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.

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 B	ell Lake Pac	d #6 — 32.33512, -103.	.51409			
Depth to Groundwater		Clo	osure Criteri	a (units in mg/	/kg)	
		Chloride * numberical 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	> 101 ft bgs	20000	2500	1000	50	10
Surface Water	Yes or No		If ye	s, 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	No					
watering purposes?						
< 1000 feet from fresh water well or spring?	No					
Human and Other Areas						
< 300 feet from an occupied permanent residence,	No					
school, hospital, institution or church?	INO					
Within incorporated municipal boundaries or within a	No					
defined municipal fresh water well field?	INO					
< 100 feet from wetland?	No					
Within area overlying a subsurface mine?	No					
Within an unstable area?	No					
Within a 100-year floodplan?	No					

Table: Closure Criteria Statistics

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 ACTIVITES

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 $3^{\rm rd}$ and $4^{\rm th}$, 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

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

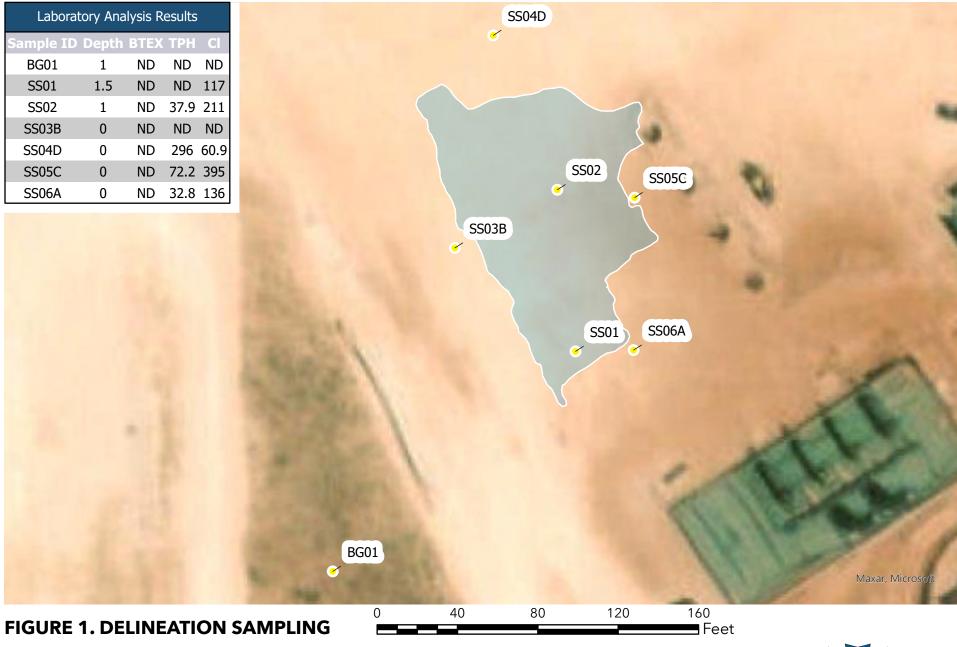
ATTACHMENT C. Closure Criteria Supporting Documents

ATTACHMENT D. Karst Map

ATTACHMENT E. Envirotech Laboratory Analysis Reports **ATTACHMENT F.** 48-hour Confirmation Notification Emails

ATTACHMENT G. Extension Request

FIGURES



LEGEND

Delineation Sample Locations

Spill Area

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

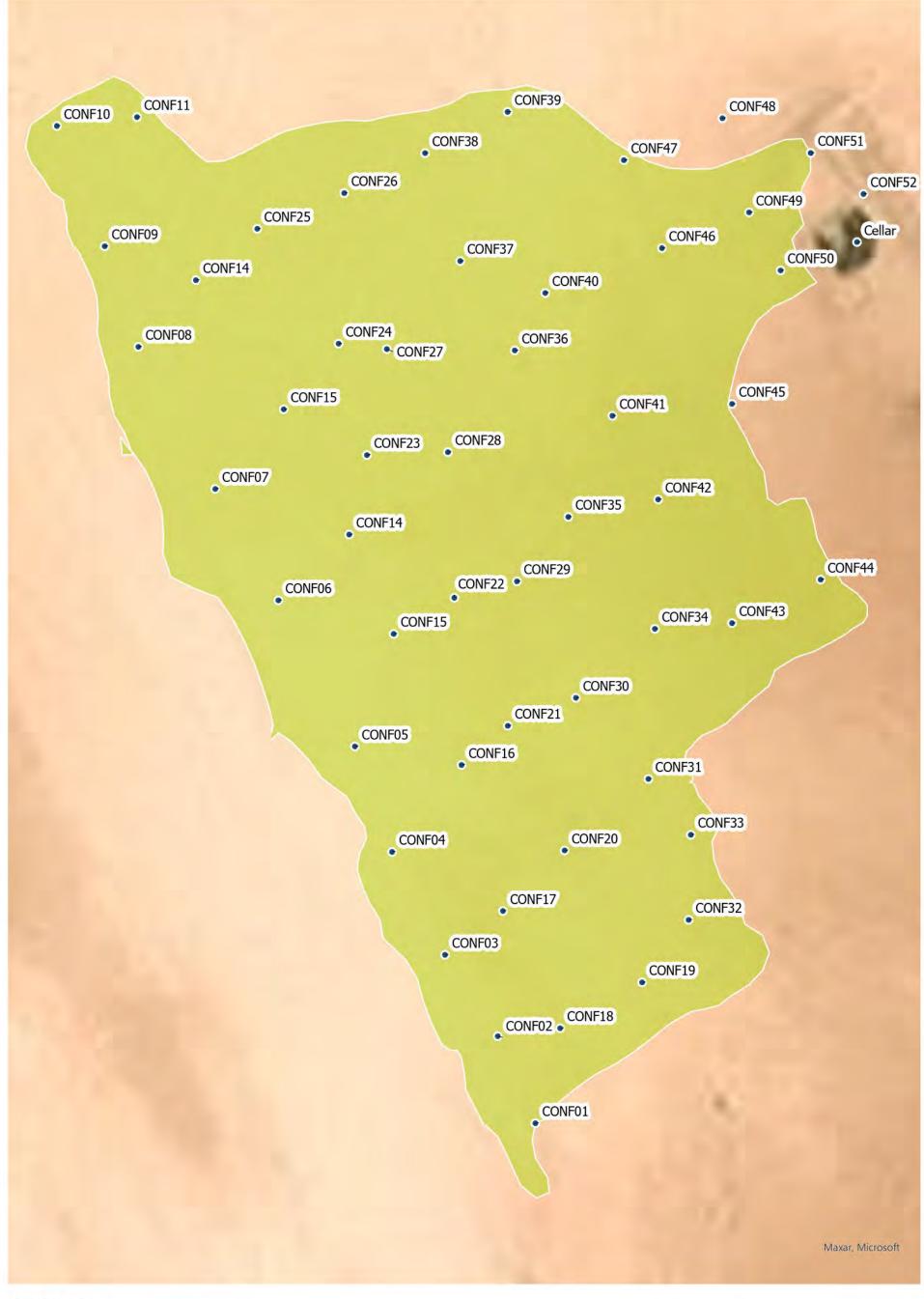


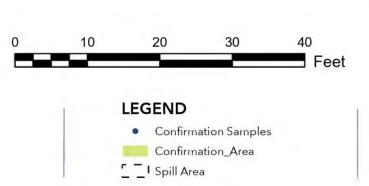
FIGURE 2. CONFIRMATION SAMPLES

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





TABLES

	North Bell Lake Pad #6 nAPP2234143414						
	Kaiser-Francis Oil Company 07/28/2023						
T	able 1. La	boratory	Analysi	s Resul	ts: Delineatio	n Sample	es es
Sam	ple Descrip	tion		Petroleu	m Hydrocarbor	าร	Inorganic
			Vola	tile	Extracta	able	
				BTEX			
			Benzene	(total)	TPH	GRO+DRO	Chloride
Sample ID	Depth (ft.)	Date	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(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

ND — Non-detect

DRO — Diesel Range Organics

mg/kg — Milligrams per Kilogram

GRO — Gasoline Range Organics

TPH — Total Petroleum Hydrocarbons

Notes

ft. — Feet

Bold Red - Results are above closure criteria

Gray Highlight - Background Samples

	North Bell Lake Pad #6 nAPP2234143414						
	Kaiser-Francis Oil Company 07/28/2023						
Tal	ble 2. Lab	oratory Ana	alysis Re	sults: C	onfirmatio	n Samples	5
Sam	ple Descrip	tion	Р	etroleur	n Hydrocarbo	ons	Inorganic
			Vola	tile	Extrac	table	
				BTEX			
			Benzene	(total)	TPH	GRO+DRO	Chloride
Sample ID	Depth (ft.)	Date	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Clo	osure Criter	ia	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
ABBREVIATIO	NS						
BTEX — Benzene,	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



	NOITH Dell Lake Pau #0 HAPP2234143414						
	Ka	iser-Francis	Oil Com	npany	07/28/2023	3	
Tak	ole 2. Lab	oratory Ana	alysis Re	sults: C	onfirmatio	n Samples	5
Sam	ple Descrip	tion	P	etroleur	n Hydrocarbo	ons	Inorganic
			Vola	tile	Extrac	table	
				BTEX			
			Benzene	(total)	TPH	GRO+DRO	Chloride
Sample ID	Depth (ft.)	Date	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Clo	sure Criter	ia	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

North Bell Lake Pad #6 | nAPP2234143414

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



Energizing America

North Bell Lake Pad #6 nAPP2234143414							
	Kai	iser-Francis	Oil Com	npany	07/28/2023	3	
Tal	Table 2. Laboratory Analysis Results: Confirmation Samples						
Sam	ple Descrip	tion	P	etroleur	n Hydrocarbo	ons	Inorganic
			Vola	tile	Extrac	table	
				BTEX			
			Benzene	(total)	TPH	GRO+DRO	Chloride
Sample ID	Depth (ft.)	Date	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Cle	osure Criter	ia	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

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Notes

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Bold Black - Resampled confirmation area results

Gray Highlighted - To be resampled



ATTACHMENT A

Signed C-141

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 Fc, 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	11.500
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
Е	06	23S	34E	Lea

Surface Owner:	State	X Federal	☐ Tribal	☐ Private
Desirate Chines		7 1 0000101		x x x x x x x x x x x x x x x x x

Nature and Volume of Release

Materi	al(s) Released (Select all that apply and attach calculations or specif	ic justification for the volumes provided below)			
Crude Oil	Volume Released (bbls) 10	Volume Recovered (bbls) 0			
Produced Water	Volume Released (bbls) 20	Volume Recovered (bbls) 0			
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	⊠ Yes □ No			
Condensate	Volume Released (bbls)	Volume Recovered (bbls)			
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)			
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)			
Cause of Release					
Vessel over-pressure du	ring ventless flowback operations resulted in release a	nd flash fire.			

Form C-141 Page 2 State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

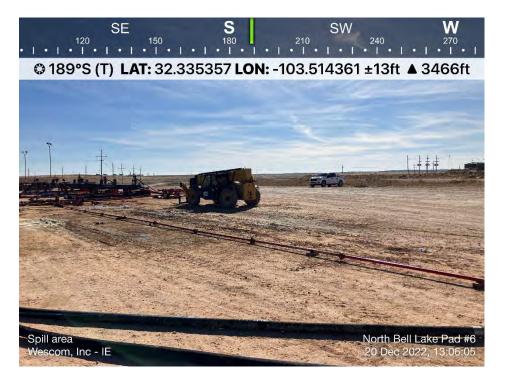
Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release? A flash fire resulted from the tank over-pressure.
	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? OCD Portal via NOR 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
☐ The source of the rele	ease has been stopped.
The impacted area ha	as been secured to protect human health and the environment.
Released materials h	ave been contained via the use of berms or dikes, absorbent pads, or other containment devices.
All free liquids and r	ecoverable materials have been removed and managed appropriately.
If all the actions describe	d above have <u>not</u> been undertaken, explain why:
D 1015000D (4) 37	
has begun, please attach	AAC the responsible party may commence remediation immediately after discovery of a release. If remediation a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
regulations all operators are public health or the environ failed to adequately investig	ormation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and a required to report and/or file certain release notifications and perform corrective actions for releases which may endanger ament. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have gate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
Printed Name: Witton A	
Signature:	Date: 17-70-22
email: huttona@kfoc.net	Telephone: 918-491-4615
OCD Only	
Received by:	Date:

ATTACHMENT B

Site Photos



Original Spill Area



Original Spill Area



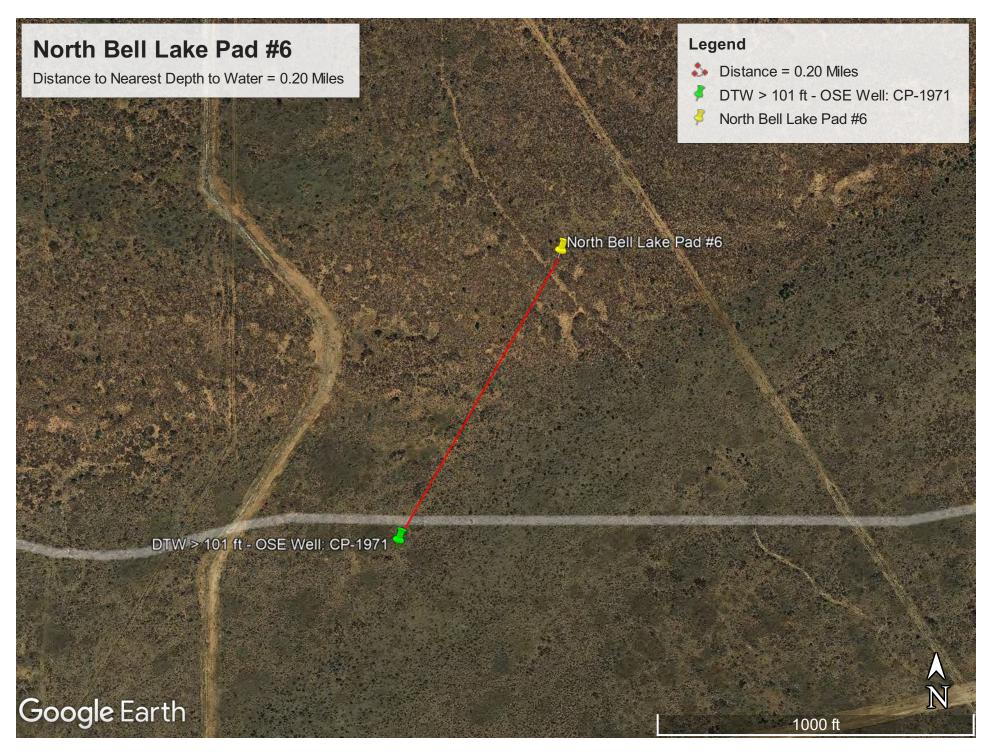
Scraped Spill Area



Scraped Spill Area

ATTACHMENT C

Closure Criteria Supporting Documents



Received by OCD: 8/1/2023 12:06:28,PM National Flood Hazard Layer FIRMette





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

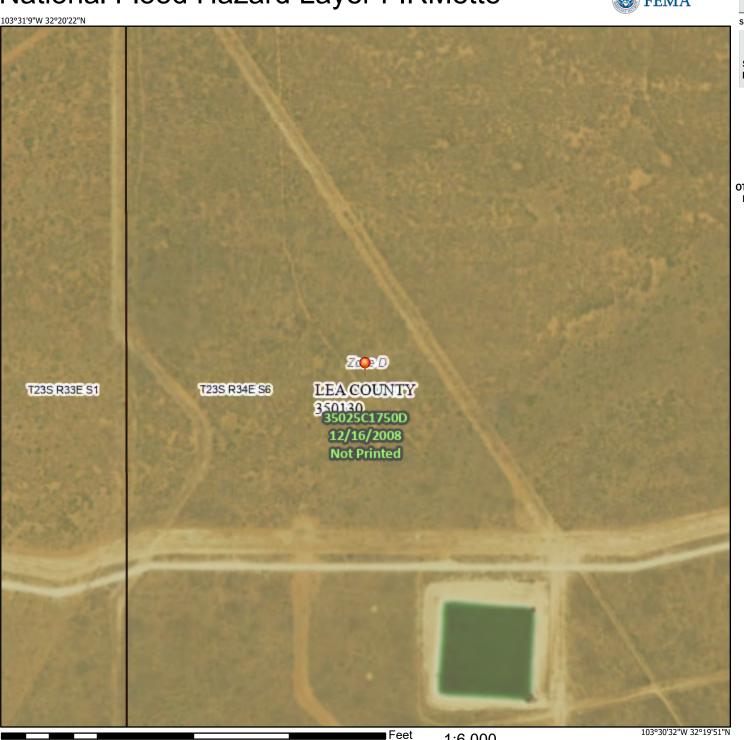
Without Base Flood Elevation (BFE) With BFE or Depth Zone AE, AO, AH, VE, AR SPECIAL FLOOD HAZARD AREAS Regulatory Floodway 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X **Future Conditions 1% Annual** Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes. Zone X OTHER AREAS OF Area with Flood Risk due to Levee Zone D FLOOD HAZARD NO SCREEN Area of Minimal Flood Hazard Zone X Effective LOMRs OTHER AREAS Area of Undetermined Flood Hazard Zone D - - - Channel, Culvert, or Storm Sewer **GENERAL** STRUCTURES | LILLILL Levee, Dike, or Floodwall 20.2 Cross Sections with 1% Annual Chance 17.5 Water Surface Elevation **Coastal Transect** Base Flood Elevation Line (BFE) Limit of Study **Jurisdiction Boundary** — --- Coastal Transect Baseline OTHER **Profile Baseline FEATURES** Hydrographic Feature Digital Data Available No Digital Data Available MAP PANELS Unmapped The pin displayed on the map is an approximate point selected by the user and does not represent

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

an authoritative property location.

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.



2.000



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 Pond

Lake

Other

Freshwater Forested/Shrub Wetland

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 Pond

Freshwater Forested/Shrub Wetland

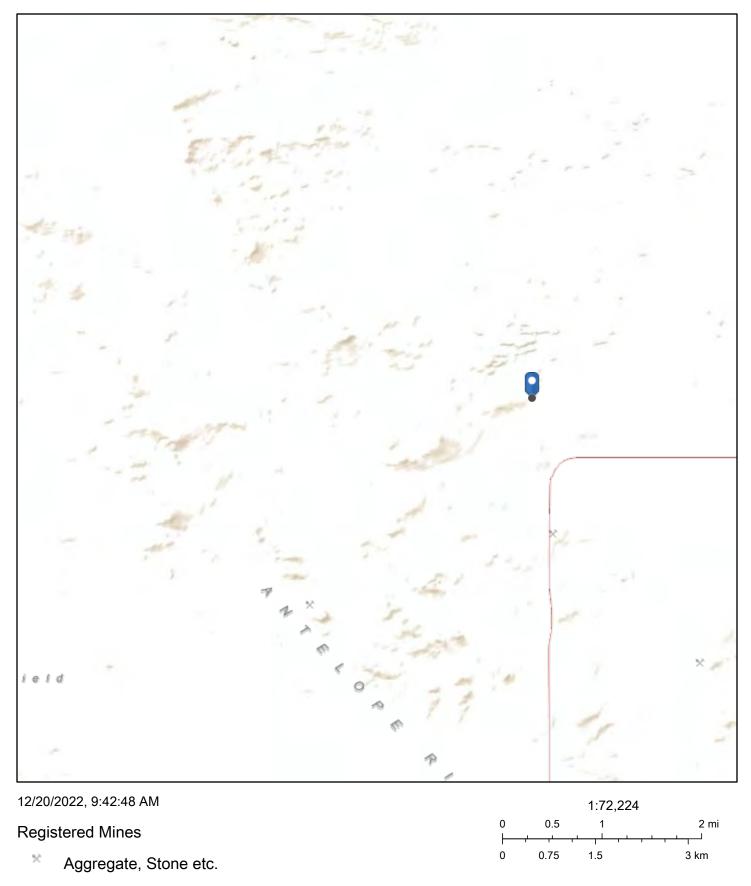
Lake

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



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



ATTACHMENT D

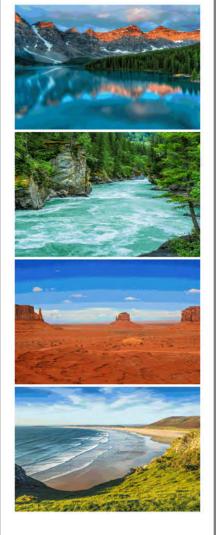
Karst Map



ATTACHMENT E

Envirotech Inc. Laboratory Analysis Reports

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





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

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 reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

Walter Hinchman

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Sample Summary

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

BG01 - 0' E302030-01

	E302030-01				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analyst: SL			Batch: 2306019
ND	0.0250	1	02/07/23	02/07/23	
ND	0.0250	1	02/07/23	02/07/23	
ND	0.0250	1	02/07/23	02/07/23	
ND	0.0250	1	02/07/23	02/07/23	
ND	0.0500	1	02/07/23	02/07/23	
ND	0.0250	1	02/07/23	02/07/23	
	102 %	70-130	02/07/23	02/07/23	
mg/kg	mg/kg	Analyst: SL			Batch: 2306019
ND	20.0	1	02/07/23	02/07/23	
	91.0 %	70-130	02/07/23	02/07/23	
mg/kg	mg/kg	Analyst: RAS			Batch: 2306043
28.4	25.0	1	02/08/23	02/08/23	
ND	50.0	1	02/08/23	02/08/23	
	110 %	50-200	02/08/23	02/08/23	
mg/kg	mg/kg	Ana	llyst: BA		Batch: 2306032
ND	20.0	1	02/07/23	02/07/23	
	mg/kg ND ND ND ND ND ND ND ND ND Mg/kg ND mg/kg	Result Reporting Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 IO2 % mg/kg mg/kg mg/kg ND 20.0 91.0 % mg/kg nD 50.0 IIO % mg/kg mg/kg mg/kg	Reporting Result Limit Dilution mg/kg mg/kg Ana ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 MD 0.0250 1 Mg/kg mg/kg Ana ND 20.0 1 91.0 % 70-130 mg/kg mg/kg mg/kg Ana 28.4 25.0 1 ND 50.0 1 110 % 50-200 mg/kg mg/kg Ana	Reporting Result Limit Dilution Prepared mg/kg mg/kg Analyst: SL ND 0.0250 1 02/07/23 ND 0.0250 1 02/07/23 ND 0.0250 1 02/07/23 ND 0.0500 1 02/07/23 ND 0.0250 1 02/07/23 ND 0.0250 1 02/07/23 mg/kg mg/kg Analyst: SL ND 20.0 1 02/07/23 mg/kg mg/kg Analyst: RAS 28.4 25.0 1 02/08/23 ND 50.0 1 02/08/23 ND 50.0 1 02/08/23 ND 50.0 1 02/08/23 ND 50.0 1 02/08/23	Reporting Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: SL ND 0.0250 1 02/07/23 02/07/23 ND 0.0500 1 02/07/23 02/07/23 ND 0.0250 1 02/07/23 02/07/23 ND 0.0250 1 02/07/23 02/07/23 mg/kg mg/kg Analyst: SL ND 20.0 1 02/07/23 02/07/23 mg/kg mg/kg Analyst: RAS 28.4 25.0 1 02/08/23 02/08/23 ND 50.0 1 02/08/23 02/08/23 ND 50.0 1 02/08/23 02/08/23 ND 50.0 1 02/08/23<



Kaiser Francis Oil CompanyProject Name:NBL Pad #6 12-7-2022 Spill1224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo2/9/2023 4:13:19PM

BG01 - 1'

E302030-02

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: 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	Analy	st: SL		Batch: 2306019
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/07/23	02/07/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.4 %	70-130	02/07/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: 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	
Surrogate: n-Nonane		110 %	50-200	02/08/23	02/08/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2306032
Chloride	ND	20.0	1	02/07/23	02/07/23	



Kaiser Francis Oil CompanyProject Name:NBL Pad #6 12-7-2022 Spill1224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo2/9/2023 4:13:19PM

SS01 - 1.5'

		E302030-03				
		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: 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	
o,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	An	alyst: SL		Batch: 2306019
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/07/23	02/07/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.3 %	70-130	02/07/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: 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	
Surrogate: n-Nonane		109 %	50-200	02/08/23	02/08/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: BA		Batch: 2306032
Chloride	117	20.0	1	02/07/23	02/07/23	



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	2/9/2023 4:13:19PM

SS02 - 1'

E302030-04

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: 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		100 %	70-130	02/07/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: SL		Batch: 2306019
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/07/23	02/07/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.5 %	70-130	02/07/23	02/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: 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	
Surrogate: n-Nonane		113 %	50-200	02/08/23	02/08/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2306032
Chloride	211	20.0	1	02/07/23	02/07/23	



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	2/9/2023 4:13:19PM

SS03B - 0' E302030-05

	E502050 05				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Anal	lyst: SL		Batch: 2306019
ND	0.0250	1	02/07/23	02/08/23	
ND	0.0250	1	02/07/23	02/08/23	
ND	0.0250	1	02/07/23	02/08/23	
ND	0.0250	1	02/07/23	02/08/23	
ND	0.0500	1	02/07/23	02/08/23	
ND	0.0250	1	02/07/23	02/08/23	
	101 %	70-130	02/07/23	02/08/23	
mg/kg	mg/kg	Anal	lyst: SL		Batch: 2306019
ND	20.0	1	02/07/23	02/08/23	
	92.9 %	70-130	02/07/23	02/08/23	
mg/kg	mg/kg	Anal	lyst: RAS		Batch: 2306043
ND	25.0	1	02/08/23	02/08/23	
ND	50.0	1	02/08/23	02/08/23	
	104 %	50-200	02/08/23	02/08/23	
mg/kg	mg/kg	Anal	lyst: BA		Batch: 2306032
ND	20.0	1	02/07/23	02/07/23	
	mg/kg ND ND ND ND ND ND ND ND ND Mg/kg ND mg/kg	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 ND 0.0250 MD 20.0250 MD 20.0 92.9 % mg/kg MD 25.0 ND 50.0 104 % mg/kg mg/kg mg/kg	mg/kg mg/kg Anal ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 MD 0.0250 1 MD 70-130 1 mg/kg mg/kg Anal ND 20.0 1 mg/kg mg/kg Anal ND 25.0 1 ND 50.0 1 104 % 50-200 mg/kg mg/kg Anal	Result Limit Dilution Prepared mg/kg mg/kg Analyst: SL ND 0.0250 1 02/07/23 ND 0.0250 1 02/07/23 ND 0.0250 1 02/07/23 ND 0.0500 1 02/07/23 ND 0.0250 1 02/07/23 ND 0.0250 1 02/07/23 mg/kg mg/kg Analyst: SL ND 20.0 1 02/07/23 mg/kg mg/kg Analyst: RAS ND 25.0 1 02/08/23 ND 50.0 1 02/08/23 ND 50.0 1 02/08/23 Mg/kg mg/kg Analyst: BA	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: SL ND 0.0250 1 02/07/23 02/08/23 ND 0.0250 1 02/07/23 02/08/23 ND 0.0250 1 02/07/23 02/08/23 ND 0.0500 1 02/07/23 02/08/23 ND 0.0250 1 02/07/23 02/08/23 ND 0.0250 1 02/07/23 02/08/23 mg/kg mg/kg Analyst: SL ND 20.0 1 02/07/23 02/08/23 mg/kg mg/kg Analyst: RAS ND 25.0 1 02/08/23 02/08/23 ND 25.0 1 02/08/23 02/08/23 ND 50.0 1 02/08/23 02/08/23 ND 50.0 1 02/08/23 02/08/23 ND 50.0 1 02/08/23 02/08/23



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	2/9/2023 4:13:19PM

SS04D - 0' E302030-06

		E302030-00				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Maryee	Result	Liiiit	Dilution	Trepared	7 thaty zed	110103
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: 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	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	02/07/23	02/08/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: SL		Batch: 2306019
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/07/23	02/08/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.2 %	70-130	02/07/23	02/08/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: 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	
Surrogate: n-Nonane		105 %	50-200	02/08/23	02/08/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: BA		Batch: 2306032
Chloride	60.9	20.0	1	02/07/23	02/07/23	



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	2/9/2023 4:13:19PM

SS05C - 0' E302030-07

Notes tch: 2306019
tch: 2306019
tch: 2306019
tch: 2306043
tch: 2306032



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	2/9/2023 4:13:19PM

SS06A - 0' E302030-08

		E302030-08				
	D. I.	Reporting	D.1 - :	ъ .		N
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: 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	
Surrogate: 4-Bromochlorobenzene-PID		100 %	70-130	02/07/23	02/08/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: SL		Batch: 2306019
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/07/23	02/08/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.4 %	70-130	02/07/23	02/08/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: 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	
Surrogate: n-Nonane		102 %	50-200	02/08/23	02/08/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: BA		Batch: 2306032
Chloride	136	20.0	1	02/07/23	02/07/23	



QC Summary Data

NBL Pad #6 12-7-2022 Spill Kaiser Francis Oil Company Project Name: 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 Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2306019-BLK1) Prepared: 02/07/23 Analyzed: 02/07/23 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 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 4.46 89.3 70-130 5.00 Benzene 0.0250 Ethylbenzene 4.55 0.0250 5.00 91.0 70-130 4.65 0.0250 5.00 92.9 70-130 Toluene 4.77 o-Xylene 0.0250 5.00 95.3 70-130 9.24 10.0 92.4 70-130 0.0500 p.m-Xvlene 93.4 70-130 14.0 15.0 Total Xylenes 0.0250 8.00 102 70-130 Surrogate: 4-Bromochlorobenzene-PID 8.13 Matrix Spike (2306019-MS1) Source: E302029-01 Prepared: 02/07/23 Analyzed: 02/07/23 4.68 0.0250 5.00 ND 54-133 Benzene 4.72 ND 94.5 61-133 Ethylbenzene 0.0250 5.00 Toluene 4.84 0.0250 5.00 ND 96.9 61-130 4.88 ND 97.6 63-131 5.00 0.0250 o-Xylene p,m-Xylene 9.59 0.0500 10.0 ND 95.9 63-131 0.0250 15.0 ND 63-131 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 8.38 8.00 Matrix Spike Dup (2306019-MSD1) Source: E302029-01 Prepared: 02/07/23 Analyzed: 02/07/23 5.54 0.0250 5.00 ND 111 54-133 16.8 20 61-133 5.60 0.0250 5.00 ND 112 16.9 20 Ethylbenzene 61-130 Toluene 5 73 0.0250 5.00 ND 115 16.8 20 5.76 5.00 ND 115 63-131 16.6 20 o-Xylene 0.0250 11.4 10.0 ND 114 63-131 17.0 20 p,m-Xylene 0.0500 Total Xylenes 17.1 0.0250 15.0 ND 114 63-131 16.8 20

8.00

101

70-130



Surrogate: 4-Bromochlorobenzene-PID

8.10

Surrogate: 1-Chloro-4-fluorobenzene-FID

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

Carlsbad NM, 88220		Project Manage	r: As	shley Gioveng	go				2/9/2023 4:13:19PM
	Non	halogenated	Organics	by EPA 80	15D - G	RO			Analyst: SL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2306019-BLK1)							Prepared: 0	2/07/23 An	alyzed: 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: 0	2/07/23 An	alyzed: 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: 0	2/07/23 An	alyzed: 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: 0	2/07/23 An	alyzed: 02/07/23
Gasoline Range Organics (C6-C10)	52.0	20.0	50.0	ND	104	70-130	5.19	20	

8.00

7.39

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

Carlsbad NM, 88220		Project Manage	r: As	hley Gioveng	go				2/9/2023 4:13:19PM
	Nonhal	logenated Or	ganics by	EPA 8015I) - DRO	/ORO			Analyst: RAS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2306043-BLK1)							Prepared: 0	2/08/23 A	nalyzed: 02/08/23
biesel Range Organics (C10-C28)	ND	25.0							
vil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	53.5		50.0		107	50-200			
CS (2306043-BS1)							Prepared: 0	2/08/23 A	nalyzed: 02/08/23
riesel Range Organics (C10-C28)	257	25.0	250		103	38-132			
urrogate: n-Nonane	52.7		50.0		105	50-200			
Matrix Spike (2306043-MS1)				Source:	E302034-0	01	Prepared: 0	2/08/23 A	nalyzed: 02/08/23
riesel Range Organics (C10-C28)	275	25.0	250	ND	110	38-132			
urrogate: n-Nonane	50.8		50.0		102	50-200			
Matrix Spike Dup (2306043-MSD1)				Source:	E302034-0	01	Prepared: 0	2/08/23 A	nalyzed: 02/08/23
tiesel Range Organics (C10-C28)	265	25.0	250	ND	106	38-132	3.74	20	
urrogate: n-Nonane	46.4		50.0		92.8	50-200			



Chloride

QC Summary Data

Kaiser Francis Oil Company 1224 Standpipe Rd		Project Name: Project Number		NBL Pad #6 12 1022-0001	-7-2022 Sp	oill			Reported:
Carlsbad NM, 88220		Project Manager	r: <i>A</i>	Ashley Gioveng	go				2/9/2023 4:13:19PM
		Anions	by EPA	300.0/9056	4				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2306032-BLK1)							Prepared: 0	2/07/23 A	nalyzed: 02/07/23
Chloride	ND	20.0							
LCS (2306032-BS1)							Prepared: 0	2/07/23 A	nalyzed: 02/07/23
Chloride	254	20.0	250		101	90-110			
Matrix Spike (2306032-MS1)				Source:	E302030-	01	Prepared: 0	2/07/23 A	nalyzed: 02/07/23
Chloride	260	20.0	250	ND	104	80-120			
Matrix Spike Dup (2306032-MSD1)				Source:	E302030-	01	Prepared: 0	2/07/23 A	nalyzed: 02/07/23

250

20.0

ND

103

80-120

0.657

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.



Client:	KFO			sAll	Bill To			as money	Lat	o Us	e Only	1 20 7	n si Aria			TA	T	EPA Pi	ogram
	NBL	Pad	#(0 17.7.2022 Att		inc		WO#			Job N			1D	2D	3D	Standard	CWA	SDWA
Project N	Nanager: Na	TSh IE	PELO		dress: 1224 Standi		£3	020	030				0001		<u> </u>				DCDA
				M,88220 Ph	y, State, Zip(ar16bad,, one: 505-382-12	-11			Т		Anaiysi	s an	d Metho	oa T	Т	r -			RCRA
Phone: 4	<u> 505 + 3</u>	82-16	11	En	nail: Ashicy giove	nandrascom	120	./20-12	.								200 BM-1533	State	
Email: A	Shley	. Gibuer	190 P.1	MSCOM inc.com	J. j.	Joseph	y 80;	y 80	<u>.</u>			္ပ		-			NM 20	UT AZ	TX
Report d	ue by:		<u>, , , , , , , , , , , , , , , , , , , </u>				RO b	RO b	8	826	6010	900		ΣŽ	ř		~		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID		Lab Number	DRO/ORO by	GRO/DRO by	ВТЕХ by 802.	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC	верос			Remarks	
0930	0403/23	5	1	BG01-0'		1								X					
0933	213123	5	1	BG01 -1'		2								X					
1115	2/3/23	5	1	5501-1.51		3								X					
	2/3/23	5	1	5502-1'		4								X					
1335	U3/23	5	1	5503B-0		5								X					
	2/3/23	5	1	5504 0-	2 ¹	U								X					
1535	V3173	5	1	5505 L-	۵,	7								X					
1227	2/3/23	5	1	5506 A -	Ο'	8								X					
Addition	al Instruc	tions:	reseri	red on	ICe: Please	, (1	Co	10	he	ر ا ا	-6 m	a	70	. S.E.	2.40	1	. (00		
I, (field sam	oler), attest to			city of this sample. I am aware	that tampering with or intentionally	y mislabelling the sample	locatio	on,									eived on ice the day t	hey are sample	ed or received
		`		nay be grounds for legal action.							packed in	ice at	an avg teπ	p above	0 but le	ss than 6	°C on subsequent day	/s.	
Relinguish	ed by: (Signa	tulje) KRE F	202	023 12:22	Received by: (Signature) Milll Gy &	Date 2-6-3		Time	22		Recei	ved	on ice:		ab Us 7/ N	se Onl	Ý		
Rud	ed by: (Signa	und	b 2	(2) 1665	Received by: (Signature)	Date 2-6-2	3	Time して	0		<u>T1</u>			T2			T3		
1 (//	ed by: (Signa	ture)	Date Z -	6-23 Time 7303	Received by: (Stemature)	to 2/7/2	3	Time S:	15		AVG 1	emi	p °C	4					
Sample Mat	rix: S Soil, So			queous, O - Other		Container		: g - gl	ass, p	- pc	ly/plas	tic,	ag - aml	er gla			<u>, a, mat, ni jiya ngani, 100 mili</u>	anasa nyyeji	
					ner arrangements are made. Ha	azardous samples will	be ret	urned t	to clie	nt or	dispose	d of	at the cli				port for the ana	lysis of the	above
samples is	applicable o	nly to those	e samples re	eceived by the laboratory w	ith this COC. The liability of the I	laboratory is limited to	the a	mount	paid f	or or	the re	port.							

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

Envirotech Analytical Laboratory

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)						
	he sample ID match the COC?		Yes				
	he number of samples per sampling site location mat	ch the COC	Yes				
	amples dropped off by client or carrier?		Yes	Carrier: C	Courier		
	e COC complete, i.e., signatures, dates/times, reques	ted analyses?	Yes	Carrier. <u>c</u>	<u>Journer</u>		
	all samples received within holding time?		Yes				
	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssic			,		Comment	s/Resolution
Sample 7	<u>Furn Around Time (TAT)</u>						
6. Did the	e COC indicate standard TAT, or Expedited TAT?		Yes				
Sample (
	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was th	e 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				
	ne sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes				
		temperature. 4	<u>c</u>				
	Container queous VOC samples present?		No				
	OC samples collected in VOA Vials?		No NA				
	head space less than 6-8 mm (pea sized or less)?		NA NA				
	•		NA NA				
	a trip blank (TB) included for VOC analyses?)					
	on-VOC samples collected in the correct containers? appropriate volume/weight or number of sample contain		Yes				
	· · · · · · · · · · · · · · · · · · ·	iers conecteu?	Yes				
Field Lal	field sample labels filled out with the minimum info	rmation					
	ample ID?	illiation.	Yes				
	Date/Time Collected?		Yes				
C	Collectors name?		No				
Sample I	Preservation_						
21. Does	the COC or field labels indicate the samples were pr	eserved?	No				
22. Are s	ample(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved m	etals?	No				
Multipha	ase Sample Matrix						
26. Does	the sample have more than one phase, i.e., multiphas	se?	No				
27. If yes	, does the COC specify which phase(s) is to be analy	zed?	NA				
Subconti	ract Laboratory						
	amples required to get sent to a subcontract laborator	rv?	No				
	a subcontract laboratory specified by the client and if	•	NA	Subcontract Lab	n na		
		oo waa	1112	Subcontract Luc). Hu		
CHent II	<u>nstruction</u>						

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

Report to:

Georgeann Goodman



5796 U.S. Hwy 64 Farmington, NM 87401

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





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

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 reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

Walter Hinchman

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Cell: 775-287-1762

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West Texas Midland/Odessa Area Rayny Hagan

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

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Sample Summary

Kaiser Francis Oil Company	Project Name: NBL Pad #6 Project Number: 21022-0001		Reported:
1224 Standpipe Rd			Reported:
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.



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

Conf 21 E307124-01

		200712101					
Analyte	Result	Reporting Limit	Dilu	tion	Prepared	Analyzed	Notes
,					•	Tillalyzea	
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	Į.	07/24/23	07/24/23	
Toluene	ND	0.0250	1		07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	l	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	l	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	7		Batch: 2330003
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	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	0	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	1400	500	10	0	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	A		Batch: 2330005
Chloride	3750	100	5	5	07/24/23	07/24/23	



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

Conf 22 E307124-02

	_	Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analy	/st: 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	Analy	/st: 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	Analy	/st: 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	Analy	/st: BA		Batch: 2330005
Chloride	3330	100	5	07/24/23	07/24/23	



Kaiser Francis Oil CompanyProject Name:NBL Pad #61224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Georgeann Goodman7/25/20233:52:12PM

Conf 23 E307124-03

	E307124-03				
Damlt		Dilution	Dronound	Amalyzad	Notes
Result	Limit	Dilution	Prepared	Anaiyzed	Notes
mg/kg	mg/kg	Anal	yst: IY		Batch: 2330003
ND	0.0250	1	07/24/23	07/24/23	
ND	0.0250	1	07/24/23	07/24/23	
ND	0.0250	1	07/24/23	07/24/23	
ND	0.0250	1	07/24/23	07/24/23	
ND	0.0500	1	07/24/23	07/24/23	
ND	0.0250	1	07/24/23	07/24/23	
	93.8 %	70-130	07/24/23	07/24/23	
	93.8 %	70-130	07/24/23	07/24/23	
	99.6 %	70-130	07/24/23	07/24/23	
mg/kg	mg/kg	Anal	yst: IY		Batch: 2330003
ND	20.0	1	07/24/23	07/24/23	
	93.8 %	70-130	07/24/23	07/24/23	
	93.8 %	70-130	07/24/23	07/24/23	
	99.6 %	70-130	07/24/23	07/24/23	
mg/kg	mg/kg	Anal	yst: JL		Batch: 2330010
2000	1250	50	07/24/23	07/24/23	
ND	2500	50	07/24/23	07/24/23	
	106 %	50-200	07/24/23	07/24/23	
mg/kg	mg/kg	Anal	yst: BA		Batch: 2330005
2420	200	10	07/24/23	07/24/23	
	ND Mg/kg ND mg/kg	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 MD 0.0500 ND 0.0250 MD 0.0250 93.8 % 99.6 % mg/kg mg/kg ND 20.0 93.8 % 99.6 % mg/kg mg/kg ND 2500 106 % mg/kg mg/kg	Reporting Result Limit Dilution mg/kg mg/kg Anal ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 ND 0.0250 1 93.8 % 70-130 93.8 % 70-130 99.6 % 70-130 mg/kg mg/kg Anal ng/kg mg/kg Anal	Reporting Result Limit Dilution Prepared mg/kg Analyst: IY ND 0.0250 1 07/24/23 ND 0.0250 1 07/24/23 ND 0.0250 1 07/24/23 ND 0.0250 1 07/24/23 ND 0.0500 1 07/24/23 ND 0.0250 1 07/24/23 93.8 % 70-130 07/24/23 93.8 % 70-130 07/24/23 99.6 % 70-130 07/24/23 93.8 % 70-130 07/24/23 93.8 % 70-130 07/24/23 93.8 % 70-130 07/24/23 99.6 % 70-130 07/24/23 99.6 % 70-130 07/24/23 99.6 % 70-130 07/24/23 99.6 % 70-130 07/24/23 99.6 % 70-130 07/24/23 ND 2500 50 07/24/23 <t< td=""><td>Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: IY ND 0.0250 1 07/24/23 07/24/23 ND 0.0250 1 07/24/23 07/24/23 ND 0.0250 1 07/24/23 07/24/23 ND 0.0500 1 07/24/23 07/24/23 ND 0.0250 1 07/24/23 07/24/23 ND 0.0500 1 07/24/23 07/24/23 ND 0.0250 1 07/24/23 07/24/23 93.8 % 70-130 07/24/23 07/24/23 93.8 % 70-130 07/24/23 07/24/23 mg/kg mg/kg Analyst: IV ND 20.0 1 07/24/23 07/24/23 93.8 % 70-130 07/24/23 07/24/23 93.8 % 70-130 07/24/23 07/24/23 99.6 % 70-130 07/24/23 07/24/23</td></t<>	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: IY ND 0.0250 1 07/24/23 07/24/23 ND 0.0250 1 07/24/23 07/24/23 ND 0.0250 1 07/24/23 07/24/23 ND 0.0500 1 07/24/23 07/24/23 ND 0.0250 1 07/24/23 07/24/23 ND 0.0500 1 07/24/23 07/24/23 ND 0.0250 1 07/24/23 07/24/23 93.8 % 70-130 07/24/23 07/24/23 93.8 % 70-130 07/24/23 07/24/23 mg/kg mg/kg Analyst: IV ND 20.0 1 07/24/23 07/24/23 93.8 % 70-130 07/24/23 07/24/23 93.8 % 70-130 07/24/23 07/24/23 99.6 % 70-130 07/24/23 07/24/23



Kaiser Francis Oil CompanyProject Name:NBL Pad #61224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Georgeann Goodman7/25/20233:52:12PM

Conf 24 E307124-04

		E30/124-04				
	D. Iv	Reporting		D		N
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Ana	alyst: 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	Ana	alyst: 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	Ana	alyst: 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	Ana	alyst: BA		Batch: 2330005
Chloride	3270	200	10	07/24/23	07/24/23	



Kaiser Francis Oil CompanyProject Name:NBL Pad #61224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Georgeann Goodman7/25/20233:52:12PM

Conf 25 E307124-05

		200.121.00				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Anal	yst: 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	Anal	yst: 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	Anal	yst: 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	Anal	yst: BA		Batch: 2330005
Chloride	2140	200	10	07/24/23	07/24/23	



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

Conf 26 E307124-06

		Reporting				
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Aı	nalyst: 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	Aı	nalyst: 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	Aı	nalyst: 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	Aı	nalyst: BA		Batch: 2330005
Chloride	7330	200	10	07/24/23	07/24/23	



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

Conf 27 E307124-07

Analyte	Result	Reporting Limit		ıtion	Prepared	Analyzed	Notes
				Analyst:		7 mary zea	
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Anaryst		07/24/22	Batch: 2330003
Benzene	ND	0.0250			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	İ	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:	: Л		Batch: 2330010
Diesel Range Organics (C10-C28)	1040	250	1	.0	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	1040	500	1	0	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	



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

Conf 28 E307124-08

	200.121.00				
Dagult			Duomono	A malvona J	Notes
Kesuit	Limit	Dilution	Prepared	Anaiyzed	Notes
mg/kg	mg/kg	Analy	/st: IY		Batch: 2330003
ND	0.0250	1	07/24/23	07/24/23	
ND	0.0250	1	07/24/23	07/24/23	
ND	0.0250	1	07/24/23	07/24/23	
ND	0.0250	1	07/24/23	07/24/23	
ND	0.0500	1	07/24/23	07/24/23	
ND	0.0250	1	07/24/23	07/24/23	
	95.6 %	70-130	07/24/23	07/24/23	
	94.1 %	70-130	07/24/23	07/24/23	
	99.6 %	70-130	07/24/23	07/24/23	
mg/kg	mg/kg	Analy	/st: IY		Batch: 2330003
ND	20.0	1	07/24/23	07/24/23	
	95.6 %	70-130	07/24/23	07/24/23	
	94.1 %	70-130	07/24/23	07/24/23	
	99.6 %	70-130	07/24/23	07/24/23	
mg/kg	mg/kg	Analy	vst: JL		Batch: 2330010
1370	500	20	07/24/23	07/24/23	
1540	1000	20	07/24/23	07/24/23	
	103 %	50-200	07/24/23	07/24/23	
mg/kg	mg/kg	Analy	st: BA		Batch: 2330005
· · · · · · · · · · · · · · · · · · ·	ND ND ND ND ND ND ND ND ND 1370	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 ND 0.0250 95.6 % 94.1 % 99.6 % 99.6 % mg/kg mg/kg ND 20.0 95.6 % 94.1 % 99.6 % 99.6 % mg/kg mg/kg 1370 500 1540 1000	mg/kg mg/kg Analy ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 95.6% 70-130 70-130 99.6% 70-130 99.6% ND 20.0 1 95.6% 70-130 99.6% 99.6% 70-130 99.6% 99.6% 70-130 99.6% mg/kg mg/kg Analy mg/kg mg/kg Analy 1370 500 20 1540 1000 20	Result Limit Dilution Prepared mg/kg mg/kg Analyst: IY ND 0.0250 1 07/24/23 ND 0.0250 1 07/24/23 ND 0.0250 1 07/24/23 ND 0.0250 1 07/24/23 ND 0.0500 1 07/24/23 ND 0.0250 1 07/24/23 95.6 % 70-130 07/24/23 99.6 % 70-130 07/24/23 mg/kg mg/kg Analyst: IY ND 20.0 1 07/24/23 99.6 % 70-130 07/24/23 99.6 % 70-130 07/24/23 99.6 % 70-130 07/24/23 99.6 % 70-130 07/24/23 99.6 % 70-130 07/24/23 mg/kg mg/kg Analyst: JL 1370 500 20 07/24/23 1540 1000 20 07/24/23	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: IY ND 0.0250 1 07/24/23 07/24/23 ND 0.0500 1 07/24/23 07/24/23 ND 0.0250 1 07/24/23 07/24/23 ND 0.0250 1 07/24/23 07/24/23 95.6 % 70-130 07/24/23 07/24/23 99.6 % 70-130 07/24/23 07/24/23 mg/kg mg/kg Analyst: IY ND 20.0 1 07/24/23 07/24/23 95.6 % 70-130 07/24/23 07/24/23 99.6 % 70-130 07/24/23 07/24/23 99.6 % 70-130 07/24/23 07/24/23 99.6 % 70



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

Conf 29 E307124-09

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Ana	alyst: 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	Ana	alyst: 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	Ana	alyst: 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	Ana	alyst: BA		Batch: 2330005
Chloride	3600	40.0	2	07/24/23	07/24/23	

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

Conf 30 E307124-10

Analyte	Result	Reporting Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	An	nalyst: 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	An	aalyst: 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	An	nalyst: 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	An	nalyst: BA		Batch: 2330005
Chloride	1720	200	10	07/24/23	07/24/23	

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

Conf 31 E307124-11

		200712111					
Analyte	Result	Reporting Limit		ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: IY		Batch: 2330003
Renzene	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	1	.0	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	659	500	1	0	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	



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

Conf 32 E307124-12

		E30/124-12				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
· ·				lyst: IY	7 Hary 200	Batch: 2330003
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Anai			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	Anal	lyst: 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	Anal	lyst: 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	Anal	lyst: BA		Batch: 2330005
Chloride	2210	200	10	07/24/23	07/24/23	



Kaiser Francis Oil CompanyProject Name:NBL Pad #61224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Georgeann Goodman7/25/20233:52:12PM

Conf 33 E307124-13

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Ana	ılyst: 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	Ana	ılyst: 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	Ana	ılyst: 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	Ana	ılyst: BA		Batch: 2330005
Chloride	1870	200	10	07/24/23	07/24/23	· · · · · · · · · · · · · · · · · · ·



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

Conf 34 E307124-14

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



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

Conf 35 E307124-15

	_	Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analy	st: 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	Analy	vst: 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	Analy	vst: BA		Batch: 2330005
Chloride	4120	40.0	2	07/24/23	07/24/23	

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

Conf 36 E307124-16

		Reporting				
Analyte	Result	Limit	Diluti	on Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	nalyst: 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	A	nalyst: 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	A	nalyst: BA		Batch: 2330005
Chloride	4970	200	10	07/24/23	07/24/23	

Kaiser Francis Oil CompanyProject Name:NBL Pad #61224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Georgeann Goodman7/25/20233:52:12PM

Conf 37 E307124-17

Pacult	Reporting	Dil	ution	Prepared	Analyzad	Notes
Result	Limit	Dill	шин	Frepared	Analyzed	Notes
mg/kg	mg/kg		Analyst:	IY		Batch: 2330003
ND	0.0250		1	07/24/23	07/24/23	
ND	0.0250		1	07/24/23	07/24/23	
ND	0.0250		1	07/24/23	07/24/23	
ND	0.0250		1	07/24/23	07/24/23	
ND	0.0500		1	07/24/23	07/24/23	
ND	0.0250		1	07/24/23	07/24/23	
	96.9 %	70-130		07/24/23	07/24/23	
	100 %	70-130		07/24/23	07/24/23	
	95.0 %	70-130		07/24/23	07/24/23	
mg/kg	mg/kg		Analyst:	IY		Batch: 2330003
ND	20.0		1	07/24/23	07/24/23	
	96.9 %	70-130		07/24/23	07/24/23	
	100 %	70-130		07/24/23	07/24/23	
	95.0 %	70-130		07/24/23	07/24/23	
mg/kg	mg/kg		Analyst:	JL		Batch: 2330010
1020	125	:	5	07/24/23	07/24/23	
670	250	:	5	07/24/23	07/24/23	
	74.1 %	50-200		07/24/23	07/24/23	
mg/kg	mg/kg		Analyst:	BA		Batch: 2330005
4330	100	:	5	07/24/23	07/24/23	
	ND Mg/kg ND mg/kg 1020 670	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 ND 0.0250 96.9 % 100 % 95.0 % mg/kg ND 20.0 96.9 % 100 % 95.0 % mg/kg mg/kg mg/kg 1020 125 670 250 74.1 % mg/kg	Result Limit Dilu mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 ND 0.0250 96.9 % 70-130 100 % 70-130 95.0 % 70-130 mg/kg mg/kg ND 20.0 96.9 % 70-130 100 % 70-130 95.0 % 70-130 mg/kg mg/kg 1020 125 670 250 74.1 % 50-200 mg/kg mg/kg	Result Limit Dilution mg/kg mg/kg Analyst: ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 ND 70-130 1 96.9 % 70-130 70-130 mg/kg mg/kg Analyst: ND 20.0 1 96.9 % 70-130 70-130 mg/kg mg/kg Analyst: 100 % 70-130 70-130 mg/kg mg/kg Analyst: 1020 125 5 670 250 5 74.1 % 50-200 mg/kg Analyst:	Result Limit Dilution Prepared mg/kg mg/kg Analyst: IY ND 0.0250 1 07/24/23 ND 0.0250 1 07/24/23 ND 0.0250 1 07/24/23 ND 0.0250 1 07/24/23 ND 0.0500 1 07/24/23 ND 0.0250 1 07/24/23 ND 0.0250 1 07/24/23 100 % 70-130 07/24/23 100 % 70-130 07/24/23 mg/kg mg/kg Analyst: IY ND 20.0 1 07/24/23 100 % 70-130 07/24/23 100 % 70-130 07/24/23 95.0 % 70-130 07/24/23 mg/kg mg/kg Analyst: JL 1020 125 5 07/24/23 670 250 5 07/24/23 mg/kg mg/kg Analyst: BA	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: IY ND 0.0250 1 07/24/23 07/24/23 ND 0.0500 1 07/24/23 07/24/23 ND 0.0250 1 07/24/23 07/24/23 ND 0.0250 1 07/24/23 07/24/23 ND 0.0250 1 07/24/23 07/24/23 100 % 70-130 07/24/23 07/24/23 95.0 % 70-130 07/24/23 07/24/23 mg/kg mg/kg Analyst: IY ND 20.0 1 07/24/23 07/24/23 100 % 70-130 07/24/23 07/24/23 100 % 70-130 07/24/23 07/24/23 100 %



Kaiser Francis Oil CompanyProject Name:NBL Pad #61224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Georgeann Goodman7/25/20233:52:12PM

Conf 38 E307124-18

		Reporting				
Analyte	Result	Limit	Diluti	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	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	A	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	A	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	A	Analyst: BA		Batch: 2330005
Chloride	7960	200	10	07/24/23	07/24/23	



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

Conf 39 E307124-19

		150/124-17				
Analyte	Result	Reporting Limit	Dilutio	on Prepared	Analyzed	Notes
- mary e				1	7 mary 2cd	
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Aı	nalyst: 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	Aı	nalyst: 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	Aı	nalyst: 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	Aı	nalyst: BA		Batch: 2330005
Chloride	8290	200	10	07/24/23	07/24/23	



Kaiser Francis Oil CompanyProject Name:NBL Pad #61224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Georgeann Goodman7/25/20233:52:12PM

Conf 40 E307124-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Analyte	Resuit	Limit	Dilution	Frepared	Anaryzeu	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Anal	yst: 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	Anal	yst: 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	Anal	yst: 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	Anal	yst: BA		Batch: 2330005
Chloride	1890	200	10	07/24/23	07/24/23	



QC Summary Data

NBL Pad #6 Kaiser Francis Oil Company Project Name: 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 Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2330003-BLK1) Prepared: 07/24/23 Analyzed: 07/24/23 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 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 0.500 99.9 70-130 Surrogate: Toluene-d8 0.500 LCS (2330003-BS1) Prepared: 07/24/23 Analyzed: 07/24/23 2.45 0.0250 2.50 97.8 70-130 Benzene 2.50 70-130 2.31 92.4 Ethylbenzene 0.0250 2.38 0.0250 2.50 95.1 70-130 2.40 70-130 0.0250 2.50 96.0 o-Xylene 4.77 5.00 95.4 70-130 p,m-Xylene 0.0500 7.17 0.0250 7.50 95.6 70-130 Total Xylenes Surrogate: Bromofluorobenzene 0.469 0.500 93.8 70-130 0.500 98.9 70-130 Surrogate: 1,2-Dichloroethane-d4 0.495 Surrogate: Toluene-d8 0.500 70-130 0.491 Matrix Spike (2330003-MS1) Source: E307124-07 Prepared: 07/24/23 Analyzed: 07/24/23 48-131 2.62 0.0250 2.50 ND 105 ND 45-135 Ethylbenzene 2.52 0.0250 2.50 101 ND 48-130 Toluene 2.58 0.0250 2.50 103 2.62 0.0250 2.50 ND 105 43-135 o-Xylene ND 104 43-135 p,m-Xylene 5.20 0.0500 5.00

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27
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7.50

0.500

0.500

0.500

ND

104

94.6

98.0

99.2

Source: E307124-07

43-135

70-130

70-130

70-130

7.82

0.473

0.490

0.496

0.0250



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

Total Xylenes

Surrogate: Bromofluorobenzene

Surrogate: Toluene-d8

Surrogate: 1,2-Dichloroethane-d4

Matrix Spike Dup (2330003-MSD1)

QC Summary Data

Kaiser Francis Oil CompanyProject Name:NBL Pad #6Reported:1224 Standpipe RdProject Number:21022-0001Carlsbad NM, 88220Project Manager:Georgeann Goodman7/25/20233:52:12PM

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

	Result	Limit	Level	Result	Rec	Limits	RPD	Lımıt	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2330003-BLK1)							Prepared: 0	7/24/23 A	nalyzed: 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: 0	7/24/23 A	nalyzed: 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: 0	7/24/23 A	nalyzed: 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: 0	7/24/23 A	nalyzed: 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

Carlsbad NM, 88220		Project Manage	r: Ge	eorgeann Goo	dman				7/25/2023 3:52:12PM
Nonhalogenated Organics by EPA 8015D - DRO/ORO Analyst: JL									
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2330010-BLK1)							Prepared: 0	7/24/23 Ar	nalyzed: 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: 0	7/24/23 Ar	nalyzed: 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:	E307124-0	05	Prepared: 0	7/24/23 Ar	nalyzed: 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:	E307124-0	05	Prepared: 0	7/24/23 Ar	nalyzed: 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			

Matrix Spike Dup (2330005-MSD1)

Chloride

3700

QC Summary Data

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

Anions by EPA 300.0/9056A									
Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
						Prepared: 0	7/24/23 Analy	yzed: 07/24/23	
ND	20.0								
						Prepared: 0	7/24/23 Analy	yzed: 07/24/23	
262	20.0	250		105	90-110				
			Source:	E307124-0	01	Prepared: 0	7/24/23 Analy	yzed: 07/24/23	
4550	100	250	3750	321	80-120			M4	
	mg/kg ND 262	Result Limit mg/kg ND 20.0	Result Limit Level mg/kg mg/kg mg/kg ND 20.0 262 20.0 250	Result Limit Level Result mg/kg mg/kg mg/kg mg/kg mg/kg ND 20.0 262 20.0 250 Source:	Result Limit Level Result Rec mg/kg mg/kg mg/kg mg/kg mg/kg %	Result Limit Level Result Rec Limits mg/kg mg/kg mg/kg mg/kg % % %	Result mg/kg Reporting Limit Level mg/kg Spike Level mg/kg Source Result Rec Limits RPD mg/kg Rec Limits RPD mg/kg RPD mg/kg Rec Limits RPD mg/kg RPD mg/kg Prepared: 0 ND 20.0 Prepared: 0 Prepared: 0	Result Reporting Limit Level Result Rec Limits RPD Limit Rmg/kg mg/kg mg/kg % % % % % % % % %	

250

100

Source: E307124-01

NR

80-120

20.6

3750

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.



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

Definitions and Notes

ſ	Kaiser Francis Oil Company	Project Name:	NBL Pad #6	
l	1224 Standpipe Rd	Project Number:	21022-0001	Reported:
1	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.



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Project Information	Cha	ain of Cus	tody	′	\sim	ام <i>د</i>	ا اـــــــــــــــــــــــــــــــــــ	100	17.1							Page <u>3</u>
Client: Kalsen Francis Oil Co Project: NBL Pad #16	Bill To Attention: UPSCOM INC.		Lab	WO#	Lal	b Use	e:On	ly :	334 9	1D	2D	TA 3D	T Stan	dard	EPA PI	ogram SDWA
Project Manager: OMINALANN GOOD M Address: 1224 Skund DI De 180 City, State, Zip Carl Smd 1VM 8822	Address: L City, State, Zip L		E3	<u>රා</u>	ia!				er 2000 d Metho				8.0 48 50 50 50 50			RCRA
Email: Afry African Apod Main a Report due by: Wescominc Com	Email: //		30 by 8015	40 by 8015	, 8021	8260	6010	Chloride 300.0		Σ	ř		NI L		State UT AZ	TX
Time Date Sampled Matrix No. of Containers Sample ID		Lab Number,	DRO/ORO	GRO/DRO by	BTEX by 8021	VOC by 8260	Metals 6010	Chlorid		BGDOC	ВСВОС				Remarks	
0840 7/21 Sal 1 Conf	21	Los	Y							X						
2842 Conf.	2	124	A							X						
0844 1 Conf	23	3								X	ļ					
2846 1 Conf	24	W.								X						
RUB 1 CONF.	25	5								Х						
peso I Conf	એ	6								X	_					
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5856 1 Conf :	29	9								X						
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Additional Instructions: 196 Seen on Oacl One	. Thank You! CO: Sh	\mathcal{I}	\sim	> ₽	λ.(XX	8 8	3	<u>B</u> :	St	Sli		360	SOX On		npled or
(field sampler), attest to the validity and authenticity of this sam ate or time of collection is considered fraud and may be grounds	for legal action. Sampled by:	pelling the sa	mple I	ocation	ر,		Sample receive	es requi ed pack	ring therma	an avg te	mp abo	ve o but	less than	h ice the day 6 °C on sub	f they are sar sequent days	npled or
elinguished by Simpature) A Date Tir	3: ODPM Michelly Grantine)	Date フース -c Date		Time	100 2		Rece	eived	ion lice:		abiu Vy i	se;Qn I	lŷ.			
Wille Guzde [1-22-ds]	ne Received by: (Signature)	724.	<u>43</u>	Time	<u>15(</u>	۷	T1 AVG	Ten	ıp ⁿ C			T W	T	3 1		

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the

above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



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Project Information			Ch	nain of Cu	stody			<u></u>	+110	103	11						Page
Client Valence Cu	010015	016-	DILL T-						e Only	183	24			TAT		- EDA D	
Client: Kalser Fr Project: NBL Par	ttio		Bill To		I ala V	MO#					-	1D	2D	TAT 3D	Standard	CWA	rogram SDWA
Project Manager:	agann	Address:	WESCOTT INC		F 2	WU#	110	U	216	22-	COO	X	20	30	Standard	CWA	3DVV
Address: 1224 Sto	ndoin	DRA City, State.	Zip 🗹			ب	100	A	analys	is and	Metho	d			PAGE OF		RCR/
City, State, Zip Carls	spad h	m 88220 Phone:	K														
Phone: 575 725	311	Email:	1/-		12	15					- 1					State	
Email Georgeann					by 8015	y 8015	51	0		0.0		5				UT AZ	TX
Report due by: WESC	ominc c	om			ORO b	RO b	/ 802	826	6010	e 300		Z	¥		X		
Time Date Mat Sampled Sampled	ix No. of Containers	Sample ID		Lab Number	DRO/O	GRO/DRO by	ВТЕХ ЬУ 802:	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC	верос			Remarks	i.
1900 7/21 Sa	1	Conf 31		11								X					
902 / 50	1	Conf32		12								X					
				13								X					
0904 50		Conf 33		1 11		H				1							
0904 Soi		Conf34		19						-		χ					
0908 50		Conf 35		15						4		χ					
0910 50	1	Conf 36		16	_							X					
0912 50		Conf 37		17								X					
0914 86		Conf 38		18								X					
0916 SU		Conf 39		101								X					
0918 V SO		Conf 40		20								X					
Additional Instructions		1011-40		140						_		1					
As seen or		one. Thank	VOL														
		nticity of this sample. I am aware that tan		belling the sa	mple lo	cation	,								eived on ice the d		
		d may be grounds for legal action.	Sampled by:						received	packed i	n ice at an				ss than 6 °C on su	bsequent days	6
Relinquished by: (Signature)	Dat	Time Receive	cully Sugnature)	Date 7-210	17	Time 150	50		Recei	ved o	n ice:		ab Us	e Only			
Relinquished by: (Signature)	ale 7	2123 1830 Receive	d by: (Signature)	Date 7-24	23	Time	:2/	X				(TO		
Relinquished by: (Signature)			d by: (Signature)	Date	~	Time			T1			4			<u>T3</u>		
										Temp		1					
Sample Matrix: S - Soil, Sd - Solid		Aqueous, O - Other results are reported unless other arra		Containe													



t or disposed of at the client expense. The report for the analysis of the paid for on the report.

Continuous entroise enviros en e

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

Envirotech Analytical Laboratory

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.

Work Order ID: E307124 Logged In By: Alexa Michaels Durier Comments/Resolution Project (NBL Pad #6) has been seperated into 3 workorders due to high volume of samples. Workorders are as follows: E307124, E307125 and E307126
Comments/Resolution Project (NBL Pad #6) has been seperated into 3 workorders due to high volume of samples. Workorders are as follows:
Comments/Resolution Project (NBL Pad #6) has been seperated into 3 workorders due to high volume of samples. Workorders are as follows:
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into 3 workorders due to high volume of samples. Workorders are as follows:
samples. Workorders are as follows:
-
E307124, E307125 and E307126
NA

Report to:

Georgeann Goodman







5796 U.S. Hwy 64 Farmington, NM 87401

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





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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

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 reguarding 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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Southern New Mexico Area Lynn Jarboe

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Office: 505-421-LABS(5227)

Cell: 505-320-4759

ljarboe@envirotech-inc.com

West Texas Midland/Odessa Area 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	Reported:
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.



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

Conf 01 E307125-01

	12071123 01				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analy	st: IY		Batch: 2330002
ND	0.0250	1	07/24/23	07/24/23	
ND	0.0250	1	07/24/23	07/24/23	
ND	0.0250	1	07/24/23	07/24/23	
ND	0.0250	1	07/24/23	07/24/23	
ND	0.0500	1	07/24/23	07/24/23	
ND	0.0250	1	07/24/23	07/24/23	
	98.9 %	70-130	07/24/23	07/24/23	
mg/kg	mg/kg	Analy	st: IY		Batch: 2330002
ND	20.0	1	07/24/23	07/24/23	
	82.5 %	70-130	07/24/23	07/24/23	
mg/kg	mg/kg	Analy	st: JL		Batch: 2330009
1590	125	5	07/24/23	07/24/23	
953	250	5	07/24/23	07/24/23	
	97.9 %	50-200	07/24/23	07/24/23	
mg/kg	mg/kg	Analy	st: BA		Batch: 2330006
2350	200	10	07/24/23	07/24/23	
	mg/kg ND ND ND ND ND ND ND ND ND SSSSSSSSSSS	Result Reporting Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 MD 0.0250 MD 0.0250 MD 20.0250 mg/kg mg/kg MD 20.0 82.5 % mg/kg mg/kg mg/kg 1590 125 953 250 97.9 % mg/kg mg/kg mg/kg	Reporting Result Limit Dilution mg/kg mg/kg Analys ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 ND 0.0250 1 MD 0.0250 1 MD 0.0250 1 MB/kg mg/kg Analys ND 20.0 1 82.5 % 70-130 mg/kg mg/kg Analys 1590 125 5 953 250 5 97.9 % 50-200 mg/kg Mg/kg Analys	Reporting Result Limit Dilution Prepared mg/kg Analyst: IY ND 0.0250 1 07/24/23 ND 0.0250 1 07/24/23 ND 0.0250 1 07/24/23 ND 0.0500 1 07/24/23 ND 0.0250 1 07/24/23 ND 0.0250 1 07/24/23 mg/kg mg/kg Analyst: IY ND 20.0 1 07/24/23 mg/kg mg/kg Analyst: JL 1590 125 5 07/24/23 953 250 5 07/24/23 mg/kg mg/kg Analyst: BA	Reporting Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: IY ND 0.0250 1 07/24/23 07/24/23 ND 0.0250 1 07/24/23 07/24/23 ND 0.0250 1 07/24/23 07/24/23 ND 0.0500 1 07/24/23 07/24/23 ND 0.0250 1 07/24/23 07/24/23 ND 0.0250 1 07/24/23 07/24/23 mg/kg mg/kg Analyst: IY ND 20.0 1 07/24/23 07/24/23 mg/kg mg/kg Analyst: IJ ND 20.0 1 07/24/23 07/24/23 mg/kg mg/kg Analyst: JL 1590 125 5 07/24/23 07/24/23 953 250 5 07/24/23 07/24/23 07/24/23 mg/kg mg/kg Analyst: BA



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

E307125-02						
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: 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	
Surrogate: 4-Bromochlorobenzene-PID		99.6 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: IY		Batch: 2330002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		82.0 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: 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	
Surrogate: n-Nonane		94.3 %	50-200	07/24/23	07/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: BA		Batch: 2330006
Chloride	2090	100	5	07/24/23	07/24/23	



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

E307125-03						
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: 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	
Surrogate: 4-Bromochlorobenzene-PID		98.4 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: IY		Batch: 2330002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		80.9 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: 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	
Surrogate: n-Nonane		94.1 %	50-200	07/24/23	07/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: BA		Batch: 2330006
Chloride	1110	40.0	2	07/24/23	07/24/23	



Anions by EPA 300.0/9056A

Chloride

Sample Data

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

Conf 04

E307125-04						
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: 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	
Surrogate: 4-Bromochlorobenzene-PID		98.8 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2330002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		80.3 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: 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	
Surrogate: n-Nonane		84.3 %	50-200	07/24/23	07/24/23	

mg/kg

200

mg/kg

3020

Analyst: BA

10

07/24/23

07/24/23



Batch: 2330006

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

Conf 05

E307125-05

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: 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	
Surrogate: 4-Bromochlorobenzene-PID		99.4 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: IY		Batch: 2330002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		80.3 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: 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	
Surrogate: n-Nonane		77.0 %	50-200	07/24/23	07/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: BA		Batch: 2330006
Chloride	2660	100	5	07/24/23	07/24/23	



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

E30712	25-06
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		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: 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	
Surrogate: 4-Bromochlorobenzene-PID		99.0 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: IY		Batch: 2330002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		81.0 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: 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	
Surrogate: n-Nonane		96.5 %	50-200	07/24/23	07/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: BA		Batch: 2330006
Chloride	2050	200	10	07/24/23	07/24/23	•



Sample Data

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

		E307125-07				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	lyst: 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	
Surrogate: 4-Bromochlorobenzene-PID		100 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	lyst: IY		Batch: 2330002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		83.6 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	lyst: 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	
Surrogate: n-Nonane		107 %	50-200	07/24/23	07/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	lyst: BA		Batch: 2330006
Chloride	1930	40.0	2	07/24/23	07/24/23	



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

Conf 08

E307125-08

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: 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	
Surrogate: 4-Bromochlorobenzene-PID		99.5 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: IY		Batch: 2330002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		80.3 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: 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	
Surrogate: n-Nonane		87.5 %	50-200	07/24/23	07/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: BA		Batch: 2330006
Chloride	2750	200	10	07/24/23	07/24/23	



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

		E307125-09				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: 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	
Surrogate: 4-Bromochlorobenzene-PID		100 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: IY		Batch: 2330002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		80.7 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: 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	
Surrogate: n-Nonane		92.3 %	50-200	07/24/23	07/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: BA		Batch: 2330006
Chloride	2690	200	10	07/24/23	07/24/23	



Ka	iser Francis Oil Company	Project Name:	NBL Pad #6	
122	24 Standpipe Rd	Project Number:	21022-0001	Reported:
Ca	rlsbad NM, 88220	Project Manager:	Georgeann Goodman	7/25/2023 3:55:00PM

		E307125-10				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: 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	
Surrogate: 4-Bromochlorobenzene-PID		100 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: IY		Batch: 2330002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		81.9 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: 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	
Surrogate: n-Nonane		88.8 %	50-200	07/24/23	07/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2330006
Chloride	2190	100	5	07/24/23	07/24/23	



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

		E307125-11				
		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: 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	
Surrogate: 4-Bromochlorobenzene-PID		95.3 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: IY		Batch: 2330002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		83.9 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: 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	
Surrogate: n-Nonane		97.4 %	50-200	07/24/23	07/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: BA		Batch: 2330006
Chloride	3680	40.0	2	07/24/23	07/24/23	



Ka	iser Francis Oil Company	Project Name:	NBL Pad #6	
122	24 Standpipe Rd	Project Number:	21022-0001	Reported:
Ca	rlsbad NM, 88220	Project Manager:	Georgeann Goodman	7/25/2023 3:55:00PM

E307125-	-12
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		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: 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	
Surrogate: 4-Bromochlorobenzene-PID		94.7 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: IY		Batch: 2330002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		83.6 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: 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	
Surrogate: n-Nonane		96.5 %	50-200	07/24/23	07/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: BA		Batch: 2330006
Chloride	1860	100	5	07/24/23	07/24/23	



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

Conf 13

E307125-13

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: 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	
Surrogate: 4-Bromochlorobenzene-PID		93.4 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: IY		Batch: 2330002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		83.6 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: 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	
Surrogate: n-Nonane		101 %	50-200	07/24/23	07/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2330006
Chloride	1010	100	5	07/24/23	07/24/23	•



Analyte

Benzene

Chloride

Volatile Organics by EPA 8021B

Sample Data

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

Conf 14 E307125-14

Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes	
mg/kg	mg/kg	Analyst: IY			Batch: 2330002	_
ND	0.0250	1	07/24/23	07/24/23		
ND	0.0250	1	07/24/23	07/24/23		
NID	0.0250	1	07/24/22	07/24/22		

07/24/23

07/24/23

Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	lyst: BA		Batch: 2330006
Surrogate: n-Nonane		107 %	50-200	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	967	500	10	07/24/23	07/24/23	
Diesel Range Organics (C10-C28)	1590	250	10	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	lyst: JL		Batch: 2330009
Surrogate: 1-Chloro-4-fluorobenzene-FID		84.4 %	70-130	07/24/23	07/24/23	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	lyst: IY		Batch: 2330002
Surrogate: 4-Bromochlorobenzene-PID		95.4 %	70-130	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	

200

1650

10

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

Conf 15

E307125-15

		D				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	•		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	
Surrogate: 4-Bromochlorobenzene-PID		93.9 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: IY		Batch: 2330002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		83.2 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: 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	
Surrogate: n-Nonane		96.2 %	50-200	07/24/23	07/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2330006
Chloride	2780	100	5	07/24/23	07/24/23	



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

Conf 16

E307125-16

		D				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: 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	
Surrogate: 4-Bromochlorobenzene-PID		93.7 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: IY		Batch: 2330002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		83.6 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: 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	
Surrogate: n-Nonane		103 %	50-200	07/24/23	07/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: BA		Batch: 2330006
Chloride	1170	100	5	07/24/23	07/24/23	



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

		E307125-17				
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: 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	
Surrogate: 4-Bromochlorobenzene-PID		93.7 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: IY		Batch: 2330002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		83.5 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: 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	
Surrogate: n-Nonane		93.1 %	50-200	07/24/23	07/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: BA		Batch: 2330006
Chloride	1250	40.0	2	07/24/23	07/24/23	



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

Conf 18

E307125-18

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B		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	
Surrogate: 4-Bromochlorobenzene-PID		94.1 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	Analyst: IY		Batch: 2330002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		84.3 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		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	
Surrogate: n-Nonane		88.5 %	50-200	07/24/23	07/24/23	
Anions by EPA 300.0/9056A		mg/kg	Analys	st: BA		Batch: 2330006
Chloride	1770	100	5	07/24/23	07/24/23	



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

Conf 19

E307125-19

		D '				
Analyte	Result	Reporting Limit	Dilution	n Prepared	Analyzed	Notes
Анагус	Kesun	Lillit	Dilution	i riepaied	Allalyzed	INUICS
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: 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	
Surrogate: 4-Bromochlorobenzene-PID		94.2 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	Ana	Analyst: IY		Batch: 2330002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		84.5 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: 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	
Surrogate: n-Nonane		79.3 %	50-200	07/24/23	07/24/23	
Anions by EPA 300.0/9056A		mg/kg	Analyst: BA			Batch: 2330006
	4280	100	5	07/24/23	07/24/23	



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

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: 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	
Surrogate: 4-Bromochlorobenzene-PID		95.5 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	Anal	Analyst: IY		Batch: 2330002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		84.5 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	Anal	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	
Surrogate: n-Nonane		81.6 %	50-200	07/24/23	07/24/23	
Anions by EPA 300.0/9056A		mg/kg	Anal	Analyst: BA		Batch: 2330006
· · · · · · · · · · · · · · · · · · ·		40.0	2	07/24/23	07/24/23	



QC Summary Data

NBL Pad #6 Kaiser Francis Oil Company Project Name: 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 Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % % Notes Blank (2330002-BLK1) Prepared: 07/24/23 Analyzed: 07/24/23 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 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 4.37 87.3 70-130 5.00 Benzene 0.0250 Ethylbenzene 4.55 0.0250 5.00 91.0 70-130 4.60 0.0250 5.00 91.9 70-130 Toluene 4.74 o-Xylene 0.0250 5.00 94.8 70-130 9.44 10.0 94.4 70-130 0.0500 p.m-Xvlene 94.6 70-130 14.2 15.0 Total Xylenes 0.0250 8.00 102 70-130 Surrogate: 4-Bromochlorobenzene-PID 8.12 Matrix Spike (2330002-MS1) Source: E307125-07 Prepared: 07/24/23 Analyzed: 07/24/23 4.52 0.0250 5.00 ND 54-133 Benzene ND 94.9 61-133 Ethylbenzene 4.74 0.0250 5.00 Toluene 4.78 0.0250 5.00 ND 95.6 61-130 4.92 ND 63-131 5.00 98.4 0.0250 o-Xylene p,m-Xylene 9.83 0.0500 10.0 ND 98.3 63-131 14.8 0.0250 15.0 ND 63-131 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 8.07 8.00 Matrix Spike Dup (2330002-MSD1) Source: E307125-07 Prepared: 07/24/23 Analyzed: 07/24/23 4.52 0.0250 5.00 ND 90.5 54-133 0.0475 20



61-133

61-130

63-131

63-131

63-131

70-130

0.471

0.243

0.237

0.468

0.391

20

20

20

20

20

Ethylbenzene Toluene

o-Xylene

p,m-Xylene

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

4.77

4 79

4.93

9.88

14.8

8.10

0.0250

0.0250

0.0250

0.0500

0.0250

5.00

5.00

5.00

10.0

15.0

8.00

ND

ND

ND

ND

ND

95.3

95.8

98.7

98.8

98.7

101

Surrogate: 1-Chloro-4-fluorobenzene-FID

QC Summary Data

Kaiser Francis Oil CompanyProject Name:NBL Pad #6Reported:1224 Standpipe RdProject Number:21022-0001Carlsbad NM, 88220Project Manager:Georgeann Goodman7/25/20233:55:00PM

Carlsbad NM, 88220		Project Manage	r: Ge	eorgeann Goo	dman			7/2	5/2023 3:55:00PM
	Non	halogenated	Organics l	by EPA 80	15D - G	RO			Analyst: IY
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2330002-BLK1)							Prepared: 0	7/24/23 Anal	yzed: 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: 0	7/24/23 Anal	yzed: 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: 0	7/24/23 Anal	yzed: 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: 0	7/24/23 Anal	yzed: 07/24/23
Gasoline Range Organics (C6-C10)	45.4	20.0	50.0	ND	90.7	70-130	1.23	20	

8.00

6.64

83.0

70-130

QC Summary Data

Kaiser Francis Oil CompanyProject Name:NBL Pad #6Reported:1224 Standpipe RdProject Number:21022-0001Carlsbad NM, 88220Project Manager:Georgeann Goodman7/25/20233:55:00PM

Carlsbad NM, 88220		Project Manage	r: Ge	eorgeann Goo	dman				7/25/2023 3:55:00PN
	Nonhal	logenated Or	ganics by l	EPA 8015I) - DRO	/ORO			Analyst: JL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2330009-BLK1)							Prepared: 0	7/24/23	Analyzed: 07/24/23
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	52.3		50.0		105	50-200			
CS (2330009-BS1)							Prepared: 0	7/24/23	Analyzed: 07/24/23
Diesel Range Organics (C10-C28)	266	25.0	250		106	38-132			
urrogate: n-Nonane	47.0		50.0		94.0	50-200			
Matrix Spike (2330009-MS1)				Source:	E307125-0	01	Prepared: 0	7/24/23	Analyzed: 07/24/23
Diesel Range Organics (C10-C28)	1700	125	250	1590	44.4	38-132			
urrogate: n-Nonane	42.4		50.0		84.7	50-200			
Matrix Spike Dup (2330009-MSD1)				Source:	E307125-0	01	Prepared: 0	7/24/23	Analyzed: 07/24/23
Diesel Range Organics (C10-C28)	2050	125	250	1590	187	38-132	19.0	20	M4
urrogate: n-Nonane	47.5		50.0		95.1	50-200			



Matrix Spike Dup (2330006-MSD1)

Chloride

2410

QC Summary Data

Kaiser Francis Oil Company 1224 Standpipe Rd	Project Name: Project Number:	NBL Pad #6 21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	7/25/2023 3:55:00PM
	Aniona by	EDA 200 0/0056 A	

Anions by EPA 300.0/9056A											
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limit %	Notes		
									11000		
Blank (2330006-BLK1)							Prepared: 0	7/24/23 An	alyzed: 07/24/23		
Chloride	ND	20.0									
LCS (2330006-BS1)							Prepared: 0	7/24/23 An	alyzed: 07/24/23		
Chloride	257	20.0	250		103	90-110					
Matrix Spike (2330006-MS1)				Source:	E307125-	01	Prepared: 0	7/24/23 An	alyzed: 07/24/23		
Chloride	2550	200	250	2350	81.7	80-120					

250

200

Source: E307125-01

23.1

80-120

5.90

2350

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.



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

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Definitions and Notes

ſ	Kaiser Francis Oil Company	Project Name:	NBL Pad #6	
l	1224 Standpipe Rd	Project Number:	21022-0001	Reported:
l	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.



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		Fran	215 0	11 Co	1000	Bill To W	escominc					e On	_				TAT		EPA P	rogram
Project:	VBL	Pad #	6	-	At	tention: WWW. Devoor	2003	Lab '	wo#	100		Job I			1D	2D	3D	Standard	CWA	SDWA
Project N	Nanager:	yemge	ann	acadma De Rd m 88020	an Ad	dress: 1224 Stand	DIDE KO	E.3	07	12		210)Vc	5-00	X					
<u>Address:</u>	1220	Stal	adpy	DE Kd	Cit	y, State, Zip Our Island	10m 8623	0			- /	Analy	sis ar	nd Metho	od T					RCRA
City, Stat	e, Zip (ersbo	adilo	m 883 70) <u> Ph</u>	one: 5757251311														
8	57572	21311			7 En	nail: goorgeann.go		1015	015									NA CO	State	LTVI
E <u>mail:</u> Report d	ue hv					@wescoming	c.com	by 8	by 8	8021	560	10	300.0		Z	×		NM CO	UT AZ	1X
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID			Lab Number	DRO/ORO by 8015	GRO/DRO by	TEX by 8	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC	BGDOC 1		X	Remarks	
	- 1	Cont	7	Conc	ΔΙ		\ \	Δ	9	m	>	2	U		X	ä				-
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0814			1	Confo	8		8								X					
0816			1	Conf	09		9								X					
0818	V	V	1	Confl	0		10								X					
	al Instru	ctions:	Sho	ar, har	weste	rawescomina	.com -	_	Sh	on	ie.	St	ole	Qu	resc	On	SID	c.com		
		nd to	o al	orapar	m.ac	od manle west	omincil	Or	7-	$ \bigcirc$	oe	4.1	CV	ocel	DU	es	on	INC.CC	CW	
						are that tampering with or intentionall						-						eived on ice the da ess than 6 °C on sub	A	200,000,000
				may be grounds			Date	$\overline{}$	Time	ma	()	receive	и риск	au iii ice at a	1		-		sequent days	
Relinquish	32	~		b123 3	3:00pr	Received by: (Signature)	A	0.00		GO		Rece	eived	on ice:	6	y N	e Only			
Relinquish	ed by: (Sig	dure)	Date 7-	2223	1830	Received by: (Signature)	7-24.	23	Time 5	30	2	T1			T2			T3		
Relinquished by: (Signature) Date Time Received by: (Signature)							Date		Time			AVG	Torr	n°C	4					
Sample Ma	riv. S - Sail	id - Solid Sa	- Sludge A	Aqueous, O - Ot	her		Container	Type	· g - a	lacc	_	_			her al	255 17	- VOA			
						other arrangements are made. H			-		-							The report for	the analysi	is of the
						oratory with this COC. The liability													2.74.75	20.012



he client expense. The report for the analysis of the ort.

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Client: K	alser	Franc	15 01	I Co_			Bill To						se On					TA	T	4	EPA P	rogram
Project:	NBLI	2ad #	6		At	tention: U	escom y Stand	inc p	La	ab W	0# 10	2	Job	Num	ber	1D	2D	3D	Stand	ard	CWA	SDWA
Project N	lanager:	GOVE	Hunr	e Rd	Ac	Idress: \ \	Carlsba	CPIDE KO	1	3	M_{c}				5-000		-					RCRA
City Stat	e Zin	Stan	dy	1883	DI DI	ione: <	UN 15100	awn	-0	1	_		Anaiy	sis ar	nd Meth	oa T			-			KCKA
Phone:	575	125131	101	10000		nail:													-		State	
		nnaa		na		idii.			- 5		8015			0					NN	1 co	UT AZ	TX
Report d	ue by: [vesco	mino	. com					4		8021	8260	5010	300		Σ	×		X			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	ý .			Lat Num	per 8	DRO/ORO	BTEX by 8	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC	верос		7		Remarks	
0830	اجار	Soil	1	Conf	11			1			4E					X						
	1	1						12								Х						
0822	-		1	Conf	14					-						/						_
0824			1	Conf	13			13)							X						
0826			1	Conf	14			11								X						
0828				Conf	15			15								X						
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Addition	al Instru	ctions:								1												
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Y. S. Carrier					ample. I am aw nds for legal acti		ng with or intentiona ampled by:	ally mislabelling ti	e samp	ole loca	ition,										y they are sar sequent days	
Relinquishe	200 200 100 100 200	3 CONT. 3 A VAL	Date		Time		: (Signaturg)	Date		Tir	me	_		-	-	1	ah Us	e On	lv			
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Relinquish		nature)	L Date		Time 1 × 30	Regeived by:	(Signature)	Date	4.2	Tie	53		T1			T2)		Т3			
Relinquished by: (Signature) Date Time Received by: (Signature)						Date	13		me	_			00	4								
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other CO							Conta	AVG Temp °C Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA														
						other arranger	nents are made		-					_			_			ort for	the analys	is of the

he client expense. The report for the analysis of the ort.

environment. 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.

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

Envirotech Analytical Laboratory

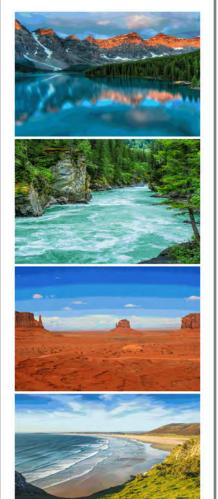
Sample Receipt Checklist (SRC)

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:		Due Date:		17:00 (0 day TAT)	Dogged in Dy.	110/10/110/110/1
Chain of	f Custody (COC)					
	the sample ID match the COC?		Yes			
2. Does t	the number of samples per sampling site location match	h the COC	Yes			
3. Were	samples dropped off by client or carrier?		Yes	Carrier: <u>C</u>	<u>'ourier</u>	
4. Was th	ne COC complete, i.e., signatures, dates/times, requeste	ed analyses?	Yes			
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in t	the field,	Yes			
	i.e, 15 minute hold time, are not included in this disucssion	1.		r	<u>Commen</u>	ts/Resolution
Sample '	Turn Around Time (TAT)				D (NIDI D. 1 #6) 1	1
6. Did th	e COC indicate standard TAT, or Expedited TAT?		Yes		Project (NBL Pad #6) h	-
Sample					into 3 workorders due t	to high volume of
	sample cooler received?		Yes		samples. Workorders as	re as follows:
8. If yes,	was cooler received in good condition?		Yes		E307124, E307125 and	I E307126
9. Was th	ne sample(s) received intact, i.e., not broken?		Yes		., == : . == :	
10. Were	custody/security seals present?		No			
11. If yes	s, were custody/security seals intact?		NA			
12. Was the	he sample received on ice? If yes, the recorded temp is 4°C, i. Note: Thermal preservation is not required, if samples are minutes of sampling	*	Yes			
13. If no	visible ice, record the temperature. Actual sample to	emperature: 4°0	<u>C</u>			
Sample	<u>Container</u>					
14. Are a	aqueous VOC samples present?		No			
15. Are \	VOC samples collected in VOA Vials?		NA			
16. Is the	e 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 1	non-VOC samples collected in the correct containers?		Yes			
19. Is the	appropriate volume/weight or number of sample containe	ers collected?	Yes			
Field La	<u>bel</u>					
	e field sample labels filled out with the minimum information	mation:				
	Sample ID?		Yes			
	Date/Time Collected? Collectors name?		Yes			
	Preservation		Yes			
	the COC or field labels indicate the samples were pre-	served?	No			
	sample(s) correctly preserved?	501 7 0 4 .	NA			
	o filteration required and/or requested for dissolved me	etals?	No			
	ase Sample Matrix		110			
	ase Sample Matrix the sample have more than one phase, i.e., multiphase	. 9	NT-			
	s, does the COC specify which phase(s) is to be analyz		No NA			
		.cu:	NA			
	ract Laboratory					
	samples required to get sent to a subcontract laboratory a subcontract laboratory specified by the client and if s		No NA	Subcontract Lab	: NA	
Client I	nstruction					
CHEIR I	iisti uttivii					
Siana	ture of client authorizing changes to the COC or sample dispo	osition			Date	envirotech Inc
oigila	ture of enem aumorizing changes to the COC of Sample dispo	/31UUII,			₽alÇ	CHAILOCCCH THE

Report to:
Georgeann Goodman



5796 U.S. Hwy 64 Farmington, NM 87401

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





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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

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 reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

Walter Hinchman

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Cell: 775-287-1762

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Raina Schwanz

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Rayny Hagan

Office: 505-421-LABS(5227)

West Texas Midland/Odessa Area

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	Reported:
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	07/25/23 17:40

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.

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

Conf 41 E307126-01

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Ana	alyst: 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	Ana	alyst: 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	Ana	alyst: 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	Ana	alyst: BA		Batch: 2330007



Kai	iser Francis Oil Company	Project Name:	NBL Pad #6	
122	24 Standpipe Rd	Project Number:	21022-0001	Reported:
Caı	Isbad NM, 88220	Project Manager:	Georgeann Goodman	7/25/2023 5:40:47PM

Conf 42 E307126-02

		E30/120-02				
	D 1	Reporting	D., .			N
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Aı	nalyst: 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	Aı	nalyst: 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	Aı	nalyst: 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	Aı	nalyst: BA		Batch: 2330007
Chloride	3280	100	5	07/24/23	07/24/23	



Kai	iser Francis Oil Company	Project Name:	NBL Pad #6	
122	24 Standpipe Rd	Project Number:	21022-0001	Reported:
Caı	Isbad NM, 88220	Project Manager:	Georgeann Goodman	7/25/2023 5:40:47PM

Conf 43 E307126-03

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analy	st: 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	Analy	vst: 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	Analy	vst: 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	Analy	vst: BA		Batch: 2330007
Chloride	3920	200	10	07/24/23	07/24/23	



Kaiser Francis Oil CompanyProject Name:NBL Pad #61224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Georgeann Goodman7/25/20235:40:47PM

Conf 44 E307126-04

		Reporting				
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Aı	nalyst: 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	Aı	nalyst: 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	Aı	nalyst: 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	Aı	nalyst: BA		Batch: 2330007
Chloride	3990	200	10	07/24/23	07/24/23	



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

Conf 45 E307126-05

		Reporting				
Analyte	Result	Limit	Diluti	on Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	nalyst: 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	
p-Xylene	ND	0.0250	1	07/24/23	07/24/23	
o,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	A	nalyst: 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	A	nalyst: 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	A	nalyst: BA		Batch: 2330007
Chloride	3990	200	10	07/24/23	07/24/23	



Kai	iser Francis Oil Company	Project Name:	NBL Pad #6	
122	24 Standpipe Rd	Project Number:	21022-0001	Reported:
Caı	Isbad NM, 88220	Project Manager:	Georgeann Goodman	7/25/2023 5:40:47PM

Conf 46 E307126-06

Analyte	Result	Reporting Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		nalyst: IY		Batch: 2330004
Benzene	ND	0.0250	1	07/24/23	07/24/23	Batem 233000 .
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	A	nalyst: 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	A	nalyst: 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	A	nalyst: BA		Batch: 2330007
Chloride	4140	200	10	07/24/23	07/24/23	_



 Kaiser Francis Oil Company
 Project Name:
 NBL Pad #6

 1224 Standpipe Rd
 Project Number:
 21022-0001
 Reported:

 Carlsbad NM, 88220
 Project Manager:
 Georgeann Goodman
 7/25/2023
 5:40:47PM

Conf 47

E307126-07 Reporting Analyte Limit Dilution Analyzed Result Prepared Notes Analyst: IY Batch: 2330004 mg/kg mg/kg Volatile Organic Compounds by EPA 8260B 07/24/23 07/24/23 ND 0.0250 Benzene 07/24/23 07/24/23 Ethylbenzene ND 0.0250 1 ND 0.0250 1 07/24/23 07/24/23 Toluene 1 07/24/23 07/24/23 o-Xylene ND 0.0250 07/24/23 07/24/23 ND 0.0500 1 p,m-Xylene 07/24/23 1 07/24/23 Total Xylenes ND 0.0250 07/24/23 07/24/23 Surrogate: Bromofluorobenzene 96.2 % 70-130 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 ND 07/24/23 07/24/23 20.0 1 Gasoline Range Organics (C6-C10) Surrogate: Bromofluorobenzene 96.2 % 07/24/23 07/24/23 70-130 07/24/23 Surrogate: 1,2-Dichloroethane-d4 96.4 % 70-130 07/24/23 Surrogate: Toluene-d8 07/24/23 07/24/23 98.1 % 70-130 mg/kg Analyst: JL Batch: 2330011 mg/kg Nonhalogenated Organics by EPA 8015D - DRO/ORO 07/24/23 250 10 07/24/23 1200 Diesel Range Organics (C10-C28) 1070 500 10 07/24/23 07/24/23 Oil Range Organics (C28-C36) 75.2 % 07/24/2307/24/23 Surrogate: n-Nonane 50-200 Anions by EPA 300.0/9056A mg/kg mg/kg Analyst: BA Batch: 2330007

200

3730

10

07/24/23

07/24/23



Chloride

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

Conf 48 E307126-08

Analyte	Result	Reporting Limit		ıtion	Prepared	Analyzed	Notes
	mg/kg	mg/kg		Analyst		- I mary zea	Batch: 2330004
Volatile Organic Compounds by EPA 8260B Benzene	ND	0.0250	1	1	07/24/23	07/24/23	Batch: 2550004
Ethylbenzene	ND ND	0.0250		1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	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	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	1	0	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	966	500	1	0	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	1	0	07/24/23	07/24/23	



Kai	iser Francis Oil Company	Project Name:	NBL Pad #6	
122	24 Standpipe Rd	Project Number:	21022-0001	Reported:
Caı	Isbad NM, 88220	Project Manager:	Georgeann Goodman	7/25/2023 5:40:47PM

Conf 49

		E307126-09					
		Reporting					
Analyte	Result	Limit	Dilut	tion l	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	I	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	I	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	A	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	A	Analyst: BA			Batch: 2330007
Chloride	4410	200	10) (07/24/23	07/24/23	



Kai	iser Francis Oil Company	Project Name:	NBL Pad #6	
122	24 Standpipe Rd	Project Number:	21022-0001	Reported:
Caı	Isbad NM, 88220	Project Manager:	Georgeann Goodman	7/25/2023 5:40:47PM

Conf 50 E307126-10

	_	Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Anal	yst: 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	Anal	yst: 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	Anal	yst: 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	Anal	yst: BA		Batch: 2330007
Chloride	4870	400	20	07/24/23	07/24/23	



Kai	iser Francis Oil Company	Project Name:	NBL Pad #6	
122	24 Standpipe Rd	Project Number:	21022-0001	Reported:
Caı	Isbad NM, 88220	Project Manager:	Georgeann Goodman	7/25/2023 5:40:47PM

Conf 51 E307126-11

	_	Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	An	alyst: 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	An	alyst: 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	An	alyst: 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	An	alyst: BA		Batch: 2330007
Chloride	2770	200	10	07/24/23	07/24/23	



Kai	iser Francis Oil Company	Project Name:	NBL Pad #6	
122	24 Standpipe Rd	Project Number:	21022-0001	Reported:
Caı	Isbad NM, 88220	Project Manager:	Georgeann Goodman	7/25/2023 5:40:47PM

Conf 52 E307126-12

Analyte	Result	Reporting Limit	Dilutior	n Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		alyst: IY		Batch: 2330004
Benzene	ND	0.0250	1	07/24/23	07/24/23	Batem 255 000 .
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	Ana	alyst: 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	Ana	alyst: 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	Ana	alyst: BA		Batch: 2330007
Chloride	4690	400	20	07/24/23	07/24/23	



o-Xylene

p,m-Xylene

Total Xylenes

Surrogate: Bromofluorobenzene

Surrogate: Toluene-d8

Surrogate: 1,2-Dichloroethane-d4

Matrix Spike Dup (2330004-MSD1)

QC Summary Data NBL Pad #6 Kaiser Francis Oil Company Project Name: 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 Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2330004-BLK1) Prepared: 07/24/23 Analyzed: 07/24/23 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 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 0.500 102 70-130 Surrogate: Toluene-d8 0.510 LCS (2330004-BS1) Prepared: 07/24/23 Analyzed: 07/24/23 2.38 0.0250 2.50 95.1 70-130 Benzene 2.41 2.50 70-130 96.3 Ethylbenzene 0.0250 2.39 0.0250 2.50 95.8 70-130 2.45 97.8 70-130 0.0250 2.50 o-Xylene 97.0 4.85 5.00 70-130 p,m-Xylene 0.0500 7.30 0.0250 7.50 97.3 70-130 Total Xylenes Surrogate: Bromofluorobenzene 0.517 0.500 103 70-130 0.500 95.3 70-130 Surrogate: 1,2-Dichloroethane-d4 0.477 Surrogate: Toluene-d8 0.500 70-130 0.508 Matrix Spike (2330004-MS1) Source: E307126-02 Prepared: 07/24/23 Analyzed: 07/24/23 48-131 2.62 0.0250 2.50 ND 105 ND 45-135 Ethylbenzene 2.58 0.0250 2.50 103 ND 102 48-130 Toluene 2.54 0.0250 2.50

1 1 1								•	
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			

2.50

5.00

7.50

0.500

0.500

0.500

ND

ND

ND

104

104

104

103

98.6

102

Source: E307126-02

43-135

43-135

43-135

70-130

70-130

70-130

2.60

5.18

7.78

0.516

0.493

0.510

0.0250

0.0500

0.0250

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

QC Summary Data

Kaiser Francis Oil CompanyProject Name:NBL Pad #6Reported:1224 Standpipe RdProject Number:21022-0001Carlsbad NM, 88220Project Manager:Georgeann Goodman7/25/20235:40:47PM

Nonhalogenated Organics b	y EPA 8015D - GRO
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Ana	IVSL:	- 1

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

	Result	2111110	Ec vei	1000011	ICCC	Limito	10.2		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2330004-BLK1)							Prepared: 0'	7/24/23 A	nalyzed: 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: 0'	7/24/23 A	nalyzed: 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:	E307126-0	02	Prepared: 0'	7/24/23 A	nalyzed: 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:	E307126-0	02	Prepared: 0'	7/24/23 A	nalyzed: 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 CompanyProject Name:NBL Pad #6Reported:1224 Standpipe RdProject Number:21022-0001Carlsbad NM, 88220Project Manager:Georgeann Goodman7/25/20235:40:47PM

	Project Manage	r: Ge	orgeann Goo	dman				7/25/2023 5:40:47PN
Nonhal	logenated Or	ganics by l	EPA 8015I) - DRO	/ORO			Analyst: JL
Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
						Prepared: 0	7/24/23 A	nalyzed: 07/24/23
ND	25.0							
ND	50.0							
42.1		50.0		84.3	50-200			
						Prepared: 0	7/24/23 A	nalyzed: 07/24/23
211	25.0	250		84.4	38-132			
36.5		50.0		73.0	50-200			
			Source:	E307126-	12	Prepared: 0	7/24/23 A	nalyzed: 07/24/23
1280	250	250	1130	58.6	38-132			
33.8		50.0		67.5	50-200			
			Source:	E307126-	12	Prepared: 0	7/24/23 A	nalyzed: 07/24/23
1430	250	250	1130	119	38-132	11.1	20	
35.8		50.0		71.6	50-200			
	Result mg/kg ND ND 42.1 211 36.5 1280 33.8	Nonhalogenated Or Reporting Limit mg/kg Limit mg/kg ND 25.0 ND 50.0 42.1 211 25.0 36.5 1280 250 33.8 1430 250	Nonhalogenated Organics by	Nonhalogenated Organics by EPA 8015 Result	Nonhalogenated Organics by EPA 8015D - DRO Result	Nonhalogenated Organics by EPA 8015D - DRO/ORO Result Limit Level Result Rec Limits mg/kg mg/kg mg/kg mg/kg mg/kg % % % % % % % % %	Nonhalogenated Organics by EPA 8015D - DRO/ORO Result Reporting Limit Level Result Rec Limits RPD mg/kg mg/kg mg/kg mg/kg % % % % % % % % %	Nonhalogenated Organics by EPA 8015D - DRO/ORO Result Reporting Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % % % % % % % % % % % % % % %



Matrix Spike Dup (2330007-MSD1)

Chloride

2810

QC Summary Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220		Project Name: Project Number Project Manage	: 2	IBL Pad #6 1022-0001 Georgeann Goo	ndman			7	Reported: //25/2023 5:40:47PM
Carisoad 1441, 00220				300.0/9056A				,	Analyst: BA
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limit %	Notes
Blank (2330007-BLK1)							Prepared: 0	7/24/23 An	alyzed: 07/24/23
Chloride	ND	20.0							
LCS (2330007-BS1)							Prepared: 0	7/24/23 An	alyzed: 07/24/23
Chloride	266	20.0	250		106	90-110			
Matrix Spike (2330007-MS1)				Source:	E307126-	01	Prepared: 0	7/24/23 An	alyzed: 07/24/23
Chloride	2980	100	250	2460	208	80-120			M4

250

100

Source: E307126-01

139

80-120

6.02

2460

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.



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

20

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.



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ogram SDWA	ived by O
RCRA	CD: 8/1
TX	Received by OCD: 8/1/2023 12:06:28 PM
	96:28 PM
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Client: Z	alser	- Fran	VIS	DIL CO			Bill To				La	b Us	e Onl	ly				TA	T		EPA Pr	ogram	
Project:	NBL	Pad #	160			Atte	ntion: 11085Com In	C_	Lab	WO#	ŧ		Job N	Vumb	per .	1D :	2D	3D	Sta	ndard	CWA	SDWA	Ö
Project N	lanager:	Rema	eanr) and		Addr	ntion: Wescom In ress: 1224 Stands	DIDE	E.3	5	121	0	210	33-	Sol	X							2
Address:	1224	Stare	dois	e Rd		City,	State, Zip 📈			_					d Method							RCRA	<u> </u>
City, Stat	e, Zip 🖰	alisba	ad Ro	1 883	20	Phor	ne: //										- 1						8/1
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Report d	ue by:	wesc	omi	nc.cor	n				30 b	30 b	802	by 8260	6010	300.0		ΣZ	×			X			12
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample II)			Lab Number	DRO/OF	GRO/DRO	втех ь,	VOC by	Metals	Chloride		верос	верос				Remarks		l by OCD: 8/1/2023 12:06:28 PM
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	seen		page	e on	C. 1	ha	that tampering with or intentionally misl	our.	<u>V</u>	O	الله	W.	Sample	es requir	ring thermal	preserva	ion m	ust be r	eceived	on ice the di	ay they are sam	pled or	
			-					goeining the sa	ample	iocatio	11,										bsequent days.		
Relinquish	A CONTRACTOR	ALL STREET	Date	d may be grou	Time		Received by: (Signature)	Date		Time						la.	hlls	e On	ilv				
Cinquising	201.00	- laturej	7	121/23	3:0		Michille Curreles		23		500)	Roce	hovie	on ice:		y N						
Relinquish	of by (Sig)	rature) /	Date	1-1-	Time	ANI	Received by: (Signature)	Date I		-		_	Nece	iveu	office.	(<i>y</i> ''						
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Sample Mat	iv S - Soil S	Sd - Solid Sa	Sludge A	Aqueous, O -	Other			Containe	r Tvn	e: g -	glass					ber gla	SS. V	- VO	A				
						nless ot	her arrangements are made. Hazaro													report for	the analysi	s of the	Pa
							atory with this COC. The liability of th																e
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Project Manager: Addr	Bill To on: LUESCOMINC s: // ate, Zip //		Li	ab Us	e On Job		M 11	D 20	3D	Standard	CWA	SDWA RCRA
City, State, Zip Carlsbad Nym 88220 Phone: 5757251311 Email: Of Orgeann Open Wand Report due by: Wescoming Com	V.	ORO by 8015	GRO/DRO by 8015 BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		N NW		NM CO	State UT AZ	ogram SDWA RCRA
Time Sampled Date Sampled Matrix No. of Containers Sample ID	Lab Number	DRO/ORO	GRO/I	VOC	Metal	Chlori		X BGDOC			Remarks	
0940 7/21 Soil 1 Conf 51	12)	X				
Additional Instructions:												
Additional instructions: AS SPEN ON DOOL ONE TO , (field sampler), attest to the validity and authenticity of this sample. I am aware tate or time of collection is considered fraud and may be grounds for legal action.	at tampering with or intentionally mislabelling the sar	mple loc	ation,							eceived on ice the d less than 6 °C on su		oled or
Relinquished by: (Signature) / Date Time	Date 7-21:2 Deived by: (Signature) Date 7-21:2 Date Date		ime 1500 ime)	Rec	eived on		Lab	Use On N	ly		
Mycellett Coursel T22-23 1830	Date Date	3	53(ime	2	T1	i Temp °(- J	2		<u>T3</u>	-	
iample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other Note: Samples are discarded 30 days after results are reported unless otl	Container			, p - p	oly/p	olastic, ag	- amber					



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

Envirotech Analytical Laboratory

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 Rece	ived: 07/24/2	3 05:30	Work Order ID: E307126
Phone: 575-725-1311 Date Logg	ged In: 07/24/2	3 06:26	Logged In By: Alexa Michaels
Email: georgeann.goodman@wesominc.com Due Date:	07/24/2	3 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 CO	C Yes		
3. Were samples dropped off by client or carrier?	Yes	Carrier: C	Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analys	es? Yes	- · · · · · · · · · · · · · · ·	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes		Comments/Resolution
Sample Turn Around Time (TAT)			
6. Did the COC indicate standard TAT, or Expedited TAT?	Yes		Project (NBL Pad #6) has been seperated
Sample Cooler			into 3 workorders due to high volume of
7. Was a sample cooler received?	Yes		samples. Workorders are as follows:
8. If yes, was cooler received in good condition?	Yes		E307124, E307125 and E307126
9. Was the sample(s) received intact, i.e., not broken?	Yes		E30/127, E30/123 and E30/120
10. Were custody/security seals present?	No		
11. If yes, were custody/security seals intact?	NA NA		
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received winnutes of sampling	Yes Yes		
13. If no visible ice, record the temperature. Actual sample temperature.	re: <u>4°C</u>		
Sample Container NOC 1	2.7		
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 collect	ed? Yes		
Field Label			
20. Were field sample labels filled out with the minimum information: Sample ID?	Yes		
Date/Time Collected?	Yes	l	
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 filteration 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		
	11/1		
Subcontract Laboratory	No		
	NA NA	Subcontract Lab	: NA
28. Are samples required to get sent to a subcontract laboratory? 29. Was a subcontract laboratory specified by the client and if so who?	INA		

Report to:

Georgeann Goodman



5796 U.S. Hwy 64 Farmington, NM 87401

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





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

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 reguarding 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

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Field Offices:

Southern New Mexico Area Lynn Jarboe

Technical Representative/Client Services

Office: 505-421-LABS(5227)

Cell: 505-320-4759

ljarboe@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

West Texas Midland/Odessa Area Rayny Hagan

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

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Sample Summary

Kaiser Francis Oil Company	Project Name:	NBL Pad #6	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
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.



Kaiser Francis Oil Company	Project Name:	NBL Pad #6	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	7/31/2023 3:25:11PM

Conf 4A E307173-01

	E50/1/5-01					
Damlt	Reporting	Dil	tion D	d	Amalagrad	Notes
Result	Limit	Dilu	tion Pi	repared	Analyzed	Notes
mg/kg	mg/kg	I	Analyst: IY			Batch: 2331001
ND	0.0250	1	. 0′	7/31/23	07/31/23	
ND	0.0250	1	. 0′	7/31/23	07/31/23	
ND	0.0250	1	. 0′	7/31/23	07/31/23	
ND	0.0250	1	0′	7/31/23	07/31/23	
ND	0.0500	1	0′	7/31/23	07/31/23	
ND	0.0250	1	07	7/31/23	07/31/23	
	102 %	70-130	0:	7/31/23	07/31/23	
	94.9 %	70-130	0	7/31/23	07/31/23	
	103 %	70-130	0:	7/31/23	07/31/23	
mg/kg	mg/kg	1	Analyst: IY			Batch: 2331001
ND	20.0	1	0′	7/31/23	07/31/23	
	102 %	70-130	0	7/31/23	07/31/23	
	94.9 %	70-130	0:	7/31/23	07/31/23	
	103 %	70-130	0:	7/31/23	07/31/23	
mg/kg	mg/kg	ı	Analyst: KM			Batch: 2331004
ND	25.0	1	. 0′	7/31/23	07/31/23	
ND	50.0	1	. 0	7/31/23	07/31/23	
	112 %	50-200	0:	7/31/23	07/31/23	
mg/kg	mg/kg	1	Analyst: BA			Batch: 2331006
632	20.0	1	0′	7/31/23	07/31/23	
	ND ND ND ND ND ND ND ND ND Mg/kg ND Mg/kg	Result Reporting mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0500 ND 0.0250 IO2 % 94.9 % 103 % mg/kg ND 20.0 IO2 % 94.9 % 103 % mg/kg Mg/kg mg/kg ND 25.0 ND 50.0 II2 % mg/kg mg/kg mg/kg	Reporting Result Limit Dilu mg/kg mg/kg ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 ND 0.0250 1 102 % 70-130 70-130 94.9 % 70-130 70-130 mg/kg mg/kg 102 % ND 20.0 1 103 % 70-130 1 mg/kg mg/kg 1 ND 25.0 1 ND 50.0 1 112 % 50-200 mg/kg mg/kg	Reporting Result Limit Dilution Property mg/kg mg/kg Analyst: IY ND 0.0250 1 0° ND 0.0250 1 0° ND 0.0250 1 0° ND 0.0500 1 0° ND 0.0250 1 0° ND 0.0250 1 0° 94.9 % 70-130 0° 94.9 % 70-130 0° 103 % 70-130 0° 94.9 % 70-130 0° 103 % 70-130 0° 103 % 70-130 0° 103 % 70-130 0° 103 % 70-130 0° 103 % 70-130 0° 103 % 70-130 0° 103 % 70-130 0° 103 % 70-130 0° 100 % 70-130 0° 100 % <	Reporting Limit Dilution Prepared mg/kg mg/kg Analyst: IY ND 0.0250 1 07/31/23 ND 0.0250 1 07/31/23 ND 0.0250 1 07/31/23 ND 0.0250 1 07/31/23 ND 0.0500 1 07/31/23 ND 0.0250 1 07/31/23 ND 0.0250 1 07/31/23 94.9 % 70-130 07/31/23 103 % 70-130 07/31/23 mg/kg mg/kg Analyst: IY ND 20.0 1 07/31/23 102 % 70-130 07/31/23 103 % 70-130 07/31/23 103 % 70-130 07/31/23 mg/kg mg/kg Analyst: KM ND 25.0 1 07/31/23 ND 50.0 1 07/31/23 mg/kg mg/kg Analyst: BA	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: IY ND 0.0250 1 07/31/23 07/31/23 ND 0.0500 1 07/31/23 07/31/23 ND 0.0250 1 07/31/23 07/31/23 ND 0.0250 1 07/31/23 07/31/23 94.9 % 70-130 07/31/23 07/31/23 94.9 % 70-130 07/31/23 07/31/23 mg/kg mg/kg Analyst: IY ND 20.0 1 07/31/23 07/31/23 94.9 % 70-130 07/31/23 07/31/23 94.9 % 70-130 07/31/23 07/31/23 103 % 70-130 07/31/23 07/31/23



Kaiser Francis Oil Company	Project Name:	NBL Pad #6	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	7/31/2023 3:25:11PM

Conf 6A E307173-02

Reporting								
Analyte	Result	Limit	Dilut	tion	Prepared	Analyzed	Notes	
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	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	1	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	1	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	1	Analyst:	BA		Batch: 2331006	
Chloride	20.0	20.0	1		07/31/23	07/31/23		



Kaiser Francis Oil CompanyProject Name:NBL Pad #61224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Georgeann Goodman7/31/20233:25:11PM

Conf 7A E307173-03

		Reporting				
Analyte	Result	Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	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	Α	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	Α	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	Α	Analyst: BA		Batch: 2331006
Chloride	34.1	20.0	1	07/31/23	07/31/23	

Kaiser Francis Oil Company	Project Name:	NBL Pad #6	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	7/31/2023 3:25:11PM

Conf 8A E307173-04

		Reporting					
Analyte	Result	Limit	Dilut	tion P	repared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	I	Analyst: IY			Batch: 2331001
Benzene	ND	0.0250	1	0	7/31/23	07/31/23	
Ethylbenzene	ND	0.0250	1	0	7/31/23	07/31/23	
Toluene	ND	0.0250	1	0	7/31/23	07/31/23	
o-Xylene	ND	0.0250	1	0	7/31/23	07/31/23	
p,m-Xylene	ND	0.0500	1	0	7/31/23	07/31/23	
Total Xylenes	ND	0.0250	1	0	7/31/23	07/31/23	
Surrogate: Bromofluorobenzene		98.2 %	70-130	0	7/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		97.4 %	70-130	0	7/31/23	07/31/23	
Surrogate: Toluene-d8		94.1 %	70-130	0	7/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: IY			Batch: 2331001
Gasoline Range Organics (C6-C10)	ND	20.0	1	. 0	7/31/23	07/31/23	
Surrogate: Bromofluorobenzene		98.2 %	70-130	0	7/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		97.4 %	70-130	0	7/31/23	07/31/23	
Surrogate: Toluene-d8		94.1 %	70-130	0	7/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: KM			Batch: 2331004
Diesel Range Organics (C10-C28)	ND	25.0	1	0	7/31/23	07/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	. 0	7/31/23	07/31/23	
Surrogate: n-Nonane		110 %	50-200	0	7/31/23	07/31/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: BA			Batch: 2331006
Chloride	23.9	20.0	1	-	7/31/23	07/31/23	

Kaiser Francis Oil Company	Project Name:	NBL Pad #6	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	7/31/2023 3:25:11PM

Conf 9A

		E307173-05					
		Reporting					
Analyte	Result	Limit	Dilı	ution	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	



Kaiser Francis Oil CompanyProject Name:NBL Pad #61224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Georgeann Goodman7/31/20233:25:11PM

Conf 10A E307173-06

		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2331001
Benzene	ND	0.0250	1	1	07/31/23	07/31/23	
Ethylbenzene	ND	0.0250	1	1	07/31/23	07/31/23	
Toluene	ND	0.0250	1	1	07/31/23	07/31/23	
o-Xylene	ND	0.0250	1	1	07/31/23	07/31/23	
p,m-Xylene	ND	0.0500	1	1	07/31/23	07/31/23	
Total Xylenes	ND	0.0250	1	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	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	1	07/31/23	07/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	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	



Kaiser Francis Oil CompanyProject Name:NBL Pad #61224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Georgeann Goodman7/31/20233:25:11PM

Conf 11A E307173-07

		Reporting				
Analyte	Result	Limit	Diluti	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	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	A	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	A	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	A	analyst: BA		Batch: 2331006
Chloride	26.2	20.0	1	07/31/23	07/31/23	



Kaiser Francis Oil CompanyProject Name:NBL Pad #61224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Georgeann Goodman7/31/20233:25:11PM

Conf 15A E307173-08

		Reporting					
Analyte	Result	Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	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	A	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	A	Analyst: KN	М		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	A	Analyst: BA	A		Batch: 2331006
Chloride	1650	20.0	1		07/31/23	07/31/23	



Kaiser Francis Oil CompanyProject Name:NBL Pad #61224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Georgeann Goodman7/31/20233:25:11PM

Conf 16A E307173-09

		Reporting				
Analyte	Result	Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	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	A	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	A	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	A	Analyst: BA		Batch: 2331006
Chloride	1430	20.0	1	07/31/23	07/31/23	



Kaiser Francis Oil CompanyProject Name:NBL Pad #61224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Georgeann Goodman7/31/20233:25:11PM

Conf 21A E307173-10

		100/1/0 10				
Analyte	Result	Reporting Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Aı	nalyst: 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	Aı	nalyst: 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	Aı	nalyst: 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	Aı	nalyst: BA		Batch: 2331006
Chloride	795	20.0	1	07/31/23	07/31/23	

Kaiser Francis Oil Company	Project Name:	NBL Pad #6	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	7/31/2023 3:25:11PM

Conf 24A E307173-11

		Reporting					
Analyte	Result	Limit	Dilu	ition	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2331001
Benzene	ND	0.0250	1	1	07/31/23	07/31/23	
Ethylbenzene	ND	0.0250	1	l	07/31/23	07/31/23	
Toluene	ND	0.0250	1	l	07/31/23	07/31/23	
o-Xylene	ND	0.0250	1	1	07/31/23	07/31/23	
p,m-Xylene	ND	0.0500	1	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	l	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	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	



Kaiser Francis Oil CompanyProject Name:NBL Pad #61224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Georgeann Goodman7/31/20233:25:11PM

Conf 26A E307173-12

Reporting								
Analyte	Result	Limit	Dil	ution	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		

 Kaiser Francis Oil Company
 Project Name:
 NBL Pad #6

 1224 Standpipe Rd
 Project Number:
 21022-0001
 Reported:

 Carlsbad NM, 88220
 Project Manager:
 Georgeann Goodman
 7/31/2023
 3:25:11PM

Conf 34A E307173-13

Analyte	Result	Reporting Limit	Diluti	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: IY		<u> </u>	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	Α	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	Α	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	Α	Analyst: BA			Batch: 2331006
Chloride	736	20.0	1	(07/31/23	07/31/23	

Kaiser Francis Oil CompanyProject Name:NBL Pad #61224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Georgeann Goodman7/31/2023 3:25:11PM

Conf 35A E307173-14

Reporting								
Analyte	Result	Limit	Dilu	ution	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	1	07/31/23	07/31/23		
p,m-Xylene	ND	0.0500	1	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		

 Kaiser Francis Oil Company
 Project Name:
 NBL Pad #6

 1224 Standpipe Rd
 Project Number:
 21022-0001
 Reported:

 Carlsbad NM, 88220
 Project Manager:
 Georgeann Goodman
 7/31/2023
 3:25:11PM

Conf 40A E307173-15

Reporting								
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes	
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: I	Y		Batch: 2331001	
Benzene	ND	0.0250	1	1	07/31/23	07/31/23		
Ethylbenzene	ND	0.0250	1	1	07/31/23	07/31/23		
Toluene	ND	0.0250	1	1	07/31/23	07/31/23		
o-Xylene	ND	0.0250	1	l	07/31/23	07/31/23		
p,m-Xylene	ND	0.0500	1	l	07/31/23	07/31/23		
Total Xylenes	ND	0.0250	1	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: I	Y		Batch: 2331001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	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: k	KM		Batch: 2331004	
Diesel Range Organics (C10-C28)	ND	25.0	1	1	07/31/23	07/31/23		
Oil Range Organics (C28-C36)	ND	50.0	1	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: E	ВА		Batch: 2331006	
Chloride	715	20.0	1	1	07/31/23	07/31/23		

Kaiser Francis Oil CompanyProject Name:NBL Pad #61224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Georgeann Goodman7/31/20233:25:11PM

Conf 41A E307173-16

		2007170 10					
Analyte	Result	Reporting Limit		ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	: IY	<u> </u>	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	



Kaiser Francis Oil CompanyProject Name:NBL Pad #61224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Georgeann Goodman7/31/20233:25:11PM

Conf 49A E307173-17

Domlt			tion	Duomonod	Analyzad	Notes
Resuit	Limit	Dilu	tion	Prepared	Analyzed	Notes
mg/kg	mg/kg	1	Analyst: I	Y		Batch: 2331001
ND	0.0250	1		07/31/23	07/31/23	
ND	0.0250	1		07/31/23	07/31/23	
ND	0.0250	1		07/31/23	07/31/23	
ND	0.0250	1		07/31/23	07/31/23	
ND	0.0500	1		07/31/23	07/31/23	
ND	0.0250	1		07/31/23	07/31/23	
	100 %	70-130		07/31/23	07/31/23	
	102 %	70-130		07/31/23	07/31/23	
	93.3 %	70-130		07/31/23	07/31/23	
mg/kg	mg/kg	1	Analyst: I	Y		Batch: 2331001
ND	20.0	1		07/31/23	07/31/23	
	100 %	70-130		07/31/23	07/31/23	
	102 %	70-130		07/31/23	07/31/23	
	93.3 %	70-130		07/31/23	07/31/23	
mg/kg	mg/kg	1	Analyst: I	ΚM		Batch: 2331004
ND	25.0	1		07/31/23	07/31/23	
ND	50.0	1		07/31/23	07/31/23	
	91.9 %	50-200	·	07/31/23	07/31/23	
mg/kg	mg/kg		Analyst: I	BA		Batch: 2331006
44.6	20.0	1		07/31/23	07/31/23	
	ND Mg/kg ND Mg/kg	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 IOO % 102 % 93.3 % mg/kg ND 20.0 100 % 102 % 93.3 % mg/kg MD 25.0 ND 50.0 91.9 % mg/kg mg/kg mg/kg	mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 100 % 70-130 102 % 70-130 93.3 % 70-130 mg/kg mg/kg ND 20.0 100 % 70-130 102 % 70-130 93.3 % 70-130 mg/kg mg/kg ND 25.0 ND 50.0 91.9 % 50-200 mg/kg mg/kg	Result Limit Dilution mg/kg mg/kg Analyst: I ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0500 1 ND 0.0250 1 ND 70-130 1 93.3 % 70-130 1 mg/kg mg/kg Analyst: I ND 20.0 1 100 % 70-130 1 93.3 % 70-130 1 mg/kg mg/kg Analyst: I ND 25.0 1 ND 50.0 1 91.9 % 50-200 mg/kg Analyst: I	Result Limit Dilution Prepared mg/kg mg/kg Analyst: IY ND 0.0250 1 07/31/23 ND 0.0250 1 07/31/23 ND 0.0250 1 07/31/23 ND 0.0250 1 07/31/23 ND 0.0500 1 07/31/23 ND 0.0250 1 07/31/23 ND 70-130 07/31/23 102 % 70-130 07/31/23 93.3 % 70-130 07/31/23 100 % 70-130 07/31/23 102 % 70-130 07/31/23 93.3 % 70-130 07/31/23 93.3 % 70-130 07/31/23 93.3 % 70-130 07/31/23 mg/kg mg/kg Analyst: KM ND 25.0 1 07/31/23 ND 50.0 1 07/31/23 Mg/kg Mg/kg Analyst: BA	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: IY ND 0.0250 1 07/31/23 07/31/23 ND 0.0500 1 07/31/23 07/31/23 ND 0.0250 1 07/31/23 07/31/23 ND 0.0250 1 07/31/23 07/31/23 100 % 70-130 07/31/23 07/31/23 93.3 % 70-130 07/31/23 07/31/23 mg/kg mg/kg Analyst: IY ND 20.0 1 07/31/23 07/31/23 100 % 70-130 07/31/23 07/31/23 102 % 70-130 07/31/23 07/31/23 93.3 % 70-130 07/31/23 07/31/23 mg/kg mg/kg<



Kaiser Francis Oil CompanyProject Name:NBL Pad #61224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Georgeann Goodman7/31/20233:25:11PM

Conf 50A E307173-18

		Reporting				
Analyte	Result	Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	А	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	А	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	А	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	А	Analyst: BA		Batch: 2331006
Chloride	34.3	20.0	1	07/31/23	07/31/23	

Definitions and Notes

ſ	Kaiser Francis Oil Company	Project Name:	NBL Pad #6	
l	1224 Standpipe Rd	Project Number:	21022-0001	Reported:
l	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.



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	NBL					ention: Wescom	-01	Lab	WO#	ŧ	_	Job I			1D	2D	3D	Stand	ard	CWA	SDWA
		Jusio	eann	Log	Add	dress: 1224 Standpy	e ko	E:	50	11 1		210			IX						
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City, Stat	e, Zip	>		— 7		ne: 5757251311												4		C1-1-	
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Time	Date	Matrix	No. of Containers	Sample ID			Lab	DRO/ORO by	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC	верос		^		Remarks	
Sampled	Sampled		Containers				Number	DR	GR	BT	9	ž	ჯ		BG	BG				0510151115	
1522	7/27	S	1	Conf L	AH		1								X						
536	7/27	S	1	Conf 1	OA		2								X						
1881	7/27	S	1	Conf -	1A		3								X						
1534	7/27	S	1	Conf 8	BA		4								X						
1539	7/27	S	1	conf c	a A		5								X						
1545	7/27	S	1	Conf 1			6								X						
1549	7/27	S	1	3.00	IIA		7								X						
1434	TECIT	S	1	Conf	15A		8								x						
1420	,	5	1	COFF	ILOPA		9								X						
		5	1			eurgeann, goodm	10								X						
Addition	al Instruc	tions:	rease	Send	to a	eurgeann, goodn	and	سا	5 C	on	MI	nc.	CO	m				7.71			
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						re that tampering with or intentionally misl	belling the sa	imple l	locatio	n,				iring therma ed in ice at a							
Relinguishe			ed fraud and Date	I may be grounds for	C. C		Date		Time	7	_						se Onl	Grant Car			
CA	2		1 2000		345PM	Received by: (Signarare)	7-28-	23	10000000	140	D	Rece	eivec	on ice:		0/1		У			
Relinquish	de (Sign		Date	Time		Received by: (Signature)	7.28	.23	Time	7	30	T1			T2			<u>T3</u>			
Relinguishe	ed by: (Sign	ature)	Date 7		400	Received by (signature)	7/3//	12	7	15	-	AVG	Ten	np °C_	4						
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						other arrangements are made. Hazard					_								ort for t	he analys	is of the
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Client: K	aser	Mar	VUS D	1100		Bill To				La	ab Us	se On	ly				TAT		EPA P	rogram
Project:					Att	Attention: 10050000.			Lab WO# E 307/13			Job Number			1D		3D :	Standard	CWA	SDWA
Project M	lanager:	Store	zean	ng	Ad	dress: 1224 Standpi y, State, Zip (425) Qua	pe	EE	307	173	5		22-(X	120				
Address:		U	U	0	Cit	y, State, Zip Curis bala	MI					Analy	sis and	Metho	d					RCRA
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Report du	ie hv:							by 8	by 8	3021	260	010	300.0		ΣN	×		×	UI AZ	TX
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID			Lab Number	DRO/ORO by	GRO/DRO by	BTEX by 802	VOC by 8260	Metals 6010	Chloride 300.0		ВСБОС	верос			Remarks	
202	7/27	5	1	Conf	24 A		11								×					
1300	2/27	5	1		24 A		12								x					
1500	7/27	5	-1	Conf	34 A		13								Х					
1504	7/27	S	1	Conf	35 A		14								X					
1510	7/27	5	1	Conf			15								X					
1515	7/27	S	1	Conf			16								X					
1556	1	5	1	Conf			17								X		-			
1539	7/27	5	1	Conf	50 A		18								×					
Additional	ler) attest (to the validit	Doa.	Se As	D DO	cal one. Thunk are that tampering with or intentionally misla	You	ample	locatio	n		Sample	es requiring	thermal	preserv	ation mi	ust be rece	eived on ice the da	y they are sa	mpled or
date or time	of collection	n is consider	ed fraud a	Day be Roll	legal acti	on. Sampled by:		college.		SM.		receive	ed packed i	n ice at ar	avg ter	mp abov	e 0 but les	ss than 6 °C on sul	sequent days	6
Relinquishe	ed by: (Sigr	nature)	Date	45PM	ime	Received by: (Signature) Wille Sur L	Date 7-28-0	23	Time /C)4í)	Rece	eived o	n ice:		ab Us	e Only			
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Relinquishe		nature) V	7.	29.23	1400	Received by: (Separture)	7/3/	23	Time 7	19			Temp		+					
				Aqueous, O - C			Containe													
						other arrangements are made. Hazard										ent exp	ense.	The report for	the analys	is of the
above samp	pies is app	licable only	to those s	amples receiv	ed by the lab	oratory with this COC. The liability of the	e laboratory	is lim	ited to	the a	amou	nt paid	for on	tne repo	ort.					

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environment expense. The report for the analysis of the ort.

envirotech Inc.

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

Envirotech Analytical Laboratory

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:		17:00 (0 day TAT)	68	
Chain o	f Custody (COC)					
	the sample ID match the COC?		Yes			
	the number of samples per sampling site location ma	tch the COC	Yes			
	samples dropped off by client or carrier?		Yes	Carrier: Courier		
	ne COC complete, i.e., signatures, dates/times, reques	sted analyses?	Yes			
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssi		Yes		Comment	ts/Resolution
Sample '	<u> Turn Around Time (TAT)</u>					
6. Did th	e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample	<u>Cooler</u>					
7. Was a	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes			
9. Was th	ne sample(s) received intact, i.e., not broken?		Yes			
10. Were	custody/security seals present?		No			
	s, were custody/security seals intact?		NA			
12. Was t	he sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples ar minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes			
Sample	<u>Container</u>					
	aqueous VOC samples present?		No			
15. Are	VOC samples collected in VOA Vials?		NA			
16. Is the	e head space less than 6-8 mm (pea sized or less)?		NA			
17. Was	a trip blank (TB) included for VOC analyses?		NA			
	non-VOC samples collected in the correct containers	?	Yes			
	appropriate volume/weight or number of sample contain		Yes			
Field La	•					
	e field sample labels filled out with the minimum info	ormation:				
	Sample ID?		Yes			
	Date/Time Collected?		Yes			
	Collectors name?		Yes			
	<u>Preservation</u>					
	the COC or field labels indicate the samples were pr	reserved?	No			
	sample(s) correctly preserved?		NA			
24. Is lat	o filteration required and/or requested for dissolved n	netals?	No			
	ase Sample Matrix					
	the sample have more than one phase, i.e., multipha		No			
27. If ye	s, does the COC specify which phase(s) is to be analy	yzed?	NA			
Subcont	ract Laboratory					
	samples required to get sent to a subcontract laborato	ry?	No			
	a subcontract laboratory specified by the client and it	-	NA	Subcontract Lab: na		
Client I	nstruction					
<u>Chene i</u>	nstruction .					

Date

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

ATTACHMENT F

48-Hour Confirmation Notification Emails

From: Enviro, OCD, EMNRD

To: Georgeann Goodman

Cc: <u>Bratcher, Michael, EMNRD</u>; <u>Velez, Nelson, EMNRD</u>

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

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



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: <u>Bratcher, Michael, EMNRD</u>; <u>Velez, Nelson, EMNRD</u>

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

Date: Tuesday, July 25, 2023 11:18:01 AM

Attachments: <u>image002.png</u>

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 < <u>Georgeann.Goodman@WescomInc.com</u>>

Sent: Wednesday, July 19, 2023 3:35 PM

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

Cc: Bratcher, Michael, EMNRD <<u>mike.bratcher@emnrd.nm.gov</u>>; Velez, Nelson, EMNRD <<u>Nelson.Velez@emnrd.nm.gov</u>>; Shar Harvester <<u>Shar.Harvester@WescomInc.com</u>>; Joey

Croce < <u>Joey.Croce@WescomInc.com</u>>; Shane Stolp < <u>shane.stolp@wescominc.com</u>>

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 < <u>Georgeann.Goodman@WescomInc.com</u>>

Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Velez, Nelson, EMNRD

<<u>Nelson.Velez@emnrd.nm.gov</u>>

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.

JΗ

Jocelyn Harimon • Environmental Specialist

Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | <u>Jocelyn.Harimon@emnrd.nm.gov</u>

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 < <u>Jerrod.Inskeep@wescominc.com</u>>

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 17^{th} 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

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

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

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

CONDITIONS

Action 246664

CONDITIONS

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

CONDITIONS

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