 Analyzed: 02/07/23				
Chloride	ND	20.0							
LCS (2306032-BS1)					Prepared: 02/07/23 Analyzed: 02/07/23				
Chloride	254	20.0	250		101	90-110			
Matrix Spike (2306032-MS1)					Source: E302030-01		Prepared: 02/07/23 Analyzed: 02/07/23		
Chloride	260	20.0	250	ND	104	80-120			
Matrix Spike Dup (2306032-MSD1)					Source: E302030-01		Prepared: 02/07/23 Analyzed: 02/07/23		
Chloride	258	20.0	250	ND	103	80-120	0.657	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 Pad #6 12-7-2022 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	02/09/23 16:13

- 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# 43778

Page 1 of 1

Client: KFOC		Bill To		Lab Use Only		TAT				EPA Program			
Project: U3L Pad #6 12-7-2012		Attention: Wescom, Inc		Lab WO# E302030		Job Number 21022-0001		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Ashley Giovenco		Address: 1224 Standpipe Rd		City, State, Zip: Carlsbad, NM, 88720		Phone: 505-382-1211		Analysis and Method				RCRA	
Address: 1224 Standpipe Rd		City, State, Zip: Carlsbad, NM, 88720		Phone: 505-382-1211		Email: Ashley.giovenco@wescominc.com							
Report due by:													

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 801	GRO/DRO by 801	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BDOC NM	BDOC TX	Remarks
0430	01/03/23	S	1	BG01-0'	1							X		
0433	2/3/23	S	1	BG01-1'	2							X		
1115	2/3/23	S	1	SS01-1.5'	3							X		
1002	2/3/23	S	1	SS02-1'	4							X		
1335	2/3/23	S	1	SS03B-0'	5							X		
1405	2/3/23	S	1	SS04D-0'	6							X		
1535	2/3/23	S	1	SS05C-0'	7							X		
1727	2/3/23	S	1	SS06A-0'	8							X		

Additional Instructions: Preserved on ice; Please CC Cole.burton@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) YOUNG ADRIANO	Date 2-6-23	Time 12:22p	Received by: (Signature) Michelle Cuyk	Date 2-6-23	Time 12:22	Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C 4
Relinquished by: (Signature) Michelle Cuyk	Date 2-6-23	Time 11:05	Received by: (Signature) Lorenzo Lei	Date 2-6-23	Time 1700	
Relinquished by: (Signature) Lorenzo Lei	Date 2-6-23	Time 2300	Received by: (Signature) Carla Chtr	Date 2/7/23	Time 8:15	

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: 2/7/2023 8:49:58AM

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:	02/07/23 08:15	Work Order ID:	E302030
Phone:	(505) 382-1211	Date Logged In:	02/06/23 14:13	Logged In By:	Caitlin Christian
Email:	ashley.giovengo@wescominc.com	Due Date:	02/13/23 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.

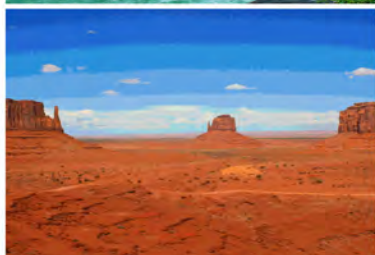
Date



envirotech Inc.

Report to:

Georgeann Goodman



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Kaiser Francis Oil Company

Project Name: NBL Pad #6

Work Order: E307124

Job Number: 21022-0001

Received: 7/24/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/25/23

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: 7/25/23

Georgeann Goodman
1224 Standpipe Rd
Carlsbad, NM 88220



Project Name: NBL Pad #6
Workorder: E307124
Date Received: 7/24/2023 5:30:00AM

Georgeann Goodman,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/24/2023 5:30:00AM, under the Project Name: NBL Pad #6.

The analytical test results summarized in this report with the Project Name: NBL Pad #6 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

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Alexa Michaels
Sample Custody Officer
Office: 505-632-1881
labadmin@envirotech-inc.com

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ljjarboe@envirotech-inc.com

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Rayny Hagan
Technical Representative
Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Kaiser Francis Oil Company	Project Name:	NBL Pad #6	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	07/25/23 15:52

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Conf 21	E307124-01A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 22	E307124-02A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 23	E307124-03A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 24	E307124-04A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 25	E307124-05A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 26	E307124-06A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 27	E307124-07A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 28	E307124-08A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 29	E307124-09A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 30	E307124-10A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 31	E307124-11A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 32	E307124-12A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 33	E307124-13A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 34	E307124-14A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 35	E307124-15A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 36	E307124-16A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 37	E307124-17A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 38	E307124-18A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 39	E307124-19A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 40	E307124-20A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 3:52:12PM

Conf 21

E307124-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	94.7 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	95.7 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	99.5 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	94.7 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	95.7 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	99.5 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2330010
Diesel Range Organics (C10-C28)	1580	250	10	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	1400	500	10	07/24/23	07/24/23	
Surrogate: n-Nonane	97.1 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330005
Chloride	3750	100	5	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 3:52:12PM

Conf 22

E307124-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	95.5 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	96.9 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	99.8 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	95.5 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	96.9 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	99.8 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2330010
Diesel Range Organics (C10-C28)	962	250	10	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	924	500	10	07/24/23	07/24/23	
Surrogate: n-Nonane	93.1 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330005
Chloride	3330	100	5	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 3:52:12PM

Conf 23

E307124-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	93.8 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	93.8 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	99.6 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	93.8 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	93.8 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	99.6 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2330010
Diesel Range Organics (C10-C28)	2000	1250	50	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	ND	2500	50	07/24/23	07/24/23	
Surrogate: n-Nonane	106 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330005
Chloride	2420	200	10	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 3:52:12PM

Conf 24

E307124-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene		107 %	70-130	07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4		96.0 %	70-130	07/24/23	07/24/23	
Surrogate: Toluene-d8		102 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene		107 %	70-130	07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4		96.0 %	70-130	07/24/23	07/24/23	
Surrogate: Toluene-d8		102 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2330010
Diesel Range Organics (C10-C28)	2530	1250	50	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	ND	2500	50	07/24/23	07/24/23	
Surrogate: n-Nonane		91.8 %	50-200	07/24/23	07/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330005
Chloride	3270	200	10	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 3:52:12PM

Conf 25

E307124-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene		101 %	70-130	07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4		94.8 %	70-130	07/24/23	07/24/23	
Surrogate: Toluene-d8		104 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene		101 %	70-130	07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4		94.8 %	70-130	07/24/23	07/24/23	
Surrogate: Toluene-d8		104 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2330010
Diesel Range Organics (C10-C28)	1420	250	10	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	803	500	10	07/24/23	07/24/23	
Surrogate: n-Nonane		94.5 %	50-200	07/24/23	07/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330005
Chloride	2140	200	10	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 3:52:12PM

Conf 26

E307124-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene		103 %	70-130	07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4		92.6 %	70-130	07/24/23	07/24/23	
Surrogate: Toluene-d8		101 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene		103 %	70-130	07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4		92.6 %	70-130	07/24/23	07/24/23	
Surrogate: Toluene-d8		101 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2330010
Diesel Range Organics (C10-C28)	1410	500	20	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	1350	1000	20	07/24/23	07/24/23	
Surrogate: n-Nonane		107 %	50-200	07/24/23	07/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330005
Chloride	7330	200	10	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 3:52:12PM

Conf 27

E307124-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	96.7 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	94.6 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	99.3 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	96.7 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	94.6 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	99.3 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2330010
Diesel Range Organics (C10-C28)	1040	250	10	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	1040	500	10	07/24/23	07/24/23	
Surrogate: n-Nonane	93.6 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330005
Chloride	2760	100	5	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 3:52:12PM

Conf 28

E307124-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	95.6 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	94.1 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	99.6 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	95.6 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	94.1 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	99.6 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2330010
Diesel Range Organics (C10-C28)	1370	500	20	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	1540	1000	20	07/24/23	07/24/23	
Surrogate: n-Nonane	103 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330005
Chloride	3140	100	5	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 3:52:12PM

Conf 29

E307124-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	94.9 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	95.3 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	98.7 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	94.9 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	95.3 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	98.7 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2330010
Diesel Range Organics (C10-C28)	3000	250	10	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	1710	500	10	07/24/23	07/24/23	
Surrogate: n-Nonane	84.0 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330005
Chloride	3600	40.0	2	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 3:52:12PM

Conf 30

E307124-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	97.1 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	91.4 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	97.4 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	97.1 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	91.4 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	97.4 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2330010
Diesel Range Organics (C10-C28)	1000	500	20	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	ND	1000	20	07/24/23	07/24/23	
Surrogate: n-Nonane	88.5 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330005
Chloride	1720	200	10	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 3:52:12PM

Conf 31

E307124-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene		105 %	70-130	07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4		93.6 %	70-130	07/24/23	07/24/23	
Surrogate: Toluene-d8		101 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene		105 %	70-130	07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4		93.6 %	70-130	07/24/23	07/24/23	
Surrogate: Toluene-d8		101 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2330010
Diesel Range Organics (C10-C28)	1420	250	10	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	659	500	10	07/24/23	07/24/23	
Surrogate: n-Nonane		80.1 %	50-200	07/24/23	07/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330005
Chloride	1540	100	5	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 3:52:12PM

Conf 32

E307124-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene		105 %	70-130	07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4		91.6 %	70-130	07/24/23	07/24/23	
Surrogate: Toluene-d8		101 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene		105 %	70-130	07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4		91.6 %	70-130	07/24/23	07/24/23	
Surrogate: Toluene-d8		101 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2330010
Diesel Range Organics (C10-C28)	1770	500	20	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	1080	1000	20	07/24/23	07/24/23	
Surrogate: n-Nonane		91.0 %	50-200	07/24/23	07/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330005
Chloride	2210	200	10	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 3:52:12PM

Conf 33

E307124-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene		105 %	70-130	07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4		91.0 %	70-130	07/24/23	07/24/23	
Surrogate: Toluene-d8		103 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene		105 %	70-130	07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4		91.0 %	70-130	07/24/23	07/24/23	
Surrogate: Toluene-d8		103 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2330010
Diesel Range Organics (C10-C28)	1280	250	10	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	876	500	10	07/24/23	07/24/23	
Surrogate: n-Nonane		79.7 %	50-200	07/24/23	07/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330005
Chloride	1870	200	10	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 3:52:12PM

Conf 34

E307124-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene		105 %	70-130	07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4		93.7 %	70-130	07/24/23	07/24/23	
Surrogate: Toluene-d8		103 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene		105 %	70-130	07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4		93.7 %	70-130	07/24/23	07/24/23	
Surrogate: Toluene-d8		103 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2330010
Diesel Range Organics (C10-C28)	3130	250	10	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	1940	500	10	07/24/23	07/24/23	
Surrogate: n-Nonane		86.3 %	50-200	07/24/23	07/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330005
Chloride	4010	40.0	2	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 3:52:12PM

Conf 35

E307124-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	97.7 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	93.9 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	97.7 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	93.9 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2330010
Diesel Range Organics (C10-C28)	3240	500	20	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	2380	1000	20	07/24/23	07/24/23	
Surrogate: n-Nonane	92.3 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330005
Chloride	4120	40.0	2	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 3:52:12PM

Conf 36

E307124-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	97.5 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	95.7 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	97.5 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	95.7 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2330010
Diesel Range Organics (C10-C28)	935	125	5	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	911	250	5	07/24/23	07/24/23	
Surrogate: n-Nonane	82.3 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330005
Chloride	4970	200	10	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 3:52:12PM

Conf 37

E307124-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	96.9 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	95.0 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	96.9 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	95.0 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2330010
Diesel Range Organics (C10-C28)	1020	125	5	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	670	250	5	07/24/23	07/24/23	
Surrogate: n-Nonane	74.1 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330005
Chloride	4330	100	5	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 3:52:12PM

Conf 38

E307124-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	96.5 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	99.8 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	94.9 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	96.5 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	99.8 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	94.9 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2330010
Diesel Range Organics (C10-C28)	1260	125	5	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	743	250	5	07/24/23	07/24/23	
Surrogate: n-Nonane	75.5 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330005
Chloride	7960	200	10	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 3:52:12PM

Conf 39

E307124-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	96.8 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	94.9 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	96.8 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	94.9 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2330010
Diesel Range Organics (C10-C28)	1300	125	5	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	804	250	5	07/24/23	07/24/23	
Surrogate: n-Nonane	72.3 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330005
Chloride	8290	200	10	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 3:52:12PM

Conf 40

E307124-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	97.4 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	94.3 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330003
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	97.4 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	94.3 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2330010
Diesel Range Organics (C10-C28)	2660	500	20	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	1300	1000	20	07/24/23	07/24/23	
Surrogate: n-Nonane	86.7 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330005
Chloride	1890	200	10	07/24/23	07/24/23	



QC Summary Data

Kaiser Francis Oil Company	Project Name:	NBL Pad #6	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	7/25/2023 3:52:12PM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

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

Blank (2330003-BLK1)

Prepared: 07/24/23 Analyzed: 07/24/23

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: Bromofluorobenzene	0.464		0.500		92.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.7	70-130			
Surrogate: Toluene-d8	0.500		0.500		99.9	70-130			

LCS (2330003-BS1)

Prepared: 07/24/23 Analyzed: 07/24/23

Benzene	2.45	0.0250	2.50		97.8	70-130			
Ethylbenzene	2.31	0.0250	2.50		92.4	70-130			
Toluene	2.38	0.0250	2.50		95.1	70-130			
o-Xylene	2.40	0.0250	2.50		96.0	70-130			
p,m-Xylene	4.77	0.0500	5.00		95.4	70-130			
Total Xylenes	7.17	0.0250	7.50		95.6	70-130			
Surrogate: Bromofluorobenzene	0.469		0.500		93.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		98.9	70-130			
Surrogate: Toluene-d8	0.491		0.500		98.1	70-130			

Matrix Spike (2330003-MS1)

Source: E307124-07

Prepared: 07/24/23 Analyzed: 07/24/23

Benzene	2.62	0.0250	2.50	ND	105	48-131			
Ethylbenzene	2.52	0.0250	2.50	ND	101	45-135			
Toluene	2.58	0.0250	2.50	ND	103	48-130			
o-Xylene	2.62	0.0250	2.50	ND	105	43-135			
p,m-Xylene	5.20	0.0500	5.00	ND	104	43-135			
Total Xylenes	7.82	0.0250	7.50	ND	104	43-135			
Surrogate: Bromofluorobenzene	0.473		0.500		94.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		98.0	70-130			
Surrogate: Toluene-d8	0.496		0.500		99.2	70-130			

Matrix Spike Dup (2330003-MSD1)

Source: E307124-07

Prepared: 07/24/23 Analyzed: 07/24/23

Benzene	2.39	0.0250	2.50	ND	95.5	48-131	9.15	23	
Ethylbenzene	2.33	0.0250	2.50	ND	93.3	45-135	7.59	27	
Toluene	2.37	0.0250	2.50	ND	94.6	48-130	8.60	24	
o-Xylene	2.46	0.0250	2.50	ND	98.5	43-135	6.31	27	
p,m-Xylene	4.84	0.0500	5.00	ND	96.8	43-135	7.18	27	
Total Xylenes	7.30	0.0250	7.50	ND	97.4	43-135	6.89	27	
Surrogate: Bromofluorobenzene	0.479		0.500		95.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.478		0.500		95.6	70-130			
Surrogate: Toluene-d8	0.496		0.500		99.2	70-130			



QC Summary Data

Kaiser Francis Oil Company	Project Name:	NBL Pad #6	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	7/25/2023 3:52:12PM

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 (2330003-BLK1)

Prepared: 07/24/23 Analyzed: 07/24/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.464		0.500		92.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.7	70-130			
Surrogate: Toluene-d8	0.500		0.500		99.9	70-130			

LCS (2330003-BS2)

Prepared: 07/24/23 Analyzed: 07/24/23

Gasoline Range Organics (C6-C10)	50.0	20.0	50.0		100	70-130			
Surrogate: Bromofluorobenzene	0.488		0.500		97.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.475		0.500		94.9	70-130			
Surrogate: Toluene-d8	0.503		0.500		101	70-130			

Matrix Spike (2330003-MS2)

Source: E307124-07

Prepared: 07/24/23 Analyzed: 07/24/23

Gasoline Range Organics (C6-C10)	58.7	20.0	50.0	ND	117	70-130			
Surrogate: Bromofluorobenzene	0.491		0.500		98.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.501		0.500		100	70-130			

Matrix Spike Dup (2330003-MSD2)

Source: E307124-07

Prepared: 07/24/23 Analyzed: 07/24/23

Gasoline Range Organics (C6-C10)	59.5	20.0	50.0	ND	119	70-130	1.37	20	
Surrogate: Bromofluorobenzene	0.488		0.500		97.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.1	70-130			
Surrogate: Toluene-d8	0.506		0.500		101	70-130			



QC Summary Data

Kaiser Francis Oil Company	Project Name:	NBL Pad #6	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	7/25/2023 3:52:12PM

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 (2330010-BLK1) Prepared: 07/24/23 Analyzed: 07/24/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.5		50.0		103	50-200			

LCS (2330010-BS1) Prepared: 07/24/23 Analyzed: 07/24/23

Diesel Range Organics (C10-C28)	257	25.0	250		103	38-132			
Surrogate: n-Nonane	50.2		50.0		100	50-200			

Matrix Spike (2330010-MS1) Source: E307124-05 Prepared: 07/24/23 Analyzed: 07/24/23

Diesel Range Organics (C10-C28)	1910	250	250	1420	199	38-132			M4
Surrogate: n-Nonane	54.2		50.0		108	50-200			

Matrix Spike Dup (2330010-MSD1) Source: E307124-05 Prepared: 07/24/23 Analyzed: 07/24/23

Diesel Range Organics (C10-C28)	1770	250	250	1420	141	38-132	7.95	20	M4
Surrogate: n-Nonane	52.0		50.0		104	50-200			



QC Summary Data

Kaiser Francis Oil Company	Project Name:	NBL Pad #6	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	7/25/2023 3:52:12PM

Anions by EPA 300.0/9056A

Analyst: BA

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

Blank (2330005-BLK1)					Prepared: 07/24/23 Analyzed: 07/24/23				
Chloride	ND	20.0							
LCS (2330005-BS1)					Prepared: 07/24/23 Analyzed: 07/24/23				
Chloride	262	20.0	250		105	90-110			
Matrix Spike (2330005-MS1)					Source: E307124-01		Prepared: 07/24/23 Analyzed: 07/24/23		
Chloride	4550	100	250	3750	321	80-120			M4
Matrix Spike Dup (2330005-MSD1)					Source: E307124-01		Prepared: 07/24/23 Analyzed: 07/24/23		
Chloride	3700	100	250	3750	NR	80-120	20.6	20	M4

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 Pad #6	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	07/25/23 15:52

- M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. 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.



DO#49834

Client: Kaiser Francis Oil Co
 Project: NBL Pad #16
 Project Manager: Georgeann Goodman
 Address: 1224 Standpipe Rd
 City, State, Zip: Carlsbad NM 88220
 Phone: 5757251311
 Email: Georgeann.Goodman@wescominc.com
 Report due by: wescominc.com

Bill To
 Attention: Wescom Inc
 Address: ←
 City, State, Zip: ←
 Phone: ←
 Email: ←

Lab Use Only		TAT			EPA Program		
Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA
<u>E307124</u>	<u>21022-0001</u>	<u>X</u>					
Analysis and Method							RCRA
State							
NM CO UT AZ TX							
<u>X</u>							

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
0840	7/21	Soil	1	Conf 21	1	<u>4</u>						<u>X</u>		
0842			1	Conf 22	2	<u>12</u>						<u>X</u>		
0844			1	Conf 23		<u>3</u>						<u>X</u>		
0846			1	Conf 24		<u>4</u>						<u>X</u>		
0848			1	Conf 25		<u>5</u>						<u>X</u>		
0850			1	Conf 26		<u>6</u>						<u>X</u>		
0852			1	Conf 27		<u>7</u>						<u>X</u>		
0854			1	Conf 28		<u>8</u>						<u>X</u>		
0856			1	Conf 29		<u>9</u>						<u>X</u>		
0858	✓	✓	1	Conf 30		<u>10</u>						<u>X</u>		

Additional Instructions:

As seen on page one. Thank you! CC: Shar. Harvester, Shane. Stolt, georgeann.goodman and Joey. Crook @ wescominc.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling 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
<u>[Signature]</u>	<u>7/21/23</u>	<u>3:00pm</u>	<u>Michelle Fung</u>	<u>7-21-23</u>	<u>1500</u>
<u>Michelle Fung</u>	<u>7-22-23</u>	<u>1830</u>	<u>[Signature]</u>	<u>7-24-23</u>	<u>530</u>
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Lab Use Only	
Received on ice:	<u>Y/N</u>
T1	T2 T3
AVG Temp °C	<u>4</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.



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Envirotech Analytical Laboratory

Printed: 7/24/2023 8:16:27AM

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:	07/24/23 05:30	Work Order ID:	E307124
Phone:	575-725-1311	Date Logged In:	07/24/23 06:13	Logged In By:	Alexa Michaels
Email:	georgeann.goodman@wesominc.com	Due Date:	07/24/23 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/Resolution

Project (NBL Pad #6) has been separated into 3 workorders due to high volume of samples. Workorders are as follows: E307124, E307125 and E307126

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.

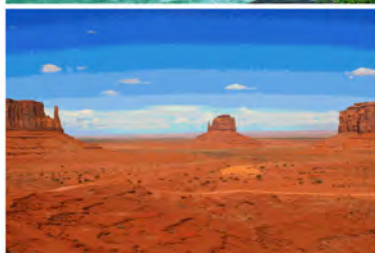
Date



envirotech Inc.

Report to:

Georgeann Goodman



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Kaiser Francis Oil Company

Project Name: NBL Pad #6

Work Order: E307125

Job Number: 21022-0001

Received: 7/24/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/25/23

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: 7/25/23

Georgeann Goodman
1224 Standpipe Rd
Carlsbad, NM 88220



Project Name: NBL Pad #6
Workorder: E307125
Date Received: 7/24/2023 5:30:00AM

Georgeann Goodman,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/24/2023 5:30:00AM, under the Project Name: NBL Pad #6.

The analytical test results summarized in this report with the Project Name: NBL Pad #6 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

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Technical Representative
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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Kaiser Francis Oil Company	Project Name:	NBL Pad #6	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	07/25/23 15:55

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Conf 01	E307125-01A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 02	E307125-02A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 03	E307125-03A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 04	E307125-04A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 05	E307125-05A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 06	E307125-06A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 07	E307125-07A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 08	E307125-08A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 09	E307125-09A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 10	E307125-10A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 11	E307125-11A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 12	E307125-12A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 13	E307125-13A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 14	E307125-14A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 15	E307125-15A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 16	E307125-16A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 17	E307125-17A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 18	E307125-18A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 19	E307125-19A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 20	E307125-20A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 3:55:00PM

Conf 01

E307125-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.9 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	82.5 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2330009	
Diesel Range Organics (C10-C28)	1590	125	5	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	953	250	5	07/24/23	07/24/23	
<i>Surrogate: n-Nonane</i>						
	97.9 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2330006	
Chloride	2350	200	10	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 3:55:00PM

Conf 02

E307125-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	99.6 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	82.0 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2330009	
Diesel Range Organics (C10-C28)	1450	250	10	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	969	500	10	07/24/23	07/24/23	
<i>Surrogate: n-Nonane</i>	94.3 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2330006	
Chloride	2090	100	5	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 3:55:00PM

Conf 03

E307125-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	98.4 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	80.9 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2330009	
Diesel Range Organics (C10-C28)	1540	125	5	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	1050	250	5	07/24/23	07/24/23	
<i>Surrogate: n-Nonane</i>	94.1 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2330006	
Chloride	1110	40.0	2	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 3:55:00PM

Conf 04

E307125-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	98.8 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	80.3 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2330009	
Diesel Range Organics (C10-C28)	1010	125	5	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	849	250	5	07/24/23	07/24/23	
<i>Surrogate: n-Nonane</i>	84.3 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2330006	
Chloride	3020	200	10	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 3:55:00PM

Conf 05

E307125-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	99.4 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	80.3 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2330009	
Diesel Range Organics (C10-C28)	1090	125	5	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	604	250	5	07/24/23	07/24/23	
<i>Surrogate: n-Nonane</i>	77.0 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2330006	
Chloride	2660	100	5	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 3:55:00PM

Conf 06

E307125-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	99.0 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	81.0 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2330009	
Diesel Range Organics (C10-C28)	1660	500	20	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	1200	1000	20	07/24/23	07/24/23	
<i>Surrogate: n-Nonane</i>	96.5 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2330006	
Chloride	2050	200	10	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 3:55:00PM

Conf 07

E307125-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2330002
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2330002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		83.6 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2330009
Diesel Range Organics (C10-C28)	511	50.0	2	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	485	100	2	07/24/23	07/24/23	
<i>Surrogate: n-Nonane</i>		107 %	50-200	07/24/23	07/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2330006
Chloride	1930	40.0	2	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
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Conf 08

E307125-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	99.5 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	80.3 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2330009	
Diesel Range Organics (C10-C28)	1130	250	10	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	912	500	10	07/24/23	07/24/23	
<i>Surrogate: n-Nonane</i>	87.5 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2330006	
Chloride	2750	200	10	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
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Conf 09

E307125-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		80.7 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2330009	
Diesel Range Organics (C10-C28)	1170	125	5	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	890	250	5	07/24/23	07/24/23	
<i>Surrogate: n-Nonane</i>		92.3 %	50-200	07/24/23	07/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2330006	
Chloride	2690	200	10	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 3:55:00PM

Conf 10

E307125-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		81.9 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2330009	
Diesel Range Organics (C10-C28)	1310	500	20	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	ND	1000	20	07/24/23	07/24/23	
<i>Surrogate: n-Nonane</i>		88.8 %	50-200	07/24/23	07/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2330006	
Chloride	2190	100	5	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
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Conf 11

E307125-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	95.3 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	83.9 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2330009	
Diesel Range Organics (C10-C28)	2980	125	5	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	1910	250	5	07/24/23	07/24/23	
<i>Surrogate: n-Nonane</i>	97.4 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2330006	
Chloride	3680	40.0	2	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
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Conf 12

E307125-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	94.7 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	83.6 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2330009	
Diesel Range Organics (C10-C28)	1390	250	10	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	1420	500	10	07/24/23	07/24/23	
<i>Surrogate: n-Nonane</i>	96.5 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2330006	
Chloride	1860	100	5	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
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Conf 13

E307125-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	93.4 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	83.6 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2330009	
Diesel Range Organics (C10-C28)	2440	250	10	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	1550	500	10	07/24/23	07/24/23	
<i>Surrogate: n-Nonane</i>	101 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2330006	
Chloride	1010	100	5	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
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Conf 14

E307125-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	95.4 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	84.4 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2330009	
Diesel Range Organics (C10-C28)	1590	250	10	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	967	500	10	07/24/23	07/24/23	
<i>Surrogate: n-Nonane</i>	107 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2330006	
Chloride	1650	200	10	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
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Conf 15

E307125-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	93.9 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	83.2 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2330009	
Diesel Range Organics (C10-C28)	1680	250	10	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	1330	500	10	07/24/23	07/24/23	
<i>Surrogate: n-Nonane</i>	96.2 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2330006	
Chloride	2780	100	5	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 3:55:00PM

Conf 16

E307125-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	93.7 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	83.6 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2330009	
Diesel Range Organics (C10-C28)	3310	500	20	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	1750	1000	20	07/24/23	07/24/23	
<i>Surrogate: n-Nonane</i>	103 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2330006	
Chloride	1170	100	5	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 3:55:00PM

Conf 17

E307125-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	93.7 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	83.5 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2330009	
Diesel Range Organics (C10-C28)	1250	125	5	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	ND	250	5	07/24/23	07/24/23	
<i>Surrogate: n-Nonane</i>	93.1 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2330006	
Chloride	1250	40.0	2	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 3:55:00PM

Conf 18

E307125-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	94.1 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	84.3 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2330009	
Diesel Range Organics (C10-C28)	1580	250	10	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	1300	500	10	07/24/23	07/24/23	
<i>Surrogate: n-Nonane</i>	88.5 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2330006	
Chloride	1770	100	5	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 3:55:00PM

Conf 19

E307125-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	94.2 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	84.5 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2330009	
Diesel Range Organics (C10-C28)	1110	50.0	2	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	805	100	2	07/24/23	07/24/23	
<i>Surrogate: n-Nonane</i>	79.3 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2330006	
Chloride	4280	100	5	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 3:55:00PM

Conf 20

E307125-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	95.5 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2330002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	84.5 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2330009	
Diesel Range Organics (C10-C28)	516	50.0	2	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	326	100	2	07/24/23	07/24/23	
<i>Surrogate: n-Nonane</i>	81.6 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2330006	
Chloride	2070	40.0	2	07/24/23	07/24/23	



QC Summary Data

Kaiser Francis Oil Company	Project Name:	NBL Pad #6	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	7/25/2023 3:55:00PM

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 (2330002-BLK1)

Prepared: 07/24/23 Analyzed: 07/24/23

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	8.17		8.00		102	70-130			

LCS (2330002-BS1)

Prepared: 07/24/23 Analyzed: 07/24/23

Benzene	4.37	0.0250	5.00		87.3	70-130			
Ethylbenzene	4.55	0.0250	5.00		91.0	70-130			
Toluene	4.60	0.0250	5.00		91.9	70-130			
o-Xylene	4.74	0.0250	5.00		94.8	70-130			
p,m-Xylene	9.44	0.0500	10.0		94.4	70-130			
Total Xylenes	14.2	0.0250	15.0		94.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.12		8.00		102	70-130			

Matrix Spike (2330002-MS1)

Source: E307125-07

Prepared: 07/24/23 Analyzed: 07/24/23

Benzene	4.52	0.0250	5.00	ND	90.4	54-133			
Ethylbenzene	4.74	0.0250	5.00	ND	94.9	61-133			
Toluene	4.78	0.0250	5.00	ND	95.6	61-130			
o-Xylene	4.92	0.0250	5.00	ND	98.4	63-131			
p,m-Xylene	9.83	0.0500	10.0	ND	98.3	63-131			
Total Xylenes	14.8	0.0250	15.0	ND	98.4	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.07		8.00		101	70-130			

Matrix Spike Dup (2330002-MSD1)

Source: E307125-07

Prepared: 07/24/23 Analyzed: 07/24/23

Benzene	4.52	0.0250	5.00	ND	90.5	54-133	0.0475	20	
Ethylbenzene	4.77	0.0250	5.00	ND	95.3	61-133	0.471	20	
Toluene	4.79	0.0250	5.00	ND	95.8	61-130	0.243	20	
o-Xylene	4.93	0.0250	5.00	ND	98.7	63-131	0.237	20	
p,m-Xylene	9.88	0.0500	10.0	ND	98.8	63-131	0.468	20	
Total Xylenes	14.8	0.0250	15.0	ND	98.7	63-131	0.391	20	
Surrogate: 4-Bromochlorobenzene-PID	8.10		8.00		101	70-130			



QC Summary Data

Kaiser Francis Oil Company	Project Name:	NBL Pad #6	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	7/25/2023 3:55:00PM

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 (2330002-BLK1)

Prepared: 07/24/23 Analyzed: 07/24/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.65		8.00		83.1	70-130			

LCS (2330002-BS2)

Prepared: 07/24/23 Analyzed: 07/24/23

Gasoline Range Organics (C6-C10)	41.0	20.0	50.0		82.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.80		8.00		85.0	70-130			

Matrix Spike (2330002-MS2)

Source: E307125-07

Prepared: 07/24/23 Analyzed: 07/24/23

Gasoline Range Organics (C6-C10)	44.8	20.0	50.0	ND	89.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.55		8.00		81.9	70-130			

Matrix Spike Dup (2330002-MSD2)

Source: E307125-07

Prepared: 07/24/23 Analyzed: 07/24/23

Gasoline Range Organics (C6-C10)	45.4	20.0	50.0	ND	90.7	70-130	1.23	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.64		8.00		83.0	70-130			



QC Summary Data

Kaiser Francis Oil Company	Project Name:	NBL Pad #6	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	7/25/2023 3:55:00PM

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 (2330009-BLK1)

Prepared: 07/24/23 Analyzed: 07/24/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	52.3		50.0		105	50-200			

LCS (2330009-BS1)

Prepared: 07/24/23 Analyzed: 07/24/23

Diesel Range Organics (C10-C28)	266	25.0	250		106	38-132			
Surrogate: <i>n</i> -Nonane	47.0		50.0		94.0	50-200			

Matrix Spike (2330009-MS1)

Source: E307125-01

Prepared: 07/24/23 Analyzed: 07/24/23

Diesel Range Organics (C10-C28)	1700	125	250	1590	44.4	38-132			
Surrogate: <i>n</i> -Nonane	42.4		50.0		84.7	50-200			

Matrix Spike Dup (2330009-MSD1)

Source: E307125-01

Prepared: 07/24/23 Analyzed: 07/24/23

Diesel Range Organics (C10-C28)	2050	125	250	1590	187	38-132	19.0	20	M4
Surrogate: <i>n</i> -Nonane	47.5		50.0		95.1	50-200			



QC Summary Data

Kaiser Francis Oil Company	Project Name:	NBL Pad #6	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	7/25/2023 3:55:00PM

Anions by EPA 300.0/9056A

Analyst: BA

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

Blank (2330006-BLK1)					Prepared: 07/24/23 Analyzed: 07/24/23				
Chloride	ND	20.0							
LCS (2330006-BS1)					Prepared: 07/24/23 Analyzed: 07/24/23				
Chloride	257	20.0	250		103	90-110			
Matrix Spike (2330006-MS1)					Source: E307125-01		Prepared: 07/24/23 Analyzed: 07/24/23		
Chloride	2550	200	250	2350	81.7	80-120			
Matrix Spike Dup (2330006-MSD1)					Source: E307125-01		Prepared: 07/24/23 Analyzed: 07/24/23		
Chloride	2410	200	250	2350	23.1	80-120	5.90	20	M4

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 Pad #6	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	07/25/23 15:55

- M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. 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

PO#49834

Client: Kaiser Francis Oil Co
 Project: NBL Pad #16
 Project Manager: Georgiann g
 Address: 1224 Standpipe Rd
 City, State, Zip: Carlsbad NM 88220
 Phone: 575 7251311
 Email: georgiann.goodman@
 Report due by: wescominc.com

Bill To
 Attention: Wescom Inc
 Address: 1224 Standpipe Rd
 City, State, Zip: Carlsbad NM
 Phone: <
 Email: <

Lab Use Only		TAT			EPA Program		
Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA
<u>E367125</u>	<u>21022-0001</u>	<u>X</u>					
Analysis and Method							RCRA
DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	State	
						NM	CO
						<u>X</u>	
						UT	AZ
							TX
						Remarks	

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number
0820	7/21	Soil	1	Conf 11	11
0822			1	Conf 12	12
0824			1	Conf 13	13
0826			1	Conf 14	14
0828			1	Conf 15	15
0830			1	Conf 16	16
0832			1	Conf 17	17
0834			1	Conf 18	18
0836			1	Conf 19	19
0838			1	Conf 20	20

Additional Instructions:

as seen on page one. Thank you!

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
<u>[Signature]</u>	7/21/23	3:00 PM	<u>Michelle Eumala</u>	7-21-23	1500
<u>Michelle Eumala</u>	7-22-23	1830	<u>[Signature]</u>	7-24-23	530
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.



envirotech

Envirotech Analytical Laboratory

Printed: 7/24/2023 8:30:32AM

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:	07/24/23 05:30	Work Order ID:	E307125
Phone:	575-725-1311	Date Logged In:	07/24/23 06:22	Logged In By:	Alexa Michaels
Email:	georgeann.goodman@wesominc.com	Due Date:	07/24/23 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/Resolution

Project (NBL Pad #6) has been separated into 3 workorders due to high volume of samples. Workorders are as follows: E307124, E307125 and E307126

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:

Georgeann Goodman



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Kaiser Francis Oil Company

Project Name: NBL Pad #6

Work Order: E307126

Job Number: 21022-0001

Received: 7/24/2023

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/25/23

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: 7/25/23

Georgeann Goodman
1224 Standpipe Rd
Carlsbad, NM 88220



Project Name: NBL Pad #6
Workorder: E307126
Date Received: 7/24/2023 5:30:00AM

Georgeann Goodman,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/24/2023 5:30:00AM, under the Project Name: NBL Pad #6.

The analytical test results summarized in this report with the Project Name: NBL Pad #6 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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Sample Summary

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: NBL Pad #6 Project Number: 21022-0001 Project Manager: Georgeann Goodman	Reported: 07/25/23 17:40
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Conf 41	E307126-01A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 42	E307126-02A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 43	E307126-03A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 44	E307126-04A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 45	E307126-05A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 46	E307126-06A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 47	E307126-07A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 48	E307126-08A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 49	E307126-09A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 50	E307126-10A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 51	E307126-11A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
Conf 52	E307126-12A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 5:40:47PM

Conf 41

E307126-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330004
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	100 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	93.4 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	100 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330004
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	100 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	93.4 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	100 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2330011
Diesel Range Organics (C10-C28)	1840	250	10	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	1400	500	10	07/24/23	07/24/23	
Surrogate: n-Nonane	90.7 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330007
Chloride	2460	100	5	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 5:40:47PM

Conf 42

E307126-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330004
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene		105 %	70-130	07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4		92.0 %	70-130	07/24/23	07/24/23	
Surrogate: Toluene-d8		103 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330004
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene		105 %	70-130	07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4		92.0 %	70-130	07/24/23	07/24/23	
Surrogate: Toluene-d8		103 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2330011
Diesel Range Organics (C10-C28)	1210	250	10	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	1160	500	10	07/24/23	07/24/23	
Surrogate: n-Nonane		91.5 %	50-200	07/24/23	07/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330007
Chloride	3280	100	5	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 5:40:47PM

Conf 43

E307126-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330004
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene		102 %	70-130	07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4		94.3 %	70-130	07/24/23	07/24/23	
Surrogate: Toluene-d8		103 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330004
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene		102 %	70-130	07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4		94.3 %	70-130	07/24/23	07/24/23	
Surrogate: Toluene-d8		103 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2330011
Diesel Range Organics (C10-C28)	1170	500	20	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	ND	1000	20	07/24/23	07/24/23	
Surrogate: n-Nonane		93.3 %	50-200	07/24/23	07/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330007
Chloride	3920	200	10	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 5:40:47PM

Conf 44

E307126-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330004
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene		103 %	70-130	07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4		95.2 %	70-130	07/24/23	07/24/23	
Surrogate: Toluene-d8		104 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330004
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene		103 %	70-130	07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4		95.2 %	70-130	07/24/23	07/24/23	
Surrogate: Toluene-d8		104 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2330011
Diesel Range Organics (C10-C28)	1040	250	10	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	995	500	10	07/24/23	07/24/23	
Surrogate: n-Nonane		102 %	50-200	07/24/23	07/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330007
Chloride	3990	200	10	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 5:40:47PM

Conf 45

E307126-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330004
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	95.4 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	95.2 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	99.8 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330004
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	95.4 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	95.2 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	99.8 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2330011
Diesel Range Organics (C10-C28)	944	500	20	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	ND	1000	20	07/24/23	07/24/23	
Surrogate: n-Nonane	83.2 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330007
Chloride	3990	200	10	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 5:40:47PM

Conf 46

E307126-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330004
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	96.3 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	92.7 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	100 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330004
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	96.3 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	92.7 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	100 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2330011
Diesel Range Organics (C10-C28)	1350	125	5	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	1010	250	5	07/24/23	07/24/23	
Surrogate: n-Nonane	87.0 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330007
Chloride	4140	200	10	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 5:40:47PM

Conf 47

E307126-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330004
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	96.2 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	96.4 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	98.1 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330004
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	96.2 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	96.4 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	98.1 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2330011
Diesel Range Organics (C10-C28)	1200	250	10	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	1070	500	10	07/24/23	07/24/23	
Surrogate: n-Nonane	75.2 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330007
Chloride	3730	200	10	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 5:40:47PM

Conf 48

E307126-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330004
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	94.5 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	95.0 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	99.9 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330004
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	94.5 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	95.0 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	99.9 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2330011
Diesel Range Organics (C10-C28)	1050	250	10	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	966	500	10	07/24/23	07/24/23	
Surrogate: n-Nonane	73.0 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330007
Chloride	6980	200	10	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 5:40:47PM

Conf 49

E307126-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330004
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	95.6 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	99.6 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	95.3 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330004
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	95.6 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	99.6 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	95.3 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2330011
Diesel Range Organics (C10-C28)	2330	250	10	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	2660	500	10	07/24/23	07/24/23	
Surrogate: n-Nonane	83.6 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330007
Chloride	4410	200	10	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 5:40:47PM

Conf 50

E307126-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330004
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	95.4 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	98.9 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	94.4 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330004
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	95.4 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	98.9 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	94.4 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2330011
Diesel Range Organics (C10-C28)	2110	250	10	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	1320	500	10	07/24/23	07/24/23	
Surrogate: n-Nonane	70.8 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330007
Chloride	4870	400	20	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 5:40:47PM

Conf 51

E307126-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330004
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	97.0 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	94.7 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330004
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	97.0 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	94.7 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2330011
Diesel Range Organics (C10-C28)	1610	250	10	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	787	500	10	07/24/23	07/24/23	
Surrogate: n-Nonane	70.5 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330007
Chloride	2770	200	10	07/24/23	07/24/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/25/2023 5:40:47PM

Conf 52

E307126-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330004
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	97.8 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	94.9 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330004
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene	97.8 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8	94.9 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2330011
Diesel Range Organics (C10-C28)	1130	250	10	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	585	500	10	07/24/23	07/24/23	
Surrogate: n-Nonane	68.1 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330007
Chloride	4690	400	20	07/24/23	07/24/23	



QC Summary Data

Kaiser Francis Oil Company	Project Name:	NBL Pad #6	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	7/25/2023 5:40:47PM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

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

Blank (2330004-BLK1)

Prepared: 07/24/23 Analyzed: 07/24/23

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: Bromofluorobenzene	0.520		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.459		0.500		91.8	70-130			
Surrogate: Toluene-d8	0.510		0.500		102	70-130			

LCS (2330004-BS1)

Prepared: 07/24/23 Analyzed: 07/24/23

Benzene	2.38	0.0250	2.50		95.1	70-130			
Ethylbenzene	2.41	0.0250	2.50		96.3	70-130			
Toluene	2.39	0.0250	2.50		95.8	70-130			
o-Xylene	2.45	0.0250	2.50		97.8	70-130			
p,m-Xylene	4.85	0.0500	5.00		97.0	70-130			
Total Xylenes	7.30	0.0250	7.50		97.3	70-130			
Surrogate: Bromofluorobenzene	0.517		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.3	70-130			
Surrogate: Toluene-d8	0.508		0.500		102	70-130			

Matrix Spike (2330004-MS1)

Source: E307126-02

Prepared: 07/24/23 Analyzed: 07/24/23

Benzene	2.62	0.0250	2.50	ND	105	48-131			
Ethylbenzene	2.58	0.0250	2.50	ND	103	45-135			
Toluene	2.54	0.0250	2.50	ND	102	48-130			
o-Xylene	2.60	0.0250	2.50	ND	104	43-135			
p,m-Xylene	5.18	0.0500	5.00	ND	104	43-135			
Total Xylenes	7.78	0.0250	7.50	ND	104	43-135			
Surrogate: Bromofluorobenzene	0.516		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.6	70-130			
Surrogate: Toluene-d8	0.510		0.500		102	70-130			

Matrix Spike Dup (2330004-MSD1)

Source: E307126-02

Prepared: 07/24/23 Analyzed: 07/24/23

Benzene	2.62	0.0250	2.50	ND	105	48-131	0.114	23	
Ethylbenzene	2.61	0.0250	2.50	ND	104	45-135	1.12	27	
Toluene	2.61	0.0250	2.50	ND	104	48-130	2.58	24	
o-Xylene	2.66	0.0250	2.50	ND	106	43-135	2.32	27	
p,m-Xylene	5.29	0.0500	5.00	ND	106	43-135	2.14	27	
Total Xylenes	7.95	0.0250	7.50	ND	106	43-135	2.20	27	
Surrogate: Bromofluorobenzene	0.521		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.5	70-130			
Surrogate: Toluene-d8	0.513		0.500		103	70-130			



QC Summary Data

Kaiser Francis Oil Company	Project Name:	NBL Pad #6	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	7/25/2023 5:40:47PM

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 (2330004-BLK1)

Prepared: 07/24/23 Analyzed: 07/24/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.520		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.459		0.500		91.8	70-130			
Surrogate: Toluene-d8	0.510		0.500		102	70-130			

LCS (2330004-BS2)

Prepared: 07/24/23 Analyzed: 07/24/23

Gasoline Range Organics (C6-C10)	53.7	20.0	50.0		107	70-130			
Surrogate: Bromofluorobenzene	0.520		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.487		0.500		97.3	70-130			
Surrogate: Toluene-d8	0.517		0.500		103	70-130			

Matrix Spike (2330004-MS2)

Source: E307126-02

Prepared: 07/24/23 Analyzed: 07/24/23

Gasoline Range Organics (C6-C10)	59.8	20.0	50.0	ND	120	70-130			
Surrogate: Bromofluorobenzene	0.521		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.472		0.500		94.3	70-130			
Surrogate: Toluene-d8	0.518		0.500		104	70-130			

Matrix Spike Dup (2330004-MSD2)

Source: E307126-02

Prepared: 07/24/23 Analyzed: 07/24/23

Gasoline Range Organics (C6-C10)	60.9	20.0	50.0	ND	122	70-130	1.82	20	
Surrogate: Bromofluorobenzene	0.515		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.6	70-130			
Surrogate: Toluene-d8	0.524		0.500		105	70-130			



QC Summary Data

Kaiser Francis Oil Company	Project Name:	NBL Pad #6	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	7/25/2023 5:40:47PM

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 (2330011-BLK1)					Prepared: 07/24/23 Analyzed: 07/24/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	42.1		50.0		84.3	50-200			

LCS (2330011-BS1)					Prepared: 07/24/23 Analyzed: 07/24/23				
Diesel Range Organics (C10-C28)	211	25.0	250		84.4	38-132			
Surrogate: n-Nonane	36.5		50.0		73.0	50-200			

Matrix Spike (2330011-MS1)					Source: E307126-12		Prepared: 07/24/23 Analyzed: 07/24/23		
Diesel Range Organics (C10-C28)	1280	250	250	1130	58.6	38-132			
Surrogate: n-Nonane	33.8		50.0		67.5	50-200			

Matrix Spike Dup (2330011-MSD1)					Source: E307126-12		Prepared: 07/24/23 Analyzed: 07/24/23		
Diesel Range Organics (C10-C28)	1430	250	250	1130	119	38-132	11.1	20	
Surrogate: n-Nonane	35.8		50.0		71.6	50-200			



QC Summary Data

Kaiser Francis Oil Company	Project Name:	NBL Pad #6	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	7/25/2023 5:40:47PM

Anions by EPA 300.0/9056A

Analyst: BA

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

Blank (2330007-BLK1)					Prepared: 07/24/23 Analyzed: 07/24/23				
Chloride	ND	20.0							
LCS (2330007-BS1)					Prepared: 07/24/23 Analyzed: 07/24/23				
Chloride	266	20.0	250		106	90-110			
Matrix Spike (2330007-MS1)					Source: E307126-01		Prepared: 07/24/23 Analyzed: 07/24/23		
Chloride	2980	100	250	2460	208	80-120			M4
Matrix Spike Dup (2330007-MSD1)					Source: E307126-01		Prepared: 07/24/23 Analyzed: 07/24/23		
Chloride	2810	100	250	2460	139	80-120	6.02	20	M4

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 Pad #6	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	07/25/23 17:40

- M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. 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.



Client: Kaiser Francis Oil Co
 Project: NBL Pad #16
 Project Manager: Georgeann G.
 Address: 1224 Standpipe Rd
 City, State, Zip: Carlsbad Rd 88200
 Phone: 5757251311
 Email: georgeann.goodman@wescominc.com
 Report due by: wescominc.com

Bill To

Attention: Wescom Inc
 Address: 1224 Standpipe
 City, State, Zip
 Phone:
 Email:

PO# 49834

Lab Use Only		TAT				EPA Program	
Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA
E3071210	21022-0001	X					
Analysis and Method						RCRA	
						State	
						NM	CO
						UT	AZ
						TX	
						Remarks	

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number
0920	7/21	Soil	1	Conf 41	1
0922			1	Conf 42	2
0924			1	Conf 43	3
0926			1	Conf 44	4
0928			1	Conf 45	5
0930			1	Conf 46	6
0932			1	Conf 47	7
0934			1	Conf 48	8
0936			1	Conf 49	9
0938			1	Conf 50	10

Additional Instructions:

As seen on page one. Thank You and Jeff Croft @ 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	
<i>[Signature]</i>		7/21/23	3:00pm	<i>[Signature]</i>		7-21-23	1500	Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N	
<i>[Signature]</i>		7-22-23	1830	<i>[Signature]</i>		7-24-23	530	T1 _____ T2 _____ T3 _____	
<i>[Signature]</i>				<i>[Signature]</i>				AVG Temp °C <u>4</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.



envirotech

PO #49834

Client: <u>Kaiser Francis Oil Co</u>		Bill To		Lab Use Only		TAT				EPA Program			
Project: <u>NBL Pool #6</u>		Attention: <u>Wescominc</u>		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA
Project Manager: <u>Georgeann Goodman</u>		Address: <u>1224 Standpipe Rd</u>		E357126		21022-0001		X					
Address: <u>1224 Standpipe Rd</u>		City, State, Zip: <u>Carlsbad NM 88220</u>		Analysis and Method								RCRA	
City, State, Zip: <u>Carlsbad NM 88220</u>		Phone: <u>5757251311</u>											
Email: <u>Georgeann.Goodman@wescominc.com</u>		Email: <u>Georgeann.Goodman@wescominc.com</u>											
Report due by: <u>Wescominc.com</u>													

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
0940	7/21	Soil	1	CONF 51	11							X		
0942	7/21	Soil	1	CONF 52	12							X		

Additional Instructions:

As seen on page one. Thank You!

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="radio"/> Y <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
<u>[Signature]</u>	7/21/23	3:00pm	<u>Michelle Gungah</u>	7-21-23	1500	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<u>Michelle Gungah</u>	7-22-23	1830	<u>[Signature]</u>	7-24-23	530	
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

Envirotech Analytical Laboratory

Printed: 7/24/2023 8:31:19AM

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:	07/24/23 05:30	Work Order ID:	E307126
Phone:	575-725-1311	Date Logged In:	07/24/23 06:26	Logged In By:	Alexa Michaels
Email:	georgeann.goodman@wesominc.com	Due Date:	07/24/23 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: Courier**Comments/Resolution**

Project (NBL Pad #6) has been separated into 3 workorders due to high volume of samples. Workorders are as follows: E307124, E307125 and E307126

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.

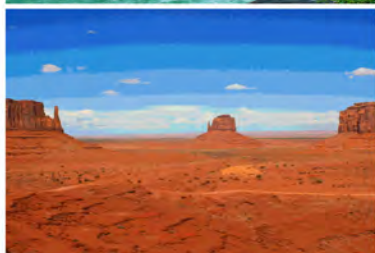
Date



envirotech Inc.

Report to:

Georgeann Goodman



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Kaiser Francis Oil Company

Project Name: NBL Pad #6

Work Order: E307173

Job Number: 21022-0001

Received: 7/31/2023

Revision: 0

Report Reviewed By:

Draft

Walter Hinchman
Laboratory Director
7/31/23

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: 7/31/23

Georgeann Goodman
1224 Standpipe Rd
Carlsbad, NM 88220



Project Name: NBL Pad #6
Workorder: E307173
Date Received: 7/31/2023 7:15:00AM

Georgeann Goodman,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/31/2023 7:15:00AM, under the Project Name: NBL Pad #6.

The analytical test results summarized in this report with the Project Name: NBL Pad #6 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

Raina Schwanz
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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Kaiser Francis Oil Company	Project Name:	NBL Pad #6	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	07/31/23 15:25

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Conf 4A	E307173-01A	Soil	07/27/23	07/31/23	Glass Jar, 2 oz.
Conf 6A	E307173-02A	Soil	07/27/23	07/31/23	Glass Jar, 2 oz.
Conf 7A	E307173-03A	Soil	07/27/23	07/31/23	Glass Jar, 2 oz.
Conf 8A	E307173-04A	Soil	07/27/23	07/31/23	Glass Jar, 2 oz.
Conf 9A	E307173-05A	Soil	07/27/23	07/31/23	Glass Jar, 2 oz.
Conf 10A	E307173-06A	Soil	07/27/23	07/31/23	Glass Jar, 2 oz.
Conf 11A	E307173-07A	Soil	07/27/23	07/31/23	Glass Jar, 2 oz.
Conf 15A	E307173-08A	Soil	07/27/23	07/31/23	Glass Jar, 2 oz.
Conf 16A	E307173-09A	Soil	07/27/23	07/31/23	Glass Jar, 2 oz.
Conf 21A	E307173-10A	Soil	07/27/23	07/31/23	Glass Jar, 2 oz.
Conf 24A	E307173-11A	Soil	07/27/23	07/31/23	Glass Jar, 2 oz.
Conf 26A	E307173-12A	Soil	07/27/23	07/31/23	Glass Jar, 2 oz.
Conf 34A	E307173-13A	Soil	07/27/23	07/31/23	Glass Jar, 2 oz.
Conf 35A	E307173-14A	Soil	07/27/23	07/31/23	Glass Jar, 2 oz.
Conf 40A	E307173-15A	Soil	07/27/23	07/31/23	Glass Jar, 2 oz.
Conf 41A	E307173-16A	Soil	07/27/23	07/31/23	Glass Jar, 2 oz.
Conf 49A	E307173-17A	Soil	07/27/23	07/31/23	Glass Jar, 2 oz.
Conf 50A	E307173-18A	Soil	07/27/23	07/31/23	Glass Jar, 2 oz.



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/31/2023 3:25:11PM

Conf 4A

E307173-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Benzene	ND	0.0250	1	07/31/23	07/31/23	
Ethylbenzene	ND	0.0250	1	07/31/23	07/31/23	
Toluene	ND	0.0250	1	07/31/23	07/31/23	
o-Xylene	ND	0.0250	1	07/31/23	07/31/23	
p,m-Xylene	ND	0.0500	1	07/31/23	07/31/23	
Total Xylenes	ND	0.0250	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene	102 %	70-130		07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4	94.9 %	70-130		07/31/23	07/31/23	
Surrogate: Toluene-d8	103 %	70-130		07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene	102 %	70-130		07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4	94.9 %	70-130		07/31/23	07/31/23	
Surrogate: Toluene-d8	103 %	70-130		07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2331004
Diesel Range Organics (C10-C28)	ND	25.0	1	07/31/23	07/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/31/23	07/31/23	
Surrogate: n-Nonane	112 %	50-200		07/31/23	07/31/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2331006
Chloride	632	20.0	1	07/31/23	07/31/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/31/2023 3:25:11PM

Conf 6A

E307173-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Benzene	ND	0.0250	1	07/31/23	07/31/23	
Ethylbenzene	ND	0.0250	1	07/31/23	07/31/23	
Toluene	ND	0.0250	1	07/31/23	07/31/23	
o-Xylene	ND	0.0250	1	07/31/23	07/31/23	
p,m-Xylene	ND	0.0500	1	07/31/23	07/31/23	
Total Xylenes	ND	0.0250	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene		103 %	70-130	07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		98.4 %	70-130	07/31/23	07/31/23	
Surrogate: Toluene-d8		104 %	70-130	07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene		103 %	70-130	07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		98.4 %	70-130	07/31/23	07/31/23	
Surrogate: Toluene-d8		104 %	70-130	07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2331004
Diesel Range Organics (C10-C28)	ND	25.0	1	07/31/23	07/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/31/23	07/31/23	
Surrogate: n-Nonane		105 %	50-200	07/31/23	07/31/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2331006
Chloride	20.0	20.0	1	07/31/23	07/31/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/31/2023 3:25:11PM

Conf 7A

E307173-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Benzene	ND	0.0250	1	07/31/23	07/31/23	
Ethylbenzene	ND	0.0250	1	07/31/23	07/31/23	
Toluene	ND	0.0250	1	07/31/23	07/31/23	
o-Xylene	ND	0.0250	1	07/31/23	07/31/23	
p,m-Xylene	ND	0.0500	1	07/31/23	07/31/23	
Total Xylenes	ND	0.0250	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene	98.0 %	70-130		07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4	98.8 %	70-130		07/31/23	07/31/23	
Surrogate: Toluene-d8	92.0 %	70-130		07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene	98.0 %	70-130		07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4	98.8 %	70-130		07/31/23	07/31/23	
Surrogate: Toluene-d8	92.0 %	70-130		07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2331004
Diesel Range Organics (C10-C28)	ND	25.0	1	07/31/23	07/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/31/23	07/31/23	
Surrogate: n-Nonane	111 %	50-200		07/31/23	07/31/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2331006
Chloride	34.1	20.0	1	07/31/23	07/31/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/31/2023 3:25:11PM

Conf 8A

E307173-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Benzene	ND	0.0250	1	07/31/23	07/31/23	
Ethylbenzene	ND	0.0250	1	07/31/23	07/31/23	
Toluene	ND	0.0250	1	07/31/23	07/31/23	
o-Xylene	ND	0.0250	1	07/31/23	07/31/23	
p,m-Xylene	ND	0.0500	1	07/31/23	07/31/23	
Total Xylenes	ND	0.0250	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene	98.2 %	70-130		07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4	97.4 %	70-130		07/31/23	07/31/23	
Surrogate: Toluene-d8	94.1 %	70-130		07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene	98.2 %	70-130		07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4	97.4 %	70-130		07/31/23	07/31/23	
Surrogate: Toluene-d8	94.1 %	70-130		07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2331004
Diesel Range Organics (C10-C28)	ND	25.0	1	07/31/23	07/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/31/23	07/31/23	
Surrogate: n-Nonane	110 %	50-200		07/31/23	07/31/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2331006
Chloride	23.9	20.0	1	07/31/23	07/31/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/31/2023 3:25:11PM

Conf 9A

E307173-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Benzene	ND	0.0250	1	07/31/23	07/31/23	
Ethylbenzene	ND	0.0250	1	07/31/23	07/31/23	
Toluene	ND	0.0250	1	07/31/23	07/31/23	
o-Xylene	ND	0.0250	1	07/31/23	07/31/23	
p,m-Xylene	ND	0.0500	1	07/31/23	07/31/23	
Total Xylenes	ND	0.0250	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene		105 %	70-130	07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		97.8 %	70-130	07/31/23	07/31/23	
Surrogate: Toluene-d8		104 %	70-130	07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene		105 %	70-130	07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		97.8 %	70-130	07/31/23	07/31/23	
Surrogate: Toluene-d8		104 %	70-130	07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2331004
Diesel Range Organics (C10-C28)	ND	25.0	1	07/31/23	07/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/31/23	07/31/23	
Surrogate: n-Nonane		111 %	50-200	07/31/23	07/31/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2331006
Chloride	46.9	20.0	1	07/31/23	07/31/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/31/2023 3:25:11PM

Conf 10A

E307173-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Benzene	ND	0.0250	1	07/31/23	07/31/23	
Ethylbenzene	ND	0.0250	1	07/31/23	07/31/23	
Toluene	ND	0.0250	1	07/31/23	07/31/23	
o-Xylene	ND	0.0250	1	07/31/23	07/31/23	
p,m-Xylene	ND	0.0500	1	07/31/23	07/31/23	
Total Xylenes	ND	0.0250	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene		107 %	70-130	07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		97.2 %	70-130	07/31/23	07/31/23	
Surrogate: Toluene-d8		102 %	70-130	07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene		107 %	70-130	07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		97.2 %	70-130	07/31/23	07/31/23	
Surrogate: Toluene-d8		102 %	70-130	07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2331004
Diesel Range Organics (C10-C28)	ND	25.0	1	07/31/23	07/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/31/23	07/31/23	
Surrogate: n-Nonane		88.8 %	50-200	07/31/23	07/31/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2331006
Chloride	26.8	20.0	1	07/31/23	07/31/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/31/2023 3:25:11PM

Conf 11A

E307173-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Benzene	ND	0.0250	1	07/31/23	07/31/23	
Ethylbenzene	ND	0.0250	1	07/31/23	07/31/23	
Toluene	ND	0.0250	1	07/31/23	07/31/23	
o-Xylene	ND	0.0250	1	07/31/23	07/31/23	
p,m-Xylene	ND	0.0500	1	07/31/23	07/31/23	
Total Xylenes	ND	0.0250	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene		101 %	70-130	07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		98.9 %	70-130	07/31/23	07/31/23	
Surrogate: Toluene-d8		104 %	70-130	07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene		101 %	70-130	07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		98.9 %	70-130	07/31/23	07/31/23	
Surrogate: Toluene-d8		104 %	70-130	07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2331004
Diesel Range Organics (C10-C28)	ND	25.0	1	07/31/23	07/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/31/23	07/31/23	
Surrogate: n-Nonane		94.4 %	50-200	07/31/23	07/31/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2331006
Chloride	26.2	20.0	1	07/31/23	07/31/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/31/2023 3:25:11PM

Conf 15A

E307173-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Benzene	ND	0.0250	1	07/31/23	07/31/23	
Ethylbenzene	ND	0.0250	1	07/31/23	07/31/23	
Toluene	ND	0.0250	1	07/31/23	07/31/23	
o-Xylene	ND	0.0250	1	07/31/23	07/31/23	
p,m-Xylene	ND	0.0500	1	07/31/23	07/31/23	
Total Xylenes	ND	0.0250	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene		100 %	70-130	07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	07/31/23	07/31/23	
Surrogate: Toluene-d8		105 %	70-130	07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene		100 %	70-130	07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	07/31/23	07/31/23	
Surrogate: Toluene-d8		105 %	70-130	07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2331004
Diesel Range Organics (C10-C28)	89.0	25.0	1	07/31/23	07/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/31/23	07/31/23	
Surrogate: n-Nonane		94.2 %	50-200	07/31/23	07/31/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2331006
Chloride	1650	20.0	1	07/31/23	07/31/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/31/2023 3:25:11PM

Conf 16A

E307173-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Benzene	ND	0.0250	1	07/31/23	07/31/23	
Ethylbenzene	ND	0.0250	1	07/31/23	07/31/23	
Toluene	ND	0.0250	1	07/31/23	07/31/23	
o-Xylene	ND	0.0250	1	07/31/23	07/31/23	
p,m-Xylene	ND	0.0500	1	07/31/23	07/31/23	
Total Xylenes	ND	0.0250	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene		102 %	70-130	07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		98.8 %	70-130	07/31/23	07/31/23	
Surrogate: Toluene-d8		103 %	70-130	07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene		102 %	70-130	07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		98.8 %	70-130	07/31/23	07/31/23	
Surrogate: Toluene-d8		103 %	70-130	07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2331004
Diesel Range Organics (C10-C28)	98.1	25.0	1	07/31/23	07/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/31/23	07/31/23	
Surrogate: n-Nonane		96.5 %	50-200	07/31/23	07/31/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2331006
Chloride	1430	20.0	1	07/31/23	07/31/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/31/2023 3:25:11PM

Conf 21A

E307173-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Benzene	ND	0.0250	1	07/31/23	07/31/23	
Ethylbenzene	ND	0.0250	1	07/31/23	07/31/23	
Toluene	ND	0.0250	1	07/31/23	07/31/23	
o-Xylene	ND	0.0250	1	07/31/23	07/31/23	
p,m-Xylene	ND	0.0500	1	07/31/23	07/31/23	
Total Xylenes	ND	0.0250	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene	97.3 %	70-130		07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		07/31/23	07/31/23	
Surrogate: Toluene-d8	93.5 %	70-130		07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene	97.3 %	70-130		07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		07/31/23	07/31/23	
Surrogate: Toluene-d8	93.5 %	70-130		07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2331004
Diesel Range Organics (C10-C28)	ND	25.0	1	07/31/23	07/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/31/23	07/31/23	
Surrogate: n-Nonane	95.1 %	50-200		07/31/23	07/31/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2331006
Chloride	795	20.0	1	07/31/23	07/31/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/31/2023 3:25:11PM

Conf 24A

E307173-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Benzene	ND	0.0250	1	07/31/23	07/31/23	
Ethylbenzene	ND	0.0250	1	07/31/23	07/31/23	
Toluene	ND	0.0250	1	07/31/23	07/31/23	
o-Xylene	ND	0.0250	1	07/31/23	07/31/23	
p,m-Xylene	ND	0.0500	1	07/31/23	07/31/23	
Total Xylenes	ND	0.0250	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene	99.7 %	70-130		07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		07/31/23	07/31/23	
Surrogate: Toluene-d8	92.7 %	70-130		07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene	99.7 %	70-130		07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		07/31/23	07/31/23	
Surrogate: Toluene-d8	92.7 %	70-130		07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2331004
Diesel Range Organics (C10-C28)	92.8	25.0	1	07/31/23	07/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/31/23	07/31/23	
Surrogate: n-Nonane	93.4 %	50-200		07/31/23	07/31/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2331006
Chloride	2370	20.0	1	07/31/23	07/31/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/31/2023 3:25:11PM

Conf 26A

E307173-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Benzene	ND	0.0250	1	07/31/23	07/31/23	
Ethylbenzene	ND	0.0250	1	07/31/23	07/31/23	
Toluene	ND	0.0250	1	07/31/23	07/31/23	
o-Xylene	ND	0.0250	1	07/31/23	07/31/23	
p,m-Xylene	ND	0.0500	1	07/31/23	07/31/23	
Total Xylenes	ND	0.0250	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene	98.8 %	70-130		07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4	99.0 %	70-130		07/31/23	07/31/23	
Surrogate: Toluene-d8	94.6 %	70-130		07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene	98.8 %	70-130		07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4	99.0 %	70-130		07/31/23	07/31/23	
Surrogate: Toluene-d8	94.6 %	70-130		07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2331004
Diesel Range Organics (C10-C28)	66.8	25.0	1	07/31/23	07/31/23	
Oil Range Organics (C28-C36)	72.8	50.0	1	07/31/23	07/31/23	
Surrogate: n-Nonane	93.1 %	50-200		07/31/23	07/31/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2331006
Chloride	3680	40.0	2	07/31/23	07/31/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/31/2023 3:25:11PM

Conf 34A

E307173-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Benzene	ND	0.0250	1	07/31/23	07/31/23	
Ethylbenzene	ND	0.0250	1	07/31/23	07/31/23	
Toluene	ND	0.0250	1	07/31/23	07/31/23	
o-Xylene	ND	0.0250	1	07/31/23	07/31/23	
p,m-Xylene	ND	0.0500	1	07/31/23	07/31/23	
Total Xylenes	ND	0.0250	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene		105 %	70-130	07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		95.0 %	70-130	07/31/23	07/31/23	
Surrogate: Toluene-d8		104 %	70-130	07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene		105 %	70-130	07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		95.0 %	70-130	07/31/23	07/31/23	
Surrogate: Toluene-d8		104 %	70-130	07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2331004
Diesel Range Organics (C10-C28)	ND	25.0	1	07/31/23	07/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/31/23	07/31/23	
Surrogate: n-Nonane		94.1 %	50-200	07/31/23	07/31/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2331006
Chloride	736	20.0	1	07/31/23	07/31/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/31/2023 3:25:11PM

Conf 35A

E307173-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Benzene	ND	0.0250	1	07/31/23	07/31/23	
Ethylbenzene	ND	0.0250	1	07/31/23	07/31/23	
Toluene	ND	0.0250	1	07/31/23	07/31/23	
o-Xylene	ND	0.0250	1	07/31/23	07/31/23	
p,m-Xylene	ND	0.0500	1	07/31/23	07/31/23	
Total Xylenes	ND	0.0250	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene		106 %	70-130	07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		97.7 %	70-130	07/31/23	07/31/23	
Surrogate: Toluene-d8		104 %	70-130	07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene		106 %	70-130	07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		97.7 %	70-130	07/31/23	07/31/23	
Surrogate: Toluene-d8		104 %	70-130	07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2331004
Diesel Range Organics (C10-C28)	ND	25.0	1	07/31/23	07/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/31/23	07/31/23	
Surrogate: n-Nonane		94.3 %	50-200	07/31/23	07/31/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2331006
Chloride	931	20.0	1	07/31/23	07/31/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/31/2023 3:25:11PM

Conf 40A

E307173-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Benzene	ND	0.0250	1	07/31/23	07/31/23	
Ethylbenzene	ND	0.0250	1	07/31/23	07/31/23	
Toluene	ND	0.0250	1	07/31/23	07/31/23	
o-Xylene	ND	0.0250	1	07/31/23	07/31/23	
p,m-Xylene	ND	0.0500	1	07/31/23	07/31/23	
Total Xylenes	ND	0.0250	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene		104 %	70-130	07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	07/31/23	07/31/23	
Surrogate: Toluene-d8		103 %	70-130	07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene		104 %	70-130	07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	07/31/23	07/31/23	
Surrogate: Toluene-d8		103 %	70-130	07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2331004
Diesel Range Organics (C10-C28)	ND	25.0	1	07/31/23	07/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/31/23	07/31/23	
Surrogate: n-Nonane		95.2 %	50-200	07/31/23	07/31/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2331006
Chloride	715	20.0	1	07/31/23	07/31/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/31/2023 3:25:11PM

Conf 41A

E307173-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Benzene	ND	0.0250	1	07/31/23	07/31/23	
Ethylbenzene	ND	0.0250	1	07/31/23	07/31/23	
Toluene	ND	0.0250	1	07/31/23	07/31/23	
o-Xylene	ND	0.0250	1	07/31/23	07/31/23	
p,m-Xylene	ND	0.0500	1	07/31/23	07/31/23	
Total Xylenes	ND	0.0250	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene		101 %	70-130	07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	07/31/23	07/31/23	
Surrogate: Toluene-d8		103 %	70-130	07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene		101 %	70-130	07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	07/31/23	07/31/23	
Surrogate: Toluene-d8		103 %	70-130	07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2331004
Diesel Range Organics (C10-C28)	ND	25.0	1	07/31/23	07/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/31/23	07/31/23	
Surrogate: n-Nonane		94.4 %	50-200	07/31/23	07/31/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2331006
Chloride	680	20.0	1	07/31/23	07/31/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/31/2023 3:25:11PM

Conf 49A

E307173-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Benzene	ND	0.0250	1	07/31/23	07/31/23	
Ethylbenzene	ND	0.0250	1	07/31/23	07/31/23	
Toluene	ND	0.0250	1	07/31/23	07/31/23	
o-Xylene	ND	0.0250	1	07/31/23	07/31/23	
p,m-Xylene	ND	0.0500	1	07/31/23	07/31/23	
Total Xylenes	ND	0.0250	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene		100 %	70-130	07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	07/31/23	07/31/23	
Surrogate: Toluene-d8		93.3 %	70-130	07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene		100 %	70-130	07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	07/31/23	07/31/23	
Surrogate: Toluene-d8		93.3 %	70-130	07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2331004
Diesel Range Organics (C10-C28)	ND	25.0	1	07/31/23	07/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/31/23	07/31/23	
Surrogate: n-Nonane		91.9 %	50-200	07/31/23	07/31/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2331006
Chloride	44.6	20.0	1	07/31/23	07/31/23	



Sample Data

Kaiser Francis Oil Company
1224 Standpipe Rd
Carlsbad NM, 88220

Project Name: NBL Pad #6
Project Number: 21022-0001
Project Manager: Georgeann Goodman

Reported:
7/31/2023 3:25:11PM

Conf 50A

E307173-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Benzene	ND	0.0250	1	07/31/23	07/31/23	
Ethylbenzene	ND	0.0250	1	07/31/23	07/31/23	
Toluene	ND	0.0250	1	07/31/23	07/31/23	
o-Xylene	ND	0.0250	1	07/31/23	07/31/23	
p,m-Xylene	ND	0.0500	1	07/31/23	07/31/23	
Total Xylenes	ND	0.0250	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene		101 %	70-130	07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		99.6 %	70-130	07/31/23	07/31/23	
Surrogate: Toluene-d8		94.1 %	70-130	07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2331001
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene		101 %	70-130	07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		99.6 %	70-130	07/31/23	07/31/23	
Surrogate: Toluene-d8		94.1 %	70-130	07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2331004
Diesel Range Organics (C10-C28)	ND	25.0	1	07/31/23	07/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/31/23	07/31/23	
Surrogate: n-Nonane		93.1 %	50-200	07/31/23	07/31/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2331006
Chloride	34.3	20.0	1	07/31/23	07/31/23	



Definitions and Notes

Kaiser Francis Oil Company	Project Name:	NBL Pad #6	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	07/31/23 15:25

- 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.



PO #500666

Client: Kaiser Francis Oil Co
 Project: NBL Pad #16
 Project Manager: Georgeann
 Address: [redacted]
 City, State, Zip: [redacted]
 Phone: [redacted]
 Email: [redacted]
 Report due by: [redacted]

Bill To
 Attention: Wescom
 Address: 1224 Standpipe Rd
 City, State, Zip: Carlsbad NM
 Phone: 5157251311
 Email: georgeann
goodman@wescominc.com

Lab Use Only		TAT				EPA Program	
Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA
<u>E30117.3</u>	<u>21022-0001</u>	<u>X</u>					
Analysis and Method							
DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX
						<u>X</u>	
State							
NM	CO	UT	AZ	TX			
<u>X</u>							

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
1522	7/27	S	1	Conf 4A	1							X		
1536	7/27	S	1	Conf 6A	2							X		
1551	7/27	S	1	Conf 7A	3							X		
1534	7/27	S	1	Conf 8A	4							X		
1539	7/27	S	1	Conf 9A	5							X		
1545	7/27	S	1	Conf 10A	6							X		
1549	7/27	S	1	Conf 11A	7							X		
1434	7/27	S	1	Conf 15A	8							X		
1420	7/27	S	1	Conf 16A	9							X		
1440	7/27	S	1	Conf 21A	10							X		

Additional Instructions: Please send to georgeann.goodman@wescominc.com
Shari.harvester@wescominc.com Jey.Croce@wescominc.com Shane.Stolp@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	
<u>[Signature]</u>		<u>7/27/23</u>	<u>845PM</u>	<u>Michelle Gung</u>		<u>7-28-23</u>	<u>1040</u>	Received on ice: <u>Y/N</u>	
<u>[Signature]</u>		<u>7-28-23</u>	<u>1700</u>	<u>Andrew Russo</u>		<u>7-28-23</u>	<u>1730</u>	T1 _____ T2 _____ T3 _____	
<u>[Signature]</u>		<u>7-29-23</u>	<u>2400</u>	<u>Caitlin Mar</u>		<u>7/31/23</u>	<u>7:15</u>	AVG Temp °C <u>4</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.



envirotech

Project Information

Chain of Custody

Page 2 of 2

PO#50066

Client: <u>Kaiser Aluminum OIL Co</u> Project: <u>NBL Pad 6</u> Project Manager: <u>gorgearing</u> Address: _____ City, State, Zip: _____ Phone: _____ Email: _____ Report due by: _____					Bill To Attention: <u>Wescam</u> Address: <u>1224 Standpipe</u> City, State, Zip: <u>Carlsbad NM</u> Phone: <u>575 725 1311</u> Email: _____					<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="8">Lab Use Only</th> <th colspan="4">TAT</th> <th colspan="2">EPA Program</th> </tr> <tr> <td colspan="4">Lab WO# <u>E307113</u></td> <td colspan="4">Job Number <u>21022-0001</u></td> <td>1D</td> <td>2D</td> <td>3D</td> <td>Standard</td> <td>CWA</td> <td>SDWA</td> </tr> <tr> <td colspan="8" rowspan="2">Analysis and Method</td> <td colspan="4" rowspan="2"></td> <td colspan="2" rowspan="2">RCRA</td> </tr> <tr> </tr> <tr> <td>DRO/ORO by 8015</td> <td>GRO/DRO by 8015</td> <td>BTEX by 8021</td> <td>VOC by 8260</td> <td>Metals 6010</td> <td>Chloride 300.0</td> <td></td> <td></td> <td>BGDOC NM</td> <td>BGDOC TX</td> <td></td> <td></td> <td colspan="2">State</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>NM</td> <td>CO</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>UT</td> <td>AZ</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>TX</td> <td></td> </tr> <tr> <td colspan="14" style="text-align: center;">Remarks</td> </tr> </table>										Lab Use Only								TAT				EPA Program		Lab WO# <u>E307113</u>				Job Number <u>21022-0001</u>				1D	2D	3D	Standard	CWA	SDWA	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													
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1500	7/27	S	1	Conf 34 A	13							X																																																																																																																							
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1515	7/27	S	1	Conf 41 A	16							X																																																																																																																							
1556	7/27	S	1	Conf 49 A	17							X																																																																																																																							
1559	7/27	S	1	Conf 50 A	18							X																																																																																																																							

Additional Instructions:

Please see page one. Thank You!

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling 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	
<u>[Signature]</u>		<u>7-27-23</u>	<u>845PM</u>	<u>Michelle Cruz</u>		<u>7-28-23</u>	<u>1040</u>	Received on ice: <u>(Y) / N</u>	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3	
<u>Michelle Cruz</u>		<u>7-28-23</u>	<u>1700</u>	<u>Adrian Messo</u>		<u>7-28-23</u>	<u>1730</u>		
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C	
<u>Adrian Messo</u>		<u>7-29-23</u>	<u>2400</u>	<u>Carla Man</u>		<u>7/31/23</u>	<u>7:15</u>	<u>4</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.



envirotech

Envirotech Analytical Laboratory

Printed: 7/31/2023 8:41:33AM

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:	07/31/23 07:15	Work Order ID:	E307173
Phone:	575-725-1311	Date Logged In:	07/28/23 15:23	Logged In By:	Caitlin Mars
Email:	georgeann.goodman@wesominc.com	Due Date:	07/31/23 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? 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.

ATTACHMENT F

48-Hour Confirmation Notification Emails



Energizing America

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

North Bell Lake Pad #6 | Incident ID: nAPP2234143414

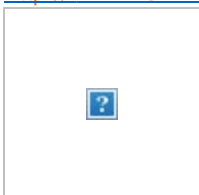
From: [Enviro, OCD, EMNRD](#)
To: [Georgeann Goodman](#)
Cc: [Bratcher, Michael, EMNRD](#); [Velez, Nelson, EMNRD](#)
Subject: RE: [EXTERNAL] 48-Hour Sampling Notice for (nAPP2234143414) NBL Pad 6
Date: Thursday, July 13, 2023 10:07:45 AM
Attachments: [image005.jpg](#)
[image006.png](#)
[image007.png](#)
[image008.png](#)
[image009.png](#)

Georgann,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JH

Jocelyn Harimon • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
[http:// www.emnrd.nm.gov](http://www.emnrd.nm.gov)



From: Georgeann Goodman <Georgeann.Goodman@WescomInc.com>
Sent: Wednesday, July 12, 2023 3:52 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Jerrod Inskeep <Jerrod.Inskeep@wescominc.com>
Subject: [EXTERNAL] 48-Hour Sampling Notice for (nAPP2234143414) NBL Pad 6

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Hello All,

We intend to delineate for closure at Bell Lake Unit North- Pad 6 on Monday, July 17th at 7:00 a.m.

Please let us know if you'd like to oversee the sampling process.

Thank you,

Georgeann Goodman

Environmental Technician - Permian

O (575) 725-1311 | **C** (505) 205-0455

WescomInc.com | Georgeann.goodman@WescomInc.com

"I am in charge of my own safety."



Minnesota | North Dakota | New Mexico | Wisconsin

From: [Wells, Shelly, EMNRD](#)
To: [Shar Harvester](#)
Cc: [Bratcher, Michael, EMNRD](#); [Velez, Nelson, EMNRD](#)
Subject: RE: [EXTERNAL] 48-Hour Sampling Notice for (nAPP2234143414) NBL Pad 6
Date: Tuesday, July 25, 2023 11:18:01 AM
Attachments: [image002.png](#)
[image003.png](#)
[image004.png](#)
[image005.png](#)

Hi Sharlene,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

[Shelly Wells](#) * Environmental Specialist-Advanced
Administrative Permitting Program
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive | Santa Fe, NM 87505
(505)469-7520 | Shelly.Wells@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

From: Shar Harvester <Shar.Harvester@WescomInc.com>
Sent: Tuesday, July 25, 2023 8:22 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>; Joey Croce <Joey.Croce@WescomInc.com>; Shane Stolp <shane.stolp@wescominc.com>; Georgeann Goodman <Georgeann.Goodman@WescomInc.com>
Subject: Re: [EXTERNAL] 48-Hour Sampling Notice for (nAPP2234143414) NBL Pad 6

Hello all,

We are extending the confirmation sampling period to Thursday and Friday of this week, July 27–28th.

Let me know if you have any questions.

Thanks,
Sharlene Harvester
218–355–8047

Wescom, Inc

Get [Outlook for iOS](#)

From: Georgeann Goodman <Georgeann.Goodman@WescomInc.com>
Sent: Wednesday, July 19, 2023 3:35 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>; Shar Harvester <Shar.Harvester@WescomInc.com>; Joey Croce <Joey.Croce@WescomInc.com>; Shane Stolp <shane.stolp@wescominc.com>
Subject: Re: [EXTERNAL] 48-Hour Sampling Notice for (nAPP2234143414) NBL Pad 6

To whom it may concern,
We plan to do conformation sampling at North Bell Lake Pad 6 Friday–Monday July 21st–July 24th.

If you have any questions or concerns, please let me know.

Thank you,
Georgeann Goodman

Sent from my Verizon, Samsung Galaxy smartphone
Get [Outlook for Android](#)

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Thursday, July 13, 2023 8:07:34 AM
To: Georgeann Goodman <Georgeann.Goodman@WescomInc.com>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Subject: RE: [EXTERNAL] 48-Hour Sampling Notice for (nAPP2234143414) NBL Pad 6

Georgann,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JH

Jocelyn Harimon • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
[http:// www.emnrd.nm.gov](http://www.emnrd.nm.gov)



From: Georgeann Goodman <Georgeann.Goodman@WescomInc.com>
Sent: Wednesday, July 12, 2023 3:52 PM

To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>

Cc: Jerrod Inskeep <Jerrod.Inskeep@wescominc.com>

Subject: [EXTERNAL] 48-Hour Sampling Notice for (nAPP2234143414) NBL Pad 6

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Hello All,

We intend to delineate for closure at Bell Lake Unit North- Pad 6 on Monday, July 17th at 7:00 a.m.

Please let us know if you'd like to oversee the sampling process.

Thank you,

Georgeann Goodman

Environmental Technician - Permian

O (575) 725-1311 | **C** (505) 205-0455

WescomInc.com | Georgeann.goodman@WescomInc.com

"I am in charge of my own safety."



Minnesota | North Dakota | New Mexico | Wisconsin

ATTACHMENT G

Extension Request



Energizing America

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

North Bell Lake Pad #6 | Incident ID: nAPP2234143414

From: [Hutton Andrew](#)
To: [Ashley Giovengo](#)
Cc: [Aaron Daniels](#)
Subject: Fwd: [EXTERNAL] Extension Request
Date: Wednesday, March 1, 2023 3:22:59 PM

Hutton Andrew
EHS Lead
Kaiser Francis Oil Company
C: 580.307.7363
O: 918.491.4615

From: Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>
Sent: Wednesday, March 1, 2023 10:07:31 AM
To: Hutton Andrew <Huttona@kfoc.net>
Cc: Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Subject: FW: [EXTERNAL] Extension Request

Hello Andrew

OCD has approved your request for a 5 month extension to August 1, 2023, however this will be your final extension request. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thanks,
Jennifer Nobui

From: Hutton Andrew <Huttona@kfoc.net>
Sent: Tuesday, February 28, 2023 2:00 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Aaron Daniels <aarond@kfoc.net>; Ashley Giovengo <ashley.giovengo@wescominc.com>
Subject: [EXTERNAL] Extension Request

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good morning, all,

This email serves as an extension request for the remediation of the release associated with the North Bell Lake Pad 6 (nAPP2234143414). I am requesting an extension from the original March 7, 2023, due date to August 1, 2023, in order to determine depth to water within a half-mile radius of the release. Drilling of the temporary water well has been scheduled for 06/21/2023 with Atkins Engineering.

Thank you for your time and consideration.

Hutton Andrew
EHS Lead
Kaiser Francis Oil Company
C: 580.307.7363
O: 918.491.4615

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

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
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CONDITIONS

Action 246664

CONDITIONS

Operator: KAISER-FRANCIS OIL CO PO Box 21468 Tulsa, OK 74121146	OGRID: 12361
	Action Number: 246664
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Accepted for the record. Please see App ID 254001 for most updated status.	11/20/2023