

CLOSURE REPORT

Created for submission to New Mexico Oil Conservation Division on 08/15/2023

SHARLENE HARVESTER
Senior Environmental Scientist

ENERGIZING AMERICA

August 15, 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: CLOSURE REQUEST

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 Closure Report 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 excavate impacted soils and on July 21, 2023, July 27, 2023 and August 7, 2023, to conduct additional excavation and collect 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 Crite	ria (19.15.	29.12.B(4) and Tab	ole 1 NMA	(C)				
North Bell Lake Pad #6 — 32.33512, -103.51409								
Depth to Groundwater		Cl	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 watering purposes?	No							
< 1000 feet from fresh water well or spring?	No							
Human and Other Areas								
< 300 feet from an occupied permanent residence, school, hospital, institution or church?	No							
Within incorporated municipal boundaries or within a defined municipal fresh water well field?	No							
< 100 feet from wetland?	No							
Within area overlying a subsurface mine?	No							
Within an unstable area?	No							
Within a 100-year floodplan?	No							

Table: Closure Criteria Statistics

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. An additional 29 confirmation sample areas were excavated and sampled August 7th, 2023. A backhoe was used to remove approximately 90 yards of contaminated soil from the spill area.

All soil samples were properly packaged, preserved, and transported to Envirotech 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 2 and laboratory analytical reports are included in Attachment E.

The required 48-hour confirmation sampling notification was sent on July 19, 2023, July 25, 2023, and August 1, 2023 to OCD.Enviro@emnrd.nm.gov and are included in Attachment F.

REQUEST FOR CLOSURE

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

- The spill area has been horizontally and vertically delineated.
- All confirmation area samples are below applicable RRALs for the Site.
- 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

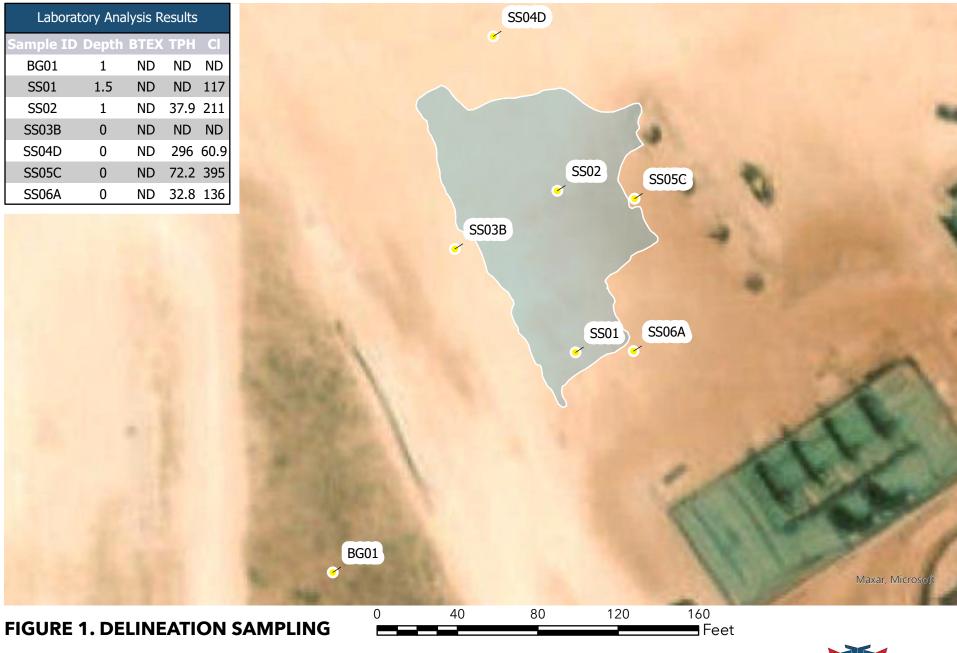
ATTACHMENT C. Closure Criteria Supporting Documents

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 10:11:08 AM

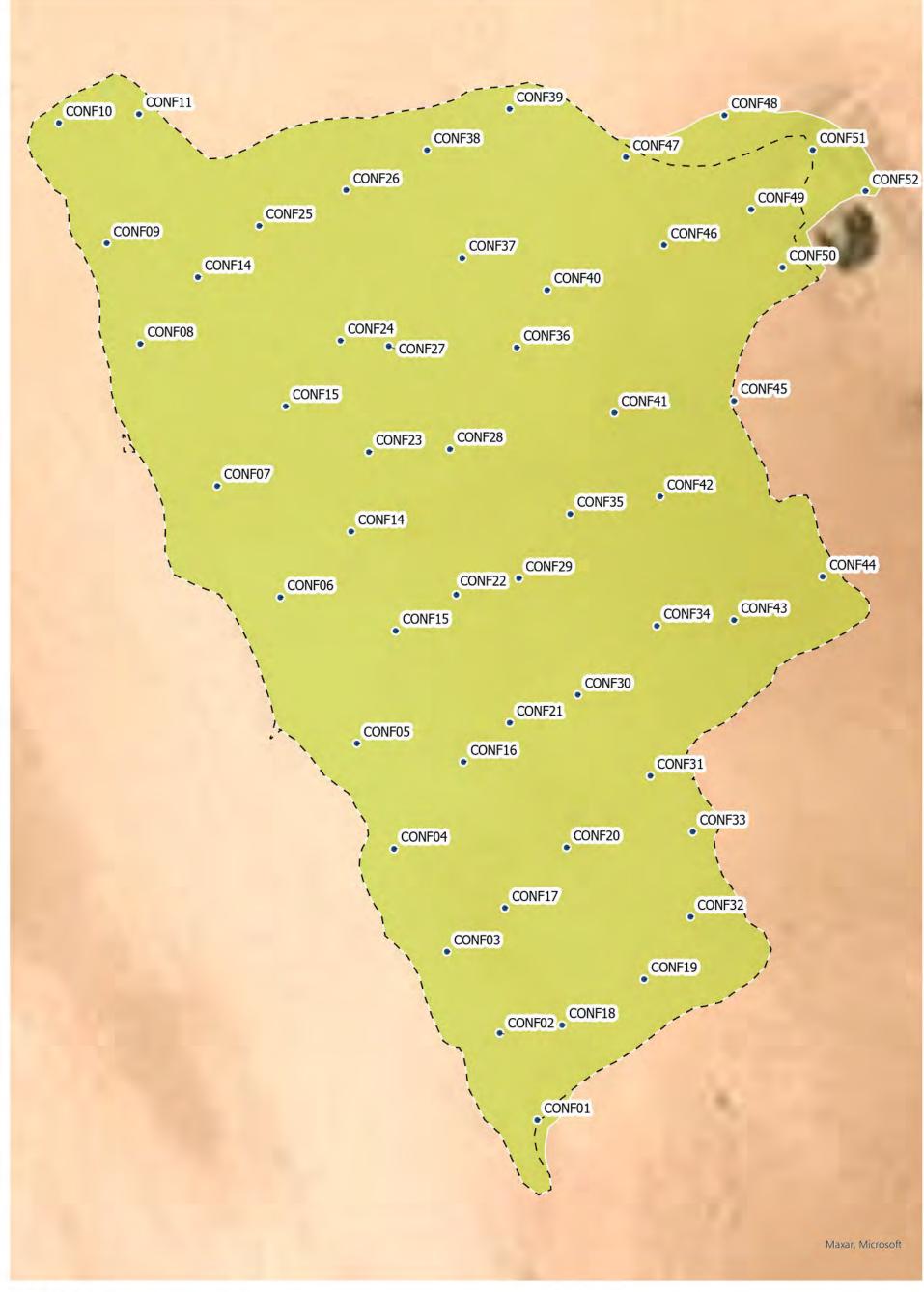


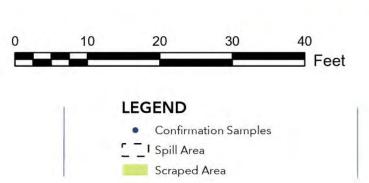
FIGURE 2. CONFIRMATION SAMPLING

North Bell Lake Pad #6 Incident ID: nAPP2234143414

API: 30-025-47770

GPS Coordinates: 32.33512, -103.51409

Lea County, New Mexico Kaiser-Francis Oil Company





TABLES

North Bell Lake Pad #6 nAPP2234143414										
	Kaiser-Francis Oil Company 07/28/2023									
Т	Table 1. Laboratory Analysis Results: Delineation Samples									
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			

BTEX — Benzene, Toluene, Ethylene, Xylene GRO — Gasoline Range Organics

DRO — Diesel Range Organics ND — Non-detect

ft. — Feet mg/kg — Milligrams per Kilogram

TPH — Total Petroleum Hydrocarbons

Notes

Bold Red - Results are above closure criteria

Gray Highlight - Background Samples

Released to Imaging: 11/20/2023 10:11:08 AM

	North	Bell Lake	Pad #6	nAF	PP2234143	3414			
	Ka	iser-Francis	Oil Com	pany	08/07/2023	3			
Ta	Table 2. Laboratory Analysis Results: Confirmation Samples								
Sam	ple Descrip	tion	F	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		
CONF1A	0.5	8/7/2023	ND	ND	ND	ND	55		
CONF02	0	7/21/2023	ND	ND	2419	1450	2090		
CONF2A	0.5	8/7/2023	ND	ND	ND	39.6	197		
CONF03	0	7/21/2023	ND	ND	2590	1540	1110		
CONF3A	0.5	8/7/2023	ND	ND	ND	ND	99.9		
CONF04	0	7/21/2023	ND	ND	1859	1010	3020		
CONF4A	0.5	7/27/2023	ND	ND	ND	ND	632		
CONF05	0	7/21/2023	ND	ND	1694	1090	2660		
CONF5A	0.5	8/7/2023	ND	ND	ND	ND	85.5		
CONF06	0	7/21/2023	ND	ND	2860	1660	2050		
CONF6A	0.5	7/27/2023	ND	ND	ND	ND	20		
CONF07	0	7/21/2023	ND	ND	996	511	1930		
CONF7A	0.5	7/27/2023	ND	ND	ND	ND	34.1		
CONF08	0	7/21/2023	ND	ND	2042	1130	2750		
CONF8A	0.5	7/27/2023	ND	ND	ND	ND	23.9		
CONF09	0	7/21/2023	ND	ND	2060	1170	2690		
CONF9A	0.5	7/27/2023	ND	ND	ND	ND	46.9		
CONF10	0	7/21/2023	ND	ND	1310	1310	2190		
CONF10A	0.5	7/27/2023	ND	ND	ND	ND	26.8		
CONF11	0	7/21/2023	ND	ND	4890	2980	3680		
CONF11A	0.5	7/27/2023	ND	ND	ND	ND	26.2		
CONF12	0	7/21/2023	ND	ND	2810	1390	1860		
CONF12A	0.5	8/7/2023	ND	ND	ND	ND	105		
CONF13	0	7/21/2023	ND	ND	3990	2440	1010		
CONF13A	0.5	8/7/2023	ND	ND	ND	ND	33		

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

Bold Black - Resampled confirmation area results



North Bell Lake Pad #6 nAPP2234143414										
	Kaiser-Francis Oil Company 08/07/2023									
Та	ble 2. Lab	oratory Ana	lysis Re	sults: C	onfirmatio	n Samples	3			
Sample Description Petroleum Hydrocarbons							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			
CONF14	0	7/21/2023	ND	ND	2557	1590	1650			
CONF14A	0.5	8/7/2023	ND	ND	ND	ND	213			
CONF15	0	7/21/2023	ND	ND	3010	1680	2780			
CONF15A	0.5	7/27/2023	ND	ND	89	89	1650			
CONF16	0	7/21/2023	ND	ND	5060	3310	1170			
CONF16A	0.5	7/27/2023	ND	ND	98.1	98.1	1430			
CONF17	0	7/21/2023	ND	ND	1250	1250	1250			
CONF17A	0.5	8/7/2023	ND	ND	ND	ND	64.1			
CONF18	0	7/21/2023	ND	ND	2880	1580	1770			
CONF18A	0.5	8/7/2023	ND	ND	ND	ND	279			
CONF19	0	7/21/2023	ND	ND	1915	1110	4280			
CONF19A	0.5	8/7/2023	ND	ND	ND	ND	165			
CONF20	0	7/21/2023	ND	ND	842	516	2070			
CONF21	0	7/21/2023	ND	ND	2980	1580	3750			
CONF21A	0.5	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			
CONF23A	0.5	8/7/20232	ND	ND	ND	ND	98.2			
CONF24	0	7/21/2023	ND	ND	2530	2530	3270			
CONF24A	0.5	7/27/2023	ND	ND	92.8	92.8	2370			
CONF25	0	7/21/2023	ND	ND	2223	1420	2140			
CONF25A	0.5	8/7/2023	ND	ND	ND	ND	50.5			
CONF26	0	7/21/2023	ND	ND	2760	1410	7330			
CONF26A	0.5	7/27/2023	ND	ND	139.6	66.8	3680			
CONF27	0	7/21/2023	ND	ND	2080	1040	2760			
CONF27A	0.5	8/7/2023	ND	ND	ND	ND	262			

BTEX — Benzene, Toluene, Ethylene, Xylene

 ${\sf GRO-Gasoline}\ {\sf Range}\ {\sf Organics}$

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



Energizing America

North Bell Lake Pad #6 nAPP2234143414										
	Kaiser-Francis Oil Company 08/07/2023									
Ta	Table 2. Laboratory Analysis Results: Confirmation Samples									
Sam	ple Descrip	tion	F	Petroleur	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)			
Cl	osure Criter	ia	10	50	2500	1000	20000			
CONF28	0	7/21/2023	ND	ND	2910	1370	3140			
CONF28A	0.5	8/7/2023	ND	ND	ND	ND	185			
CONF29	0	7/21/2023	ND	ND	4710	3000	3600			
CONF29A	0.5	8/7/2023	ND	ND	ND	ND	235			
CONF30	0	7/21/2023	ND	ND	1000	1000	1720			
CONF30A	0.5	8/7/2023	ND	ND	ND	ND	331			
CONF31	0	7/21/2023	ND	ND	2079	1420	1540			
CONF31A	0.5	8/7/2023	ND	ND	ND	ND	139			
CONF32	0	7/21/2023	ND	ND	2850	1770	2210			
CONF32A	0.5	8/7/2023	ND	ND	ND	ND	47.2			
CONF33	0	7/21/2023	ND	ND	2156	1280	1870			
CONF33A	0.5	8/7/2023	ND	ND	ND	ND	86.4			
CONF34	0	7/21/2023	ND	ND	5070	3130	4010			
CONF34A	0.5	7/27/2023	ND	ND	ND	ND	736			
CONF35	0	7/21/2023	ND	ND	5620	3240	4120			
CONF35A	0.5	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			
CONF37A	0.5	8/7/2023	ND	ND	ND	ND	133			
CONF38	0	7/21/2023	ND	ND	2003	1260	7960			
CONF38A	0.5	8/7/2023	ND	ND	ND	ND	180			
CONF39	0	7/21/2023	ND	ND	2104	1300	8290			
CONF39A	0.5	8/7/2023	ND	ND	ND	ND	90.2			
CONF40	0	7/21/2023	ND	ND	3960	2660	1890			
CONF40A	0.5	7/27/2023	ND	ND	ND	ND	715			

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



North Bell Lake Pad #6 nAPP2234143414										
	Ka	iser-Francis	Oil Com	pany	08/07/2023	3				
Ta	Table 2. Laboratory Analysis Results: Confirmation Samples									
Sam	nple Description Petroleum Hydrocarbons						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			
CONF41	0	7/21/2023	ND	ND	3240	1840	2460			
CONF41A	0.5	7/27/2023	ND	ND	ND	ND	680			
CONF42	0	7/21/2023	ND	ND	2370	1210	3280			
CONF42A	0.5	8/7/2023	ND	ND	ND	39.4	109			
CONF43	0	7/21/2023	ND	ND	1170	1170	3920			
CONF43A	0.5	8/7/2023	ND	ND	ND	ND	154			
CONF44	0	7/21/2023	ND	ND	2035	1040	3990			
CONF44A	0.5	8/7/2023	ND	ND	ND	ND	113			
CONF45	0	7/21/2023	ND	ND	944	944	3990			
CONF45A	0.5	8/7/2023	ND	ND	ND	ND	115			
CONF46	0	7/21/2023	ND	ND	2360	1350	4140			
CONF46A	0.5	8/7/2023	ND	ND	ND	ND	170			
CONF47	0	7/21/2023	ND	ND	2270	1200	3730			
CONF47A	0.5	8/7/2023	ND	ND	ND	ND	188			
CONF48	0	7/21/2023	ND	ND	2016	1050	6980			
CONF48A	0.5	8/7/2023	ND	ND	ND	ND	272			
CONF49	0	7/21/2023	ND	ND	4990	2330	4410			
CONF49A	0.5	7/27/2023	ND	ND	ND	ND	44.6			
CONF50	0	7/21/2023	ND	ND	3430	2110	4870			
CONF50A	0.5	7/27/2023	ND	ND	ND	ND	34.3			
CONF51	0	7/21/2023	ND	ND	2397	1610	2770			
CONF51A	0.5	8/7/2023	ND	ND	ND	ND	210			
CONF52	0	7/21/2023	ND	ND	1715	1130	4690			
CONF52A	0.5	8/7/2023	ND	ND	ND	ND	112			
ABBREVIATIO	NS									

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

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, Azicc, 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	
Facility ID	
Application ID	

Release Notification

Responsible Party

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

Location of Release Source

Latitude 32.33512

Longitude -103.51409

(NAD 83 in decimal degrees to 5 decimal places)

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

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

Surface Owner;	☐ State		Tribal	🔲 Private
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Nature and Volume of Release

lume Released (bbls) 20	Volume Recovered (bbls) 0	
7		
the concentration of dissolved chloride in the oduced water >10,000 mg/l?	☑ Yes ☐ No	
lume Released (bbls)	Volume Recovered (bbls)	
lume Released (Mcf)	Volume Recovered (Mcf)	
lume/Weight Released (provide units)	Volume/Weight Recovered (provide units)	
entless flowback operations resulted in release a	nd flash fire.	1
	lume Released (bbls) lume Released (Mcf) lume/Weight Released (provide units)	lume Released (bbls) Volume Recovered (bbls) Volume Recovered (Mcf) Volume Recovered (Mcf)

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? ☑ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? A flash fire resulted from the tank over-pressure.									
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes. Aaron Daniels. NMOCD Portal via NOR on 12/07/22.										
	Initial Response									
The responsible	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury									
The source of the rele	ease has been stopped.									
	as been secured to protect human health and the environment.									
	ave been contained via the use of berms or dikes, absorbent pads, or other containment devices.									
	ecoverable materials have been removed and managed appropriately.									
If all the actions describe	ed above have <u>not</u> been undertaken, explain why:									
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 and 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 crequired 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: Matton A Signature:	ndrew Title; EHS Lead Date: 17-70-77									
email: huttona@kfoc.net	t Telephone: 918-491-4615									
OCD Only										
Received by:	Date;									

Form C-141 Page 3 State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?							
Did this release impact groundwater or surface water?							
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?							
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No						
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No						
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No						
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No						
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?							
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No						
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No						
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No						
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No						
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ⊠ No						
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil						
Characterization Report Checklist: Each of the following items must be included in the report.	THE STATE OF THE S						
 Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information 							
 ☒ Boring or excavation logs ☒ Photographs including date and GIS information ☒ Topographic/Aerial maps ☒ Laboratory data including chain of custody 							

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

Received by OCD: 8/18/2023 9:54:55 AM

Page 20 of 250

Form C-141

Page 4

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.							
Printed Name: Hutton Andrew	Title: EHS Lead						
Signature: Ha M	Date: <u>08/17/2023</u>						
huttona@kfoc.net	Telephone: 918-491-4615						
OCD Only							
Received by:	Date:						

Form C-141 Page 6 State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

Closure Report Attachm	ent Checklist: Each of the following	ng items must be inclu	ided in the closure report.				
A scaled site and sampling diagram as described in 19.15.29.11 NMAC							
Photographs of the re must be notified 2 days pr		otos of the liner integri	ity if applicable (Note: appropriate OCD District office				
☐ Laboratory analyses o	f final sampling (Note: appropriate G	ODC District office m	ust be notified 2 days prior to final sampling)				
Description of remedi	ation activities						
and regulations all operator may endanger public health should their operations hav human health or the environ compliance with any other restore, reclaim, and re-veg	s are required to report and/or file ce to or the environment. The acceptance e failed to adequately investigate and nament. In addition, OCD acceptance federal, state, or local laws and/or re- tetate the impacted surface area to the 3 NMAC including notification to the	ertain release notificati e of a C-141 report by d remediate contamina e of a C-141 report doc gulations. The respon e conditions that existe	<u>23</u>				
OCD Only							
Received by:		Date:					
remediate contamination th	CD does not relieve the responsible p at poses a threat to groundwater, surf ny other federal, state, or local laws	face water, human heal	their operations have failed to adequately investigate and th, or the environment nor does not relieve the responsible				
Closure Approved by:	Nelson Velez	Date: _	11/20/2023				
Printed Name:	Nelson Velez	Title:	Environmental Specialist – Adv				

Remediation has met 19.15.29 NMAC requirements. Soil impacts exceeding the reclamation standards have been left in place and are required to meet 19.15.29.13D (1) NMAC once the site is no longer reasonably needed for production or subsequent drilling operations.

ATTACHMENT B

Site Photos



Original Spill Area



Original Spill Area



Scraped Spill Area



Scraped Spill Area



Scraped Spill Area



Scraped Spill Area



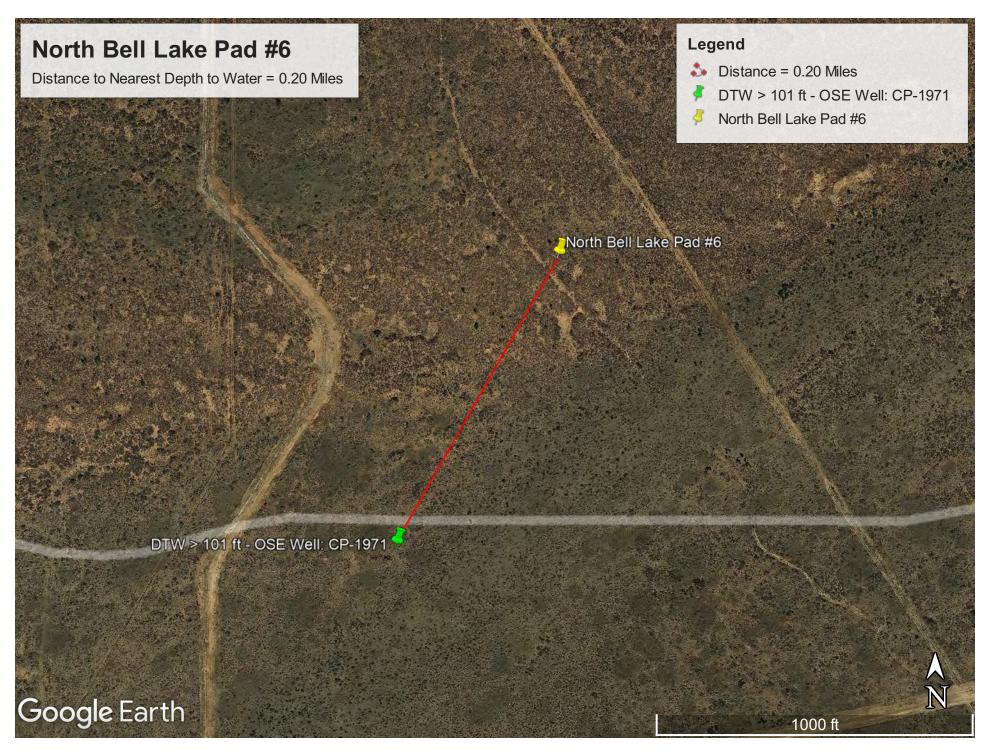
Scraped Spill Area



Scraped Spill Area

ATTACHMENT C

Closure Criteria Supporting Documents





2904 W 2nd St. Roswell, NM 88201 voice: 575.624.2420 fax: 575.624.2421 www.atkinseng.com

July 11, 2023

DII-NMOSE 1900 W 2nd Street Roswell, NM 88201

Hand Delivered to the DII Office of the State Engineer

Re: Well Record CP-1971 Pod-1

To whom it may concern:

Attached please find a well log & record and a plugging record, in duplicate, for a one (1) soil borings, C-1971 Pod-1.

If you have any questions, please contact me at 575.499.9244 or lucas@atkinseng.com.

Sincerely,

Lucas Middleton

Enclosures: as noted above

Grown Modelin

OSE DII JUL 11 2023 PM1:10



	OSE POD NO. (WELL NO.) WELL TAG ID NO.						OSE FILE NO(S).						
NO	POD 1 (TW-1) N/A						CP-1971						
Ę	WELL OWNER NAME(S)						PHONE (OPTIONAL)						
70 0 0	Kaiser-Francis Oil Company						918.49	1.461	5				
7	WELL OWNER	MAILING	ADDRESS					CITY			STATE		ZIP
EL	6733 S. Yale Ave							Tulsa			OK	74136	
M O				an riva	MATTER	OF COMP.							
Z	WELL		DE	GREES 32	MINUTES 19	SECOND		+ + 000	D A CW	DECLUDED, ONE TENT	HOEA	RECOND	
AL.	LOCATION		TITUDE	<i>JL</i>	17	37.42	N	* ACCURACY REQUIRED: ONE TENTH OF A SECO				SECOND	
ER	(FROM GPS)	LOI	NGITUDE	103	30	56.47	W	* DATO	M REC	QUIRED: WGS 84			
EN	POD 1 (TW-1) WELL OWNER NAME(S) Kaiser-Francis Oil Company WELL OWNER MAILING ADDRESS 6733 S. Yale Ave WELL LOCATION (FROM GPS) LATITUDE LONGITUDE DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS									WNSHJIP, RANGE) WHE	RE AV	AILABLE	
1.0			R34E, NMPM										
												103 / B + 3 3 /	
	LICENSE NO.		NAME OF LICENSED		ckie D. Atkins	e				NAME OF WELL DRII		COMPANY Associates, Ir	ıc.
	1249												
	DRILLING STA		DRILLING ENDED		PLETED WELL (F			LE DEPTH	(FT)	DEPTH WATER FIRS	T ENCO n/a		
	6/20/2	23	6/20/23	Tempora	ry Well Mater	riai		±101	- 41		11/8		
				71 DRY HOLE	- CONTAIN	OW (UNCONI	enuen)			WATER LEVEL PLETED WELL N/		DATE STATIC N	
z	COMPLETED	WELL IS:	ARTESIAN	VI DRY HOLE	SHALL	OW (UNCONI	INED		T)	TAY.	^	6/26/	22
011	DRILLING FLU	JID:	AIR	MUD	MUD ADDITIVES – SPECIFY:								
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[A]	-												
IN		_						_			-		
3. ANNULAR MATERIAL			+										
ю.									-		-		
		_							-				
FOF	OSE INTERI	NAL USE	3							0 WELL RECORD &	& LOG	(Version 01/2	8/2022)
FIL	E NO.				PODN	Ю.			TRN 1	NO.			
LOC	CATION							WELL 7	TAG I	D NO.		PAGE	1 OF 2

LOCATION

	DEPTH (f	eet bgl)		COLOR AND	TYPE OF MATERIAL EN	ICOUN'	TERED -		WATER	ESTIMATED YIELD FOR
	FROM	то	THICKNESS (feet)	INCLUDE WATER	R-BEARING CAVITIES OR	FRAC	TURE ZONE	s	BEARING? (YES / NO)	WATER- BEARING ZONES (gpm)
	0 14 14 Sand, fine-grained, poorly graded, slight cemented, Reddi								Y ✓N	ZOIVEO (gpiii)
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								_	Y N	
									Y N	
,									Y N	
ELI									Y N	
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	PUM		IR LIFT	_	HER – SPECIFY:			WEI	LL YIELD (gpm):	0.00
Z.	WELL TES	T TEST STAR	RESULTS - ATT T TIME, END TI	ACH A COPY OF DATA ME, AND A TABLE SH	A COLLECTED DURING V OWING DISCHARGE AN	WELL T	ESTING, INC WDOWN OV	CLUDI ER TH	NG DISCHARGE M E TESTING PERIO	IETHOD, D.
VISION	MISCELLA	NEOUS IN	FORMATION: _T	omnoromi wall materia	l removed and soil boring	hackf	illed using di	rill cut	tings from total de	nth to ten feet
TEST; RIG SUPERV			be	elow ground surface(by	gs), then hydrated benton	ite chip	s ten feet bg	s to su	rface.	P
SU										
RIG							3	JSE () II JUL 11 202	3 PM1:11
EST;	PRINT NAM	AE(S) OF D	RILL RIG SUPE	RVISOR(S) THAT PROV	VIDED ONSITE SUPERVIS	SION O	F WELL CON	STRU	CTION OTHER TH	AN LICENSEE:
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FURE	CORRECT	RECORD C	F THE ABOVE I	DESCRIBED HOLE AN	EST OF HIS OR HER KNO D THAT HE OR SHE WILI PLETION OF WELL DRILI	L FILE	GE AND BEI THIS WELL	LIEF, T RECOI	HE FOREGOING IS RD WITH THE STA	S A TRUE AND TE ENGINEER
CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING: Jack Atkins								7/11/2023		
ف			TURE OF DRILL	ER / PRINT SIGNEE I	NAME		-		DATE	•
							11 D 00 1-1-		2000 6 1 00 TT	-1 01/29/2022
	R OSE INTER	NAL USE			POD NO.		TRN NO.	LL RE	CORD & LOG (Ver	sion 01/28/2022)
-	E NO. CATION				100110.	WEIT	TAG ID NO.			PAGE 2 OF 2
	CATION					AA TITIT	ING ID NO.			d



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

	ENERAL / WELL OWNERSHIP: Engineer Well Number: CP-1971 POD-1			
Siaic Well	owner: Kaiser-Francis Oil Company	Phone No.:	918.491.4615	
Maili	ing address: 6733 S. Yale Ave			
City:	Tulsa	State:	OK	Zip code: 74136
<u>II. V</u>	VELL PLUGGING INFORMATION:			
1)	Name of well drilling company that plug	ged well: Ja	ckie D. Atkins (Atkins Engine	ering Associates Inc.)
2)	New Mexico Well Driller License No.:	1249	F	expiration Date: 04/30/25
3)	Well plugging activities were supervised Shane Eldridge	by the follow	ving well driller(s)/rig supervi	isor(s):
4)	Date well plugging began: 6/26/23		Date well plugging conclu	ded: 6/26/23
5)	GPS Well Location: Latitude: Longitude:	32 103	deg, 19 min, 57 deg, 30 min, 56	7.42 sec 6.47 sec, WGS 84
6)	Depth of well confirmed at initiation of p by the following manner: water level pro	olugging as: _	101 ft below ground le	evel (bgl),
7)	Static water level measured at initiation	of plugging:	n/a ft bgl	
8)	Date well plugging plan of operations wa	as approved b	y the State Engineer: 6/6	/23
9)	Were all plugging activities consistent w differences between the approved pluggi	rith an approving plan and t	ed plugging plan?Yes he well as it was plugged (atta	
				OSE DII JUL 11 2023 PM1:11

Version: September 8, 2009

Page 1 of 2

Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging <u>Material Used</u> (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
-	0-10' Hydrated Bentonite	Approx. 15 gallons	15 gallons	Augers	
-	10'-101'	Anney 145 gallone	145 gallono	Boring	
-	Drill Cuttings	Approx. 145 gallons	145 gallons	Boiling	
=					
-					
-					
-					
-				OSE OIT	TJL 11 2023 pm1:11
_		MULTIPLY	BY AND OBTAIN		
		cubic feet x 7. cubic yards x 201	4805 = gallons		

III. SIGNATURE:

1,		say that I											
Éı	ngineer pertaining to the plugging of wells and that ea	ch and all o	of the	stateme	nts in	this	Plugg	ing I	Record	l and	atta	ichn	nents
ar	e true to the best of my knowledge and belief.												

Signature of Well Driller Date

Version: September 8, 2009

Page 2 of 2

2023-07-11-CP-1971-Log-packet-forsign

Final Audit Report 202

Created: 2023-07-11

By: Lucas Middleton (lucas@atkinseng.com)

Status: Signed

Transaction ID: CBJCHBCAABAAqtLhGEolmlZikJlzdnvlQBcvDjM7h7B7

"2023-07-11-CP-1971-Log-packet-forsign" History

- Document created by Lucas Middleton (lucas@atkinseng.com)
 2023-07-11 4:56:25 PM GMT- IP address: 24.52.18.211
- Document emailed to Jack Atkins (jack@atkinseng.com) for signature 2023-07-11 4:58:04 PM GMT
- Email viewed by Jack Atkins (jack@atkinseng.com) 2023-07-11 5:35:06 PM GMT- IP address: 64.90.153.232
- Document e-signed by Jack Atkins (jack@atkinseng.com)

 Signature Date: 2023-07-11 5:36:21 PM GMT Time Source: server- IP address: 64.90.153.232
- Agreement completed. 2023-07-11 - 5:36:21 PM GMT

OSE ON JUL 11 2023 PM1:11

Received by OCD: 8/18/2023 9:54:55 AM 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 | LILLIL Levee, Dike, or Floodwall 20.2 Cross Sections with 1% Annual Chance 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

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

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

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 Forested/Shrub Wetland

Freshwater Pond

Lake

Riverine

Other

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 Pond

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

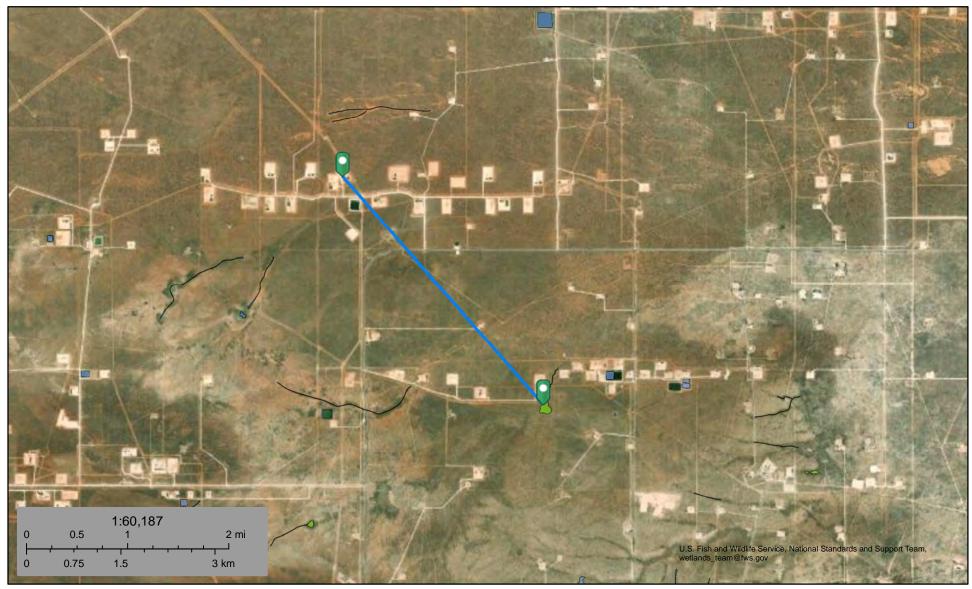
Lake

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.

North Bell Lake Pad #6 -Wetland 2.53 Miles



December 20, 2022

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

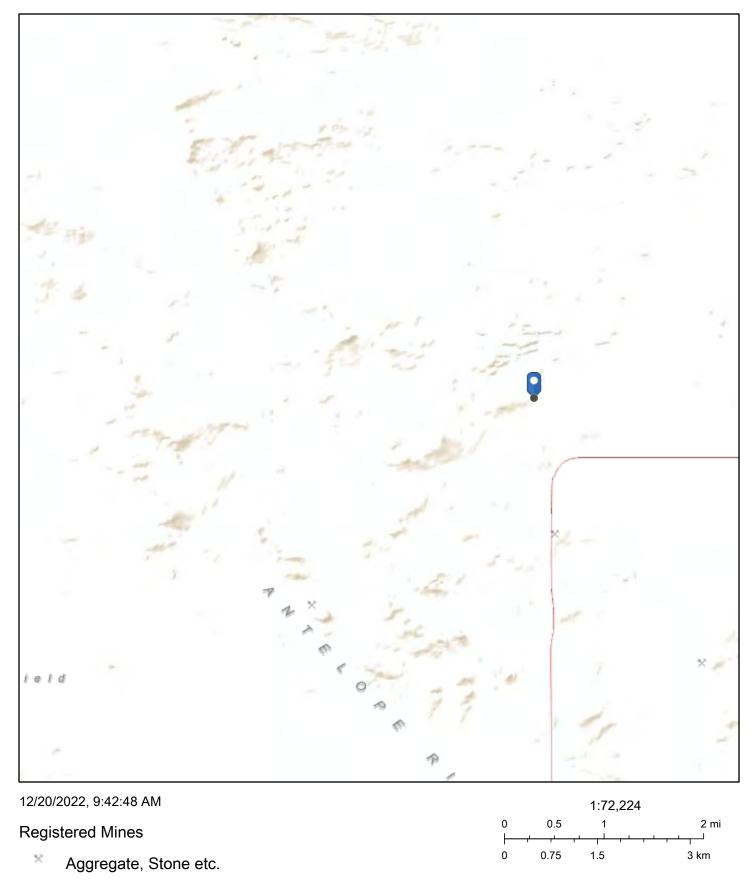
Lake

Riverine

Other

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

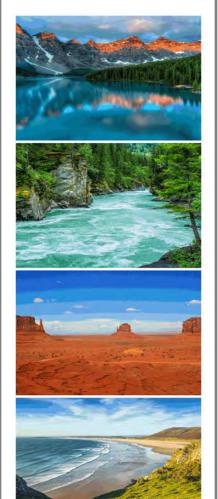
Karst Map



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

Laboratory Director Office: 505-632-1881

Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

Alexa Michaels

Sample Custody Officer Office: 505-632-1881

labadmin@envirotech-inc.com

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

Rayny Hagan Technical Representative

West Texas Midland/Odessa Area

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 12-7-2022 Spill	Reported:
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.



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	n Prepared	Analyzed	Notes
mg/kg	mg/kg	Ana	alyst: 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	Ana	ılyst: 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	Ana	ılyst: 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	ılyst: 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 0.0500 1 ND 0.0250 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 1 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 50.200 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 0.0250 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 0.0500 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 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 - 1' E302030-02

E302030-02						
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
				•	,	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: 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	Ana	lyst: 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	Ana	lyst: 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	Ana	lyst: BA		Batch: 2306032
Chloride	ND	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

SS01 - 1.5' E302030-03

		E302030-03				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: 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	
p-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	Ana	lyst: 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	Ana	lyst: 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	Ana	lyst: 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'

E30	17	0.24	n i	n 4
F71	IZ	11.71		114

		Reporting				
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	02/07/23	
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	Anal	yst: 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	Anal	yst: 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	Anal	yst: BA		Batch: 2306032
	211	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

SS03B - 0' E302030-05

Analyte	Result	Reporting 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		101 %	70-130	02/07/23	02/08/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	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		92.9 %	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)	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		104 %	50-200	02/08/23	02/08/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: BA		Batch: 2306032
Chloride	ND	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

SS04D - 0' E302030-06

		E302030-06				
		Reporting	- ·			
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	Analyst: SL		Batch: 2306019
Benzene	ND	0.0250	1	02/07/23	02/08/23	
Ethylbenzene	ND	0.0250	1	02/07/23	02/08/23	
Toluene	ND	0.0250	1	02/07/23	02/08/23	
o-Xylene	ND	0.0250	1	02/07/23	02/08/23	
p,m-Xylene	ND	0.0500	1	02/07/23	02/08/23	
Total Xylenes	ND	0.0250	1	02/07/23	02/08/23	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	02/07/23	02/08/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2306019
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/07/23	02/08/23	
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

		E302030-07				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
. Ilmi, ve	resur			•	1 11111 / 201	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: 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	Ana	Analyst: SL		Batch: 2306019
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/07/23	02/08/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.9 %	70-130	02/07/23	02/08/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: RAS		Batch: 2306043
Diesel Range Organics (C10-C28)	72.2	25.0	1	02/08/23	02/08/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/08/23	02/08/23	
Surrogate: n-Nonane		101 %	50-200	02/08/23	02/08/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2306032
Chloride	395	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

SS06A - 0' E302030-08

		E302030-08				
	D. I.	Reporting		ъ .		N. A
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	Analyst: SL		Batch: 2306019
Benzene	ND	0.0250	1	02/07/23	02/08/23	
Ethylbenzene	ND	0.0250	1	02/07/23	02/08/23	
Toluene	ND	0.0250	1	02/07/23	02/08/23	
o-Xylene	ND	0.0250	1	02/07/23	02/08/23	
p,m-Xylene	ND	0.0500	1	02/07/23	02/08/23	
Total Xylenes	ND	0.0250	1	02/07/23	02/08/23	
Surrogate: 4-Bromochlorobenzene-PID		100 %	70-130	02/07/23	02/08/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	Analyst: 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	Ana	lyst: 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	Ana	lyst: BA		Batch: 2306032
Chloride	136	20.0	1	02/07/23	02/07/23	·



QC Summary Data

		(0 ,0		ir y Date							
Kaiser Francis Oil Company		Project Name:	N.	BL Pad #6 12	-7-2022 S _I	pill			Reported:		
1224 Standpipe Rd		Project Number:	21	022-0001				- x			
Carlsbad NM, 88220		Project Manager:	A	shley Gioveng	go			2/9	2/9/2023 4:13:19PM		
		Volatile O	rganics b	oy EPA 802	21B				Analyst: SL		
Analyte		Reporting	Spike	Source		Rec		RPD			
	Result	Limit	Level	Result	Rec	Limits	RPD	Limit			
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes		
Blank (2306019-BLK1)							Prepared: 0	02/07/23 Analyzed: 02/07/23			
Benzene	ND	0.0250									
Ethylbenzene	ND	0.0250									
Toluene	ND	0.0250									
o-Xylene	ND	0.0250									
p,m-Xylene	ND	0.0500									
Total Xylenes	ND	0.0250									
Surrogate: 4-Bromochlorobenzene-PID	8.43		8.00		105	70-130					
LCS (2306019-BS1)				Prej			Prepared: 0	2/07/23 Analy	yzed: 02/08/23		
Benzene	4.46	0.0250	5.00		89.3	70-130					
Ethylbenzene	4.55	0.0250	5.00		91.0	70-130					
Toluene	4.65	0.0250	5.00		92.9	70-130					
p-Xylene	4.77	0.0250	5.00		95.3	70-130					
o,m-Xylene	9.24	0.0500	10.0		92.4	70-130					
Total Xylenes	14.0	0.0250	15.0		93.4	70-130					
Surrogate: 4-Bromochlorobenzene-PID	8.13		8.00		102	70-130					
Matrix Spike (2306019-MS1)				Source:	E302029-	01	Prepared: 02/07/23 Analyzed: 02/07/23				
Benzene	4.68	0.0250	5.00	ND	93.6	54-133					
Ethylbenzene	4.72	0.0250	5.00	ND	94.5	61-133					
Toluene	4.84	0.0250	5.00	ND	96.9	61-130					
o-Xylene	4.88	0.0250	5.00	ND	97.6	63-131					
p,m-Xylene	9.59	0.0500	10.0	ND	95.9	63-131					
Total Xylenes	14.5	0.0250	15.0	ND	96.5	63-131					
Surrogate: 4-Bromochlorobenzene-PID	8.38		8.00		105	70-130					
Matrix Spike Dup (2306019-MSD1)				Source:	E302029-	01	Prepared: 0	2/07/23 Analy	yzed: 02/07/23		
Benzene	5.54	0.0250	5.00	ND	111	54-133	16.8	20			
Ethylbenzene	5.60	0.0250	5.00	ND	112	61-133	16.9	20			
Toluene	5.73	0.0250	5.00	ND	115	61-130	16.8	20			
o-Xylene	5.76	0.0250	5.00	ND	115	63-131	16.6	20			
p,m-Xylene	11.4	0.0500	10.0	ND	114	63-131	17.0	20			
Total Xylenes	17.1	0.0250	15.0	ND	114	63-131	16.8	20			



70-130

Surrogate: 4-Bromochlorobenzene-PID

Surrogate: 1-Chloro-4-fluorobenzene-FID

7.39

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	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			RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2306019-BLK1)							Prepared: 0	2/07/23 Ana	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 Ana	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 Ana	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 Ana	alyzed: 02/07/23	
Gasoline Range Organics (C6-C10)	52.0	20.0	50.0	ND	104	70-130	5.19	20		

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 Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	21	BL Pad #6 12 022-0001 shley Gioveng		oill			Reported: 2/9/2023 4:13:19PM
				300.0/9056 <i>E</i>	,				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 (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	nalvzed: 02/07/23

250

20.0

80-120

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 rights	Lat	b Us	e Only	123		uis		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	3020	230				·0001		<u> </u>				DCDA
				M,88220 Ph	y, State, Zip(ar16bad,, one: 505-382-12	-11			1	Ť	Anaiys	is an	d Meth	oa T	Т	r -			RCRA
Phone: 4	<u> 505 + 3</u>	82-16	11	Em	nail: Ash(2y,giove	nantituescom	12	1200					ŀ				<u> </u>	State	L
Email: 🗛	Shley	. Gibver	190 P.1	MSCOM inc.com	<u> </u>	Joseph	y 80;	y 80	<u></u>			္		-			NM 20	UT AZ	TX
Report d	ue by:		<u>, , , , , , , , , , , , , , , , , , , </u>				RO b	% P	8	826	6010	930		Σ	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'															
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	55040-	o'	U								X					
1535	V3173	5	1	5505 L-	۵,	7								X					
1227	2/3/23	5	1	5506 A -	0,	8								义					
Addition	al Instruc	tions:	reseri	led on	ICe; Please	. Ct.	Co	le.	bu	٠,٠	-6 m	P	70	r 5 G	12	Inc	lom		
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 ir	ice at	t an avg ter				°C on subsequent day	/s.	
Relinguish	ed by: (Signa	tulje) KRRC f	20 2	023 12:22	Received by: (Signature)			Time	22		Recei	ved	on ice:		ab Us 7/ N	se Onl	Ý		
Rud	ed by: (Signa	und	b L.	623 1665	Received by: (Signature)	Date 2-6-2	3	Time	(1)		<u>T1</u>			<u>T2</u>			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	Геm	p°C	4					
Sample Mat	rix: S Soil, So			queous, O - Other		Container		: g - gl	ass, p) - pc	ly/pla	stic,	ag - am	ber gla			<u>, a, mat, ni jiya ngani, 100 mili</u>	anasa nyanji	
					ner arrangements are made. Ha	azardous samples will	be ret	urned t	to clie	nt or	dispose	ed of	at the cl				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 0	08:15	v	Vork Order ID:	E302030
Phone:	(505) 382-1211	Date Logged In:	02/06/23 1	4:13	I	ogged In By:	Caitlin Christian
Email:	ashley.giovengo@wescominc.com	Due Date:	02/13/23 1	17:00 (4 day TAT)			
	Custody (COC) e sample ID match the COC?		Yes				
	e number of samples per sampling site location mat	tch the COC	Yes				
	imples dropped off by client or carrier?		Yes	Carrier: Co	uriar		
	e COC complete, i.e., signatures, dates/times, reques	sted analyses?	Yes	Carrier. <u>Co</u>	<u>ourier</u>		
	I 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 disucssion.	•		_		Comments	/Resolution
	urn Around Time (TAT) COC indicate standard TAT, or Expedited TAT?		Yes				
Sample C							
	ample cooler received?		Yes				
	was cooler received in good condition?		Yes				
9. Was the	e sample(s) received intact, i.e., not broken?		Yes				
	custody/security seals present?						
	were custody/security seals intact?		No				
			NA				
	e 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				
		temperature. 1	<u>~</u>				
Sample C	ueous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers'	9	Yes				
	appropriate volume/weight or number of sample contain		Yes				
	· · ·	iers conected:	105				
Field Lab	net. Field sample labels filled out with the minimum info	rmation					
	imple ID?	mation.	Yes				
	ate/Time Collected?		Yes	L			
	ollectors name?		No				
Sample P	<u>reservation</u>						
21. Does t	the COC or field labels indicate the samples were pr	reserved?	No				
22. Are sa	mple(s) correctly preserved?		NA				
	filteration required and/or requested for dissolved m	netals?	No				
Multipha	se Sample Matrix						
	he sample have more than one phase, i.e., multipha	se?	No				
	does the COC specify which phase(s) is to be analy		NA				
			141				
	act Laboratory	9	NI.				
	imples required to get sent to a subcontract laborato	•	No NA	C.1			
29. was a	subcontract laboratory specified by the client and it	so who:	INA	Subcontract Lab:	na		
Client In	<u>struction</u>						
							-

Date

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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Lynn Jarbuc

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Technical Representative

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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	Keporteu:
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

		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		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	mg/kg Analyst: IY			Batch: 2330003
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene		94.7 %	70-130	07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4		95.7 %	70-130	07/24/23	07/24/23	
Surrogate: Toluene-d8		99.5 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	nalyst: JL		Batch: 2330010
Diesel Range Organics (C10-C28)	1580	250	10	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	1400	500	10	07/24/23	07/24/23	
Surrogate: n-Nonane		97.1 %	50-200	07/24/23	07/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: BA		Batch: 2330005
Chloride	3750	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 22 E307124-02

		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	An	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		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	An	alyst: 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	An	alyst: 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	An	alyst: 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

		Reporting	;			
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analy	Analyst: IY		Batch: 2330003
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene		93.8 %	70-130	07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4		93.8 %	70-130	07/24/23	07/24/23	
Surrogate: Toluene-d8		99.6 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg Analyst: IY			Batch: 2330003	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene		93.8 %	70-130	07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4		93.8 %	70-130	07/24/23	07/24/23	
Surrogate: Toluene-d8		99.6 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: JL		Batch: 2330010
Diesel Range Organics (C10-C28)	2000	1250	50	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	ND	2500	50	07/24/23	07/24/23	
Surrogate: n-Nonane		106 %	50-200	07/24/23	07/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	mg/kg Analyst: BA			Batch: 2330005
Chloride	2420	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 24 E307124-04

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

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	Analyst: JL		Batch: 2330010	
Diesel Range Organics (C10-C28)	1420	250	10	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	803	500	10	07/24/23	07/24/23	
Surrogate: n-Nonane		94.5 %	50-200	07/24/23	07/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	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	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		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	Anal	yst: 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	Anal	yst: 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	Anal	yst: BA		Batch: 2330005
Chloride	7330	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 27 E307124-07

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

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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% 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



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 29 E307124-09

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Analyte	Result	Limit	Dilut	tion	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		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	A	Analyst: IY	7		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	A	Analyst: JL	_		Batch: 2330010
Diesel Range Organics (C10-C28)	3000	250	10)	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	1710	500	10)	07/24/23	07/24/23	
Surrogate: n-Nonane		84.0 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: B	A		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

		Reporting				
Analyte	Result	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		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	Anal	yst: 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	Anal	yst: 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	Anal	yst: BA		Batch: 2330005
Chloride	1720	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 31 E307124-11

		Reporting					
Analyte	Result	Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst:	IY		Batch: 2330003
Benzene	ND	0.0250	1		07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1		07/24/23	07/24/23	
Toluene	ND	0.0250	1		07/24/23	07/24/23	
o-Xylene	ND	0.0250	1		07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1		07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1		07/24/23	07/24/23	
Surrogate: Bromofluorobenzene		105 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4		93.6 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8		101 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	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	1	Analyst: .	JL		Batch: 2330010
Diesel Range Organics (C10-C28)	1420	250	10	0	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	659	500	10	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	1	Analyst:	BA		Batch: 2330005
	1540	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 32 E307124-12

		200712.12				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analy	rst: IY	-	Batch: 2330003
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene		105 %	70-130	07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4		91.6 %	70-130	07/24/23	07/24/23	
Surrogate: Toluene-d8		101 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	rst: 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	Analy	rst: 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	Analy	rst: BA		Batch: 2330005
Chloride	2210	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 33 E307124-13

Analyte	Result	Reporting Limit	Dilu	ıtion	Prepared	Analyzed	Notes
				Analyst:	•	7 Haryzea	Batch: 2330003
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Anaryst.		07/24/22	Batch: 2550005
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	ļ	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	Į	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	l	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene		105 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4		91.0 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8		103 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2330003
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene		105 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4		91.0 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8		103 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	JL		Batch: 2330010
Diesel Range Organics (C10-C28)	1280	250	10	0	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	876	500	10	0	07/24/23	07/24/23	
Surrogate: n-Nonane		79.7 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2330005
Chloride	1870	200	10	0	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 34 E307124-14

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Analyte	Result	Reporting 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		105 %	70-130	07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4		93.7 %	70-130	07/24/23	07/24/23	
Surrogate: Toluene-d8		103 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Aı	nalyst: IY		Batch: 2330003
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene		105 %	70-130	07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4		93.7 %	70-130	07/24/23	07/24/23	
Surrogate: Toluene-d8		103 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Aı	nalyst: JL		Batch: 2330010
Diesel Range Organics (C10-C28)	3130	250	10	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	1940	500	10	07/24/23	07/24/23	
Surrogate: n-Nonane		86.3 %	50-200	07/24/23	07/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Aı	nalyst: BA		Batch: 2330005
Chloride	4010	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 35 E307124-15

		Reporting				
Analyte	Result	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		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	Anal	yst: 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	Anal	yst: 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	yst: 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

Analyte	Result	Reporting Limit		lution	Prepared	Analyzed	Notes
	mg/kg		<i>D</i> II	Analyst		7 Hary Zea	Batch: 2330003
Volatile Organic Compounds by EPA 8260B		mg/kg		Anaryst	07/24/23	07/24/23	Batch: 2550005
Benzene	ND	0.0250		1			
Ethylbenzene	ND	0.0250		1	07/24/23	07/24/23	
Toluene	ND	0.0250		1	07/24/23	07/24/23	
o-Xylene	ND	0.0250		1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500		1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250		1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene		97.5 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8		95.7 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: IY		Batch: 2330003
Gasoline Range Organics (C6-C10)	ND	20.0		1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene		97.5 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8		95.7 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: Л		Batch: 2330010
Diesel Range Organics (C10-C28)	935	125		5	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	911	250		5	07/24/23	07/24/23	
Surrogate: n-Nonane		82.3 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: BA		Batch: 2330005
Chloride	4970	200		10	07/24/23	07/24/23	



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

Result	Reporting Limit		ıtion	Prepared	Analyzed	Notes
mg/kg	mg/kg		Analyst:	IY	<u> </u>	Batch: 2330003
ND	0.0250	1	1	07/24/23	07/24/23	
ND	0.0250	1	[07/24/23	07/24/23	
ND	0.0250	1	l	07/24/23	07/24/23	
ND	0.0250	1	l	07/24/23	07/24/23	
ND	0.0500	1	l	07/24/23	07/24/23	
ND	0.0250	1	l	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	l	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:	ЛL		Batch: 2330010
1020	125	5	5	07/24/23	07/24/23	
670	250	5	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	5	07/24/23	07/24/23	
	mg/kg ND OF THE PROPERTY OF THE PRO	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 0.0250 MD 95.0 % mg/kg mg/kg ND 20.0 96.9 % 100 % 95.0 % 95.0 % mg/kg mg/kg 1020 125 670 250 74.1 % mg/kg	mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 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 95.0 % 70-130 07/24/23 mg/kg mg/kg Analyst: IY ND 20.0 1 07/24/23 100 % 70-130 07/24/23 95.0 % 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	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 07/24/23 100 % 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 % 70-130 07/24/23 07/24/23 mg/kg mg/kg </td



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

	D 1	Reporting	F."		D 1		N.
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst: I	Y		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	
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		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	1	Analyst: I	Y		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	1	Analyst: J	πL		Batch: 2330010
Diesel Range Organics (C10-C28)	1260	125	5	;	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	743	250	5	<u> </u>	07/24/23	07/24/23	
Surrogate: n-Nonane		75.5 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: I	ВА		Batch: 2330005
Chloride	7960	200	10	n	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

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

		E30/124-20				
	D. I.	Reporting		D 1		N. A
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Ana	lyst: 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	Ana	lyst: 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	Ana	lyst: 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	Ana	lyst: BA		Batch: 2330005
Chloride	1890	200	10	07/24/23	07/24/23	



QC Summary Data Kaiser Francis Oil Company NBL Pad #6 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 Source RPD Reporting Spike Rec 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 0.0250 o-Xylene 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 92.4 70-130 2.31 0.0250 Ethylbenzene 70-130 Toluene 2.38 0.0250 2.50 95.1 2.40 2.50 96.0 70-130 0.0250 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 0.495 0.500 98.9 70-130 Surrogate: 1,2-Dichloroethane-d4 Surrogate: Toluene-d8 0.500 70-130 0.491 Matrix Spike (2330003-MS1) Source: E307124-07 Prepared: 07/24/23 Analyzed: 07/24/23

Matrix Spike Dup (2330003-MSD1)				Source:	E307124-0	07	Prepared: 07/24/23 Analyzed: 07/24/23
Surrogate: Toluene-d8	0.496		0.500		99.2	70-130	
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		98.0	70-130	
Surrogate: Bromofluorobenzene	0.473		0.500		94.6	70-130	
Total Xylenes	7.82	0.0250	7.50	ND	104	43-135	
p,m-Xylene	5.20	0.0500	5.00	ND	104	43-135	
o-Xylene	2.62	0.0250	2.50	ND	105	43-135	
Toluene	2.58	0.0250	2.50	ND	103	48-130	
Ethylbenzene	2.52	0.0250	2.50	ND	101	45-135	
Benzene	2.62	0.0250	2.50	ND	105	48-131	

Matrix Spike Dup (2330003-MSD1)				Source:	: E307124-	07	Prepared: 0'	7/24/23 Analyzed: 07/24/23	
Benzene	2.39	0.0250	2.50	ND	95.5	48-131	9.15	23	
Ethylbenzene	2.33	0.0250	2.50	ND	93.3	45-135	7.59	27	
Toluene	2.37	0.0250	2.50	ND	94.6	48-130	8.60	24	
o-Xylene	2.46	0.0250	2.50	ND	98.5	43-135	6.31	27	
p,m-Xylene	4.84	0.0500	5.00	ND	96.8	43-135	7.18	27	
Total Xylenes	7.30	0.0250	7.50	ND	97.4	43-135	6.89	27	
Surrogate: Bromofluorobenzene	0.479		0.500		95.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.478		0.500		95.6	70-130			
Surrogate: Toluene-d8	0.496		0.500		99.2	70-130			

QC Summary Data

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

Nonhalogenated	Organice	by FDA	2015D	CPO
Nonnaiogenateu	Organics	UyEIA	0013D -	GIVO

Anal	

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

	Result	LIIIII	Level	Result	Rec	LIIIIIIS	KrD	LIIIII	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2330003-BLK1)							Prepared: 0'	7/24/23 A	analyzed: 07/24/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.464		0.500		92.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.7	70-130			
Surrogate: Toluene-d8	0.500		0.500		99.9	70-130			
LCS (2330003-BS2)							Prepared: 0'	7/24/23 A	analyzed: 07/24/23
Gasoline Range Organics (C6-C10)	50.0	20.0	50.0		100	70-130			
Surrogate: Bromofluorobenzene	0.488		0.500		97.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.475		0.500		94.9	70-130			
Surrogate: Toluene-d8	0.503		0.500		101	70-130			
Matrix Spike (2330003-MS2)				Source:	E307124-0)7	Prepared: 0'	7/24/23 A	analyzed: 07/24/23
Gasoline Range Organics (C6-C10)			50.0						
	58.7	20.0	50.0	ND	117	70-130			
Surrogate: Bromofluorobenzene	0.491	20.0	0.500	ND	98.1	70-130 70-130			
Surrogate: Bromofluorobenzene Surrogate: 1,2-Dichloroethane-d4		20.0		ND					
•	0.491	20.0	0.500	ND	98.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.491 0.479	20.0	0.500 0.500		98.1 95.7	70-130 70-130 70-130	Prepared: 0'	7/24/23 A	analyzed: 07/24/23
Surrogate: 1,2-Dichloroethane-d4 Surrogate: Toluene-d8	0.491 0.479	20.0	0.500 0.500		98.1 95.7 100	70-130 70-130 70-130	Prepared: 0'	7/24/23 A	nalyzed: 07/24/23
Surrogate: 1,2-Dichloroethane-d4 Surrogate: Toluene-d8 Matrix Spike Dup (2330003-MSD2)	0.491 0.479 0.501		0.500 0.500 0.500	Source:	98.1 95.7 100 E307124- (70-130 70-130 70-130	•		analyzed: 07/24/23
Surrogate: 1,2-Dichloroethane-d4 Surrogate: Toluene-d8 Matrix Spike Dup (2330003-MSD2) Gasoline Range Organics (C6-C10)	0.491 0.479 0.501		0.500 0.500 0.500	Source:	98.1 95.7 100 E307124- 0	70-130 70-130 70-130 70-130	•		analyzed: 07/24/23



QC Summary Data

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

Carlsbad NM, 88220		Project Manage	r: Ge	eorgeann Goo	dman				7/25/2023 3:52:12PM
	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 (2330010-BLK1)							Prepared: 0	7/24/23 A	nalyzed: 07/24/23
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	51.5		50.0		103	50-200			
LCS (2330010-BS1)							Prepared: 0	7/24/23 A	analyzed: 07/24/23
Diesel Range Organics (C10-C28)	257	25.0	250		103	38-132			
urrogate: n-Nonane	50.2		50.0		100	50-200			
Matrix Spike (2330010-MS1)				Source:	E307124-	05	Prepared: 0	7/24/23 A	analyzed: 07/24/23
Diesel Range Organics (C10-C28)	1910	250	250	1420	199	38-132			M4
urrogate: n-Nonane	54.2		50.0		108	50-200			
Matrix Spike Dup (2330010-MSD1)				Source:	E307124-	05	Prepared: 0	7/24/23 A	analyzed: 07/24/23
Diesel Range Organics (C10-C28)	1770	250	250	1420	141	38-132	7.95	20	M4
'urrogate: n-Nonane	52.0		50.0		104	50-200			



Chloride

Chloride

Chloride

Matrix Spike (2330005-MS1)

Matrix Spike Dup (2330005-MSD1)

262

4550

3700

QC Summary Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220		•	Project Name: NBL Pad #6 Project Number: 21022-0001 Project Manager: Georgeann Goodman						Reported: 7/25/2023 3:52:12PM
		Anions		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 (2330005-BLK1)						I	Prepared: 0	7/24/23 A	Analyzed: 07/24/23
Chloride	ND	20.0							
LCS (2330005-BS1)						I	Prepared: 0	7/24/23 A	Analyzed: 07/24/23

250

250

250

20.0

100

100

105

321

NR

Source: E307124-01

Source: E307124-01

3750

3750

90-110

80-120

80-120

20.6

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

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

M4

20

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



Definitions and Notes

ſ	Kaiser Francis Oil Company	Project Name:	NBL Pad #6	
l	1224 Standpipe Rd	Project Number:	21022-0001	Reported:
١	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.



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

3_of_ <u>6</u>	Keceiv
]	cerved by
]	OCD:
	D: 8/
	8/18/2023
}	
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Project Information	Chai	in of Cus	tody		<u> </u>	ىدەر	-110) () ()	1							Page	3_of_ <u>6</u>
Client: Kalson Francis (Dil (C) Maria Bill To		S. J. Jews	ar Yeyir	ادات	UTH hillse	P 4	183	24			TAT	-		FPΔ Pi	rogram	
Project: NBL Pod #10	Attention: U PSC Com Unit.									1D	2D 3		Standa	ard	CWA	SDWA	,
Project Manager: OUTORONN C Address: 1224 Skyrd Dipe	2000 man Address: L		E3	51	a	1 6		imber 13-0	00/	X							
Address: 1224 Standpipe	City, State, Zip 🗠					Aĭ	nalysis	and M	lethod				\$.9%			RCRA	1
City, State, Zip (ar) Sond (Vm Phone: 5757251311	<u> </u>		.										الله البيا		State	L	ł
Email: appraecing, approxima			8015	801				ا ڊ		_			NM		JT AZ	TX	
Report due by: Wescominc (Com 🔠		Š Š	S by	805	8260	90 8	8	1 1	Σ	ř		X				
Time Date Matrix No. of Containers	Sample ID	Lab Number,	DRO/ORO	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC	верос			F	lemarks		
0840 7/21 501 1	Confal	Los	L							Х							
	conf22 2	120	لح							Х							
0844	Conf23	3								χ							
0846	Confay	y.					_			Х							
	Conf 25	5								Х							33
0950	Conf 24	Ø								X							
0852	Conf 27	7			,					Х							6 00
0864	Conf 28	8								Х							
0856	Conf 29	9								X							
0858 4 4 1	Conf30	10								X							1,,,,
Additional Instructions: AS SEEN ON OR OR	One. Trank You Cicity of this sample. I am aware that tampering with or intentionally mislabel	X:HX	$\mathcal{Z}_{\mathcal{I}}$	JE S	He.	X /2	Sh	ညှ	<u>න</u> .ද	*	业	2, C 2, C	XSX XXX	rge Cope	مي م	0.9a	BOWA
l, (field sampler), attest to the validity and authenti	icity of this sample. I am aware that tampering with or intentionally mislabel	lling the saf	nple lo	cation	_ ر	S	amples r	equiring a	ice at an	reserva avg tem	tion mus ip above	0 but le	elved on ic	e the day C on subse	they are sar quent days	npled or	
date or time of collection is considered fraud and m Relinquished by: (Signature) Date	Time Received by: (Signature)	Date		Time	 60		water?	in the second		فَا	b)Use			(1) (1) (1)			
Relinquished by: (Signature) A Date	Time Received by: (Signature) D	7-21-2		Time		$\overline{}$		/édkon	(ice:	(*	ÿ'n			VIII Vii A	en.		
Relinquished by: (Signature) Date	Time Received by: (Signature)	Sate	_	Time	X		<u> </u>	The second	==_	T2)_		er .	73.	7	- 11	2. 	: :

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.



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

AVG Temp C_

enviroteche client expense. The report for the analysis of the environment.

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Ра

Client: Kaiser Francis OI Co Bill To						Lab Use Only TAT				EPA P	rogram								
Project: NBL Pad #6 Attention: Wescom Inc			00		WO			Job J			1D	2D	3D	Standard	CWA	SDWA			
Project N	Manager:	almae	ann	a.	Address: 1		F?	30	712	14	210	\mathcal{Q}	3-WW	X					
Address:	1224	Stanc	IDIDO	DRd	City, State, Zip 🕊				110	_	_		nd Method	1			135		RCRA
City, Stat	e. Zip (irlsm	MA HE	n 88220	Phone: 12		-								100				
													10.00					State	
Email (OMORO	2513 unn.a	poduo	000	Email: 1/		3015	8015	100					11			NINAL CO		TTVI
Para	cologer	PSCOM	COGINI	ane			by 8	by 8	121	90	01	00.0		Σ×	_			UT AZ	17
		EXCUIT	MINC.C	ONY		-	8	80	γ 80	, 8260	.09	e 3			¥		X		
Time	Date	Matrix	No. of Containers	Sample ID		Lab	DRO/ORO by 8015	GRO/DRO by	ВТЕХ ЬУ 8021	VOC by	Metals 6010	Chloride 300.0		верос	верос			Remark	S
Sampled	Sampled		Containers	Acceptance of the		Number	- A	GB GB	BT	>	ž	ಕ		BG	BG			44-40-34	
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1)					12													
5000	1	SOIL		CONF3	2	16								X					
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Addition	al Instru	rtions		(01 11-1		10.						-		/	_				
~	seen		man	c)n o	Thank You!														
		o the validity	and author	ticity of this sample	. I am aware that tampering with or intentionally	mislabelling the s	amnla	locatio	n		Sample	es requ	iring thermal p	reserv	ation m	ust be re	eceived on ice the d	av they are sa	mpled or
				may be grounds for		manufamily the se	pic	CLUCIO									less than 6 °C on su		
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the second second second					d unless other arrangements are made. Has										ent ex	pense.	The report fo	the analy	sis of the
above samp	bove 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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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.

	ed: 07/24/23	05:30	Work Order ID: E307124
Phone: 575-725-1311 Date Logged	I In: 07/24/23	06:13	Logged In By: Alexa Michaels
Email: georgeann.goodman@wesominc.com Due Date:	07/24/23	17:00 (0 day TAT)	<i>.</i>
Chain of Custody (COC)			
1. Does the sample ID match the COC?	Yes		
2. Does the number of samples per sampling site location match the COC	Yes		
3. Were samples dropped off by client or carrier?	Yes	Carrier: C	ourier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses	? Yes	- · · · · <u>-</u>	
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		E30/124, 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 w/i minutes of sampling	Yes		
13. If no visible ice, record the temperature. Actual sample temperature	: <u>4°C</u>		
Sample Container	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 collected	? Yes		
Field Label			
20. Were field sample labels filled out with the minimum information: Sample ID?	Yes		
Date/Time Collected?	Yes		
Collectors name?	Yes		
Sample Preservation			
21. Does the COC or field labels indicate the samples were preserved?	No		
22. Are sample(s) correctly preserved?	NA		
24. Is lab 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		
Subcontract Laboratory			
CARCULULANTIALUL T	No		
			MA
28. Are samples required to get sent to a subcontract laboratory? 29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab	: 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

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

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Alexa Michaels

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Technical Representative/Client Services

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

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

Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analys	•		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	Analys	t: 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	Analys	t: 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	Analys	t: BA		Batch: 2330006
2350	200	10	07/24/23	07/24/23	
	mg/kg ND ND ND ND ND ND ND ND The state of t	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 MB/kg mg/kg MB/kg mg/kg MB/kg mg/kg 1590 125 953 250 97.9 % mg/kg mg/kg mg/kg	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 Mg/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	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 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	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 mg/kg mg/kg Analyst: IY ND 20.0 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: 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 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 02

		E307125-02						
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		99.6 %	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		82.0 %	70-130	07/24/23	07/24/23			
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: ЛL		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	Analys	t: BA		Batch: 2330006		
Chloride	2090	100	5	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 03 E307125-03

		Reporting					
Analyte	Result	Limit		ution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst	: IY		Batch: 2330002
Benzene	ND	0.0250		1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250		1	07/24/23	07/24/23	
Toluene	ND	0.0250		1	07/24/23	07/24/23	
o-Xylene	ND	0.0250		1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500		1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250		1	07/24/23	07/24/23	
Surrogate: 4-Bromochlorobenzene-PID		98.4 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: IY		Batch: 2330002
Gasoline Range Organics (C6-C10)	ND	20.0		1	07/24/23	07/24/23	
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		Analyst	: JL		Batch: 2330009
Diesel Range Organics (C10-C28)	1540	125		5	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	1050	250		5	07/24/23	07/24/23	
Surrogate: n-Nonane		94.1 %	50-200		07/24/23	07/24/23	

40.0

mg/kg

1110

Analyst: BA

07/24/23

07/24/23

2



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 04

E307125-04

		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		98.8 %	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		80.3 %	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)	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	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: BA		Batch: 2330006
Chloride	3020	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

Conf 05 E307125-05

		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		99.4 %	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		80.3 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: 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	Anal	yst: 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

Conf 06

E307125-06

		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		99.0 %	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		81.0 %	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)	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	t: BA		Batch: 2330006
Chloride	2050	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

Conf 07

E307125-07							
		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		100 %	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		83.6 %	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)	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	Ana	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

E 207	135 00
E307	I /5_IIX

		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

Conf 09

		E307125-09				
		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		100 %	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		80.7 %	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)	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	Ana	lyst: BA		Batch: 2330006
Chloride	2690	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

Conf 10

E307125-10								
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		100 %	70-130	07/24/23	07/24/23			
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2330002		
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23			
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	Analys	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	Analys	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

Conf 11

E307125-11

		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		95.3 %	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		83.9 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: 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	Anal	yst: BA		Batch: 2330006
	•		<u> </u>		<u> </u>	<u> </u>



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 12

E307125-12

		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		94.7 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2330002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
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	Analyst: JL			Batch: 2330009
Diesel Range Organics (C10-C28)	1390	250	10	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	1420	500	10	07/24/23	07/24/23	
Surrogate: n-Nonane		96.5 %	50-200	07/24/23	07/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: 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	Ana	ılyst: 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	
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: 4-Bromochlorobenzene-PID		93.4 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2330002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
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	Ana	ılyst: 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	Ana	ılyst: BA		Batch: 2330006
Chloride	1010	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 14

E307125-14

		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		95.4 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2330002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		84.4 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	Analyst: JL		Batch: 2330009
Diesel Range Organics (C10-C28)	1590	250	10	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	967	500	10	07/24/23	07/24/23	
Surrogate: n-Nonane		107 %	50-200	07/24/23	07/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: BA		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 15

E307125-15

		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		93.9 %	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		83.2 %	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)	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	Analys	t: BA		Batch: 2330006
· · · · · · · · · · · · · · · · · · ·		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

		200.120 10				
Analyte	Result	Reporting 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		93.7 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg mg/kg		Analyst: IY			Batch: 2330002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
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)	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	t: 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

Conf 17

		E307125-17				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	rst: 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	
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: 4-Bromochlorobenzene-PID		93.7 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	rst: 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	Analy	rst: 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	Analy	rst: 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	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		94.1 %	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		84.3 %	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)	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	mg/kg	Analys	st: BA		Batch: 2330006
Chloride	1770	100	5	07/24/23	07/24/23	



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 19

		E307125-19					
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		94.2 %	70-130	07/24/23	07/24/23		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	vst: 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	Analy	vst: 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	mg/kg	Analy	vst: BA		Batch: 2330006	

100

4280

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 20 E307125-20

		200.120.20				
Analyte	Result	Reporting 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		95.5 %	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		84.5 %	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)	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	mg/kg	Analy	yst: BA		Batch: 2330006
Chloride	2070	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 Surrogate: 4-Bromochlorobenzene-PID 8.07 8.00 70-130 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

QC Summary Data

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

Carlsbad NM, 88220		Project Manage	r: Ge	orgeann Goo	odman				7/25/2023 3:55:00PM
	Nor	halogenated	Organics l	by EPA 80	15D - Gl	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 Aı	nalyzed: 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 Aı	nalyzed: 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 Aı	nalyzed: 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 Aı	nalyzed: 07/24/23
Gasoline Range Organics (C6-C10)	45.4	20.0	50.0	ND	90.7	70-130	1.23	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.64		8.00		83.0	70-130			



QC Summary Data

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

Carlsbad NM, 88220		Project Manage	r: Ge	eorgeann Goo	dman				7/25/2023 3:55:00PN		
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 (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					
LCS (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 (2330006-MS1)

Matrix Spike Dup (2330006-MSD1)

Chloride

Chloride

2550

2410

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

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

20

QC Summary Data

Kaiser Francis Oil Company 1224 Standpipe Rd		Project Name: Project Number		NBL Pad #6 1022-0001					Reported:
Carlsbad NM, 88220		Project Manager	r: (Georgeann Goo	dman				7/25/2023 3:55:00PM
		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 (2330006-BLK1)							Prepared: 0	7/24/23 A	Analyzed: 07/24/23
Chloride	ND	20.0							
LCS (2330006-BS1)							Prepared: 0	7/24/23 A	Analyzed: 07/24/23
Chloride	257	20.0	250		103	90-110			

250

250

200

200

Source: E307125-01

Source: E307125-01

81.7

23.1

80-120

80-120

5.90

2350

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.



Definitions and Notes

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

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

associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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



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Client: K				11 Co		Bill To Wes	comine			La	ab Us	se On	ly				TAT		EPA P	rogram
Project: N	BL	Pad #	to	0	A	ttention: WWW. L. J. WOODO	032	Lab	WO	# 	_	Job I	Numb	er		2D	3D	Standard	CWA	SDWA
Project M	anager:	yunge	ann	account	can A	ddress: 1224 Standpl	De Ka	E:	0	112				1-00						
Project Manager: Almolan nocodman Address: 1224 Stand P City, State, Zip (ar) Shad 10m 88220 Phone: 5757251311						n 663	0		1		Analy	sis an	d Metho	od					RCRA	
			adiv	hone: 5757251311	lane is	70											Chaha			
Email:	none: 5757251311 Email: appropriate Approp								8015				~					NIMI CO	State UT AZ	TX
Report du	e bv:				1	@wescominc.	rom) by 8015	by 8	3021	260	010	300.0		Σ×	×		V	OT AZ	17
Time	Date Sampled	Matrix	No. of Containers	Sample ID			Lab Number	DRO/ORO	GRO/DRO by	BTEX by 802:	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC	BGDOC			Remarks	
0800	7/21	Soil	1	Con	FOL		1		14						X					
0802	1			Conf	02		2								X					
0804				Conf	- 03		3								X					
0806			1	Conf	104		4								X					
0808				Conf	05		5								X					
0810			1	Conf	06		6								X					
0812			1	Conf	707		7								χ					
0814			1	Conf	08		8								X					
0814			1	Conf	09		9								X					
0818	V	V		Conf			10								X					
Additiona	2 50	and to	2 ac	oraea	nn.a	erawescomina.co	minci	(0)	m.	-	Soe	11.1	VI	DCPR	UL	res	Om	MNC.CC	CW	
11.00					ample. I am a nds for legal ac	ware that tampering with or intentionally mistion. Sampled by: 0000	And the second second		4		10	-						ceived on ice the description on su		
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-	28		7	123	3:000			13	100	500		Rece	eived	on ice:		N	5 5111)			
Relinguished by: (Signature) Date Time Received by: (Signature) Aucluly Received by: (Signature)							7-24		Time		0	T1			<u>T2</u>	J.,		<u></u>		
Relinquishe	d by: (Sigi	natur e /	Date		Time	Received by: (Signatule)	Date		Time			AVG	Tem	p °C_	4					
Sample Matri	imple Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other								Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA											
A CONTRACTOR OF THE SECOND						s other arrangements are made. Hazar										ent exp	oense.	The report for	the analys	is of the
above samp	les is app	licable only	to those s	amples recei	ved by the la	boratory with this COC. The liability of the	ne laboratory	is lim	ited to	o the a	amou	nt paic	for o	n the rep	ort.					

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	ent: Kalsa Francis Oil Co Bill To										La		e Onl					TAT			rogram
?roject: [ect: NBJ Paci #10 ect Manager: AUV quan q Attention: Wescom in Address: 1224 Stand Pi							LOV	Lab	WO#	100	_	Job N	lumb	er	1D	2D 3	D St	andard	CWA	SDWA
Address:	lanager:	STON C	Hoin	0 000		ity, State, Zip Carl	anapp	lho Ka	E.	01	ld		AIL.	000	1000-	X	RCRA				
City State	Zin (1115/2	don	1882		hone: <	SUCCE		-		T	Analysis and Method RCRA					NCNA				
Phone: 5	575 7	25131																			
Email: 00				na					8015	8015	н.	-		0.0		-			NM CO		TX
Report du	ue by: U	sesco	mino	.com	Υ				RO by	RO by	8021	by 8260	6010	e 300		S	×		X		
Time	Date	Matrix	No. of Containers	Sample II	D			Lab	0/0	GRO/DRO	втех ьу	VOC by	Metals 6010	Chloride 300.0		BGDOC	верос		-	Remarks	
Sampled	Sampled		Containers					Number	PP	99	18	>	Σ	5		BG	86	-			
0820	7/21	Sall	1	Conf	112			11								X					
2030	1101	1	-1-	COLI	Н			10									-				
5822				Conf	512			12								X					
			Α.	_	0.0			13								V					
0824		-		Con	F13			\sim	-						_	X		-			
0826			1	Conf	214			14								X					
Josep																-					
0828				Conf	F 15			15		-						X					
			1					110								X					
2830		-		Con	FILE			10	-		-					1		-			
0832			1	Conf	17			1								X					
								18								.,	-				
5834				Conf	-18			10		. ==						*			1		
- 60:			1					19								X					
0836				Conf	19			10						-		,					
0838	V	U	1	Conf	:20			20								X					
Additiona	al Instruc	tions:		ICOLIF	00			0.0	1		_	-	_					_	-		
		0	5 5	ren	on r	sage one	. Thay	nky	ou												
			y and authe	nticity of this	sample. I am a	ware that ampering with or in	ntentionally mislal	belling the sa	imple l	ocation									ed on ice the da han 6 °C on sub		12.00.000
date or time Relinquishe			ed fraud and Date		unds for legal ac	Received by: (Signatur	an	Date		Time				- France			b Use				
Ciliquisite	Q Dy. (Sign	ature)	7/		3:00 PM		Carole		13	15	00		Rece	ived	on ice:) N	Only			
Relinquishe	d by; (Sign	ature)	Date		Time	Received by: (Signatur	4) 4	23/11	2	Time	2		.,	.,		C	, ,				
Mich	le	lenza	N 7-	22.23	1830	(I) LULL		1.64	65	5	3		T1			<u>T2</u>			<u>T3</u>		
Relinquishe	d by: (Sign	ature/	Date		Time	Received by: (Signatur	E	Date		Time						4					
													AVG			1					
		the second second		Aqueous, O	1-0.00	e other presents	made Harri	Containe											a vanc at for	the need	f +-
						s other arrangements are boratory with this COC. Th											nt expe	nse. In	e report for	the analys	is of the
DOTE Samp	ores is appr	icabic only	to those s	unpies rece	ived by the la	boratory with this coe. In	e nabiney of the	aboratory	13 11111	ted to	the u	mour	/ puld	7	ir the rep	_				_ 1	
													1	2		E	3	IV	'i r	O 1	e
																				- 1	-

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:	07/24/23	17:00 (0 day TAT)			
Chain of	Custody (COC)						
	Custody (COC)		37				
	he sample ID match the COC? he number of samples per sampling site location match	h the COC	Yes				
	amples dropped off by client or carrier?	ii tile eoe	Yes	G : 6	· ·		
	e COC complete, i.e., signatures, dates/times, requeste	ed analyses?	Yes Yes	Carrier: <u>C</u>	<u>ourier</u>		
	Il samples received within holding time?	ed analyses.	Yes				
3. Word a	Note: Analysis, such as pH which should be conducted in t i.e, 15 minute hold time, are not included in this disucssion		105			Comment	ts/Resolution
Sample T	Turn Around Time (TAT)						
6. Did the	e COC indicate standard TAT, or Expedited TAT?		Yes		,	*	as been seperated
Sample (<u>Cooler</u>				into 3 work	orders due to	o high volume of
	sample cooler received?		Yes		samples. W	orkorders ar	e as follows:
8. If yes,	was cooler received in good condition?		Yes		-	307125 and	
9. Was th	e sample(s) received intact, i.e., not broken?		Yes		2007121,2	.507125 4114	250,120
10. Were	custody/security seals present?		No				
11. If yes	, were custody/security seals intact?		NA				
12. Was th	the sample received on ice? If yes, the recorded temp is 4°C, i. Note: Thermal preservation is not required, if samples are iminutes of sampling		Yes				
13. If no	visible ice, record the temperature. Actual sample to	emperature: 4°C	<u> </u>				
Sample (<u>Container</u>						
14. Are a	queous VOC samples present?		No				
15. Are V	OC 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 n	on-VOC samples collected in the correct containers?		Yes				
19. Is the	appropriate volume/weight or number of sample containe	rs collected?	Yes				
Field Lal							
	field sample labels filled out with the minimum inform	mation:	*7				
	ample ID? eate/Time Collected?		Yes				
	Collectors name?		Yes Yes				
Sample F	Preservation		105				
21. Does	the COC or field labels indicate the samples were pre-	served?	No				
22. Are sa	ample(s) correctly preserved?		NA				
	filteration required and/or requested for dissolved me	tals?	No				
Multipha	ase 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 analyz	red?	NA				
Subcontr	act Laboratory						
	amples required to get sent to a subcontract laboratory	1?	No				
	a subcontract laboratory specified by the client and if s		NA	Subcontract Lab	: NA		
Client II	<u>nstruction</u>						
Signat	ture of client authorizing changes to the COC or sample dispo	osition.			Date		envirotech I

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: 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

Laboratory Director Office: 505-632-1881

Cell: 775-287-1762

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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

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

		2007120 01					
Analyte	Result	Reporting Limit	Dilu	tion	Prepared	Analyzed	Notes
Allalyte	Result	Limit	Dilu	tion	Trepared	Allaryzed	rvotes
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		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	1	Analyst: IY			Batch: 2330004
Gasoline Range Organics (C6-C10)	ND	20.0	1		07/24/23	07/24/23	
Surrogate: Bromofluorobenzene		100 %	70-130		07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4		93.4 %	70-130		07/24/23	07/24/23	
Surrogate: Toluene-d8		100 %	70-130		07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: JL			Batch: 2330011
Diesel Range Organics (C10-C28)	1840	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		90.7 %	50-200		07/24/23	07/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA	A		Batch: 2330007
Chloride	2460	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 5:40:47PM

Conf 42 E307126-02

		E507120-02				
Analyte	Result	Reporting Limit	Dilutio	on Prepared	Analyzed	Notes
·				1	7 Hidiy 200	
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	An	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	An	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	An	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	An	nalyst: BA		Batch: 2330007
Chloride	3280	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 5:40:47PM

Conf 43 E307126-03

		E507120-05				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
· ·	mg/kg	mg/kg		yst: IY		Batch: 2330004
Volatile Organic Compounds by EPA 8260B	ND	0.0250	1	07/24/23	07/24/23	Batch. 2330004
Benzene			1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	•			
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	Anal	yst: 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	Anal	yst: 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	Anal	yst: BA		Batch: 2330007
Chloride	3920	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 44 E307126-04

		E30/120-04				
		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	



K	Kaiser Francis Oil Company	Project Name:	NBL Pad #6	
1	224 Standpipe Rd	Project Number:	21022-0001	Reported:
C	Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	7/25/2023 5:40:47PM

Conf 45 E307126-05

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analy	rst: IY		Batch: 2330004
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene		95.4 %	70-130	07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4		95.2 %	70-130	07/24/23	07/24/23	
Surrogate: Toluene-d8		99.8 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	rst: 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	Analy	rst: 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	Analy	vst: BA		Batch: 2330007
Chloride	3990		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 46 E307126-06

		E507120-00				
Analyte	Result	Reporting Limit	Dilutio	on Prepared	Analyzed	Notes
,				nalyst: IY	111111111111111111111111111111111111111	Batch: 2330004
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A			Batch: 2330004
Benzene	ND	0.0250	1	07/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07/24/23	07/24/23	
Toluene	ND	0.0250	1	07/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene		96.3 %	70-130	07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4		92.7 %	70-130	07/24/23	07/24/23	
Surrogate: Toluene-d8		100 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	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	Ai	nalyst: BA		Batch: 2330007
Chloride	4140	200	10	07/24/23	07/24/23	



K	Kaiser Francis Oil Company	Project Name:	NBL Pad #6	
1	224 Standpipe Rd	Project Number:	21022-0001	Reported:
C	Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	7/25/2023 5:40:47PM

Conf 47 E307126-07

		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		96.2 %	70-130	07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4		96.4 %	70-130	07/24/23	07/24/23	
Surrogate: Toluene-d8		98.1 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: IY		Batch: 2330004
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: Bromofluorobenzene		96.2 %	70-130	07/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4		96.4 %	70-130	07/24/23	07/24/23	
Surrogate: Toluene-d8		98.1 %	70-130	07/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: JL		Batch: 2330011
Diesel Range Organics (C10-C28)	1200	250	10	07/24/23	07/24/23	
Oil Range Organics (C28-C36)	1070	500	10	07/24/23	07/24/23	
Surrogate: n-Nonane		75.2 %	50-200	07/24/23	07/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: BA		Batch: 2330007
Chloride	3730	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 Goodman7/25/2023 5:40:47PM

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E307126-08

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



K	Kaiser Francis Oil Company	Project Name:	NBL Pad #6	
1	224 Standpipe Rd	Project Number:	21022-0001	Reported:
C	Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	7/25/2023 5:40:47PM

Conf 49

		E307126-09				
		Reporting				
Analyte	Result	Limit	Dilut	ion Prepa	red Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	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	Α	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	Α	Analyst: BA		Batch: 2330007
Chloride	4410	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 50 E307126-10

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Ana	ılyst: 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	Ana	ılyst: 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	Ana	ılyst: 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	Ana	nlyst: BA		Batch: 2330007
Chloride	4870	400	20	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

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		E307126-11					
		Reporting					
Analyte	Result	Limit	Dilut	tion Pr	epared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: IY			Batch: 2330004
Benzene	ND	0.0250	1	07	/24/23	07/24/23	
Ethylbenzene	ND	0.0250	1	07	/24/23	07/24/23	
Toluene	ND	0.0250	1	07	/24/23	07/24/23	
o-Xylene	ND	0.0250	1	07	/24/23	07/24/23	
p,m-Xylene	ND	0.0500	1	07	/24/23	07/24/23	
Total Xylenes	ND	0.0250	1	07	/24/23	07/24/23	
Surrogate: Bromofluorobenzene		97.0 %	70-130	07	/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	07	/24/23	07/24/23	
Surrogate: Toluene-d8		94.7 %	70-130	07	/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: IY			Batch: 2330004
Gasoline Range Organics (C6-C10)	ND	20.0	1	07	/24/23	07/24/23	
Surrogate: Bromofluorobenzene		97.0 %	70-130	07	/24/23	07/24/23	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	07	/24/23	07/24/23	
Surrogate: Toluene-d8		94.7 %	70-130	07	/24/23	07/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: JL			Batch: 2330011
Diesel Range Organics (C10-C28)	1610	250	10	07	/24/23	07/24/23	
Oil Range Organics (C28-C36)	787	500	10	07	/24/23	07/24/23	
Surrogate: n-Nonane		70.5 %	50-200	07	/24/23	07/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: BA			Batch: 2330007
Chloride	2770	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

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E307126-12 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 97.8 % 70-130 Surrogate: 1,2-Dichloroethane-d4 101 % 70-130 07/24/23 07/24/23 Surrogate: Toluene-d8 94.9 % 70-130 07/24/23 07/24/23 Nonhalogenated Organics by EPA 8015D - GRO mg/kg mg/kg Analyst: IY Batch: 2330004 ND 07/24/23 07/24/23 20.0 1 Gasoline Range Organics (C6-C10) Surrogate: Bromofluorobenzene 97.8 % 07/24/23 07/24/23 70-130 07/24/23 Surrogate: 1,2-Dichloroethane-d4 101 % 70-130 07/24/23 Surrogate: Toluene-d8 07/24/23 07/24/23 94.9 % 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 1130 Diesel Range Organics (C10-C28) 585 500 10 07/24/23 07/24/23 Oil Range Organics (C28-C36) 68.1 % 07/24/2307/24/23 Surrogate: n-Nonane 50-200 Anions by EPA 300.0/9056A mg/kg mg/kg Analyst: BA Batch: 2330007

400

4690

20

07/24/23

07/24/23



Chloride

Benzene

QC Summary Data

Kaiser Francis Oil Company NBL Pad #6 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 Source Reporting Spike 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 0.0250 o-Xylene 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 96.3 70-130 0.0250 Ethylbenzene 70-130 Toluene 2.39 0.0250 2.50 95.8 2.45 2.50 97.8 70-130 o-Xylene 0.0250 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 0.477 0.500 95.3 70-130 Surrogate: 1,2-Dichloroethane-d4 Surrogate: Toluene-d8 0.500 102 70-130 0.508 Matrix Spike (2330004-MS1) Source: E307126-02 Prepared: 07/24/23 Analyzed: 07/24/23

Ethylbenzene	2.58	0.0250	2.50	ND	103	45-135				
Toluene	2.54	0.0250	2.50	ND	102	48-130				
o-Xylene	2.60	0.0250	2.50	ND	104	43-135				
p,m-Xylene	5.18	0.0500	5.00	ND	104	43-135				
Total Xylenes	7.78	0.0250	7.50	ND	104	43-135				
Surrogate: Bromofluorobenzene	0.516		0.500		103	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.6	70-130				
Surrogate: Toluene-d8	0.510		0.500		102	70-130				
Matrix Spike Dup (2330004-MSD1)				Source:	E307126-0	02	Prepared: 07	/24/23 Ar	nalyzed: 07/24/	/23
Benzene	2.62	0.0250	2.50	ND	105	48-131	0.114	23		
Ethylbenzene	2.61	0.0250	2.50	ND	104	45-135	1.12	27		

2.50

ND

105

48-131

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			

2.62

0.0250

Gasoline Range Organics (C6-C10)

 ${\it Surrogate: Bromofluor obenzene}$

Surrogate: Toluene-d8

Surrogate: 1,2-Dichloroethane-d4

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

Carlsbad NM, 88220		Project Manager	:: Ge	eorgeann Good	dman			7/2:	5/2023 5:40:47PM
	Non	halogenated (Organics l	by EPA 801	15D - Gl	RO			Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2330004-BLK1)							Prepared: 0	7/24/23 Analy	vzed: 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 Analy	zed: 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 Analy	zed: 07/24/23
Gasoline Range Organics (C6-C10)	59.8	20.0	50.0	ND	120	70-130			
Surrogate: Bromofluorobenzene	0.521		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.472		0.500		94.3	70-130			
Surrogate: Toluene-d8	0.518		0.500		104	70-130			
Matrix Spike Dup (2330004-MSD2)				Source:	E307126-	02	Prepared: 0	7/24/23 Analy	zed: 07/24/23

50.0

0.500

0.500

0.500

20.0

ND

122

103

94.6

105

60.9

0.515

0.473

0.524

70-130

70-130

70-130

70-130

1.82



QC Summary Data

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

Carlsbad NM, 88220		Project Manage	r: Ge	orgeann Goo	dman				7/25/2023 5:40:47PN
	Nonha	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 (2330011-BLK1)							Prepared: 0	7/24/23	Analyzed: 07/24/23
tiesel Range Organics (C10-C28)	ND	25.0							
vil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	42.1		50.0		84.3	50-200			
.CS (2330011-BS1)							Prepared: 0	7/24/23	Analyzed: 07/24/23
viesel Range Organics (C10-C28)	211	25.0	250		84.4	38-132			
urrogate: n-Nonane	36.5		50.0		73.0	50-200			
Matrix Spike (2330011-MS1)				Source:	E307126-	12	Prepared: 0	7/24/23	Analyzed: 07/24/23
riesel Range Organics (C10-C28)	1280	250	250	1130	58.6	38-132			
urrogate: n-Nonane	33.8		50.0		67.5	50-200			
Matrix Spike Dup (2330011-MSD1)				Source:	E307126-	12	Prepared: 0	7/24/23	Analyzed: 07/24/23
tiesel Range Organics (C10-C28)	1430	250	250	1130	119	38-132	11.1	20	
urrogate: n-Nonane	35.8		50.0		71.6	50-200			



Chloride

QC Summary Data

Kaiser Francis Oil Company 1224 Standpipe Rd		Project Name: Project Number:		NBL Pad #6				Reported:	
Carlsbad NM, 88220		Project Manager		Georgeann Goo	dman				7/25/2023 5:40:47PM
		Anions	by EPA	300.0/9056	1				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 (2330007-BLK1)							Prepared: 0	7/24/23 A	Analyzed: 07/24/23
Chloride	ND	20.0							
LCS (2330007-BS1)							Prepared: 0	7/24/23 A	Analyzed: 07/24/23
Chloride	266	20.0	250		106	90-110			
Matrix Spike (2330007-MS1)				Source:	E307126-	01	Prepared: 0	7/24/23 A	Analyzed: 07/24/23
Chloride	2980	100	250	2460	208	80-120			M4
Matrix Spike Dup (2330007-MSD1)				Source:	E307126-	01	Prepared: 0	7/24/23 A	Analyzed: 07/24/23

250

100

80-120

6.02

139

2810

QC Summary Report Comment:

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



Definitions and Notes

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

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

associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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



Client Marche Co	14:016	N.1 Co 1	Dill T-			1-1	#C		e Onl			1	_	TAT		EPA Pr	ogram
Client: KAISER FR Project: NBL Pac	#10	DILCO	Attention: 11085 COO 11	10.	Lab \	NO#	Lai				oer_	1D	2D		Standard	CWA	SDWA
Project Manager: Ge or	alan	n a	Address: 1224 Stands	Dipe	E3	57	121				er OOO	X	11.1				
Address: DU Sta City, State, Zip COUS	rapy	of old	City, State, Zip					- 1	Analys	sis an	d Metho	d		-			RCRA
Phone: 57572513	oll	a asse	Phone: //		27	ιú										State	
mail: Olungean	. 0000				y 8015	y 8015	27	0	0	300.0		ΣZ				UT AZ	TX
	1	nc.com		125	ORO L	DRO b	by 80.	y 826	s 601	de 30			×		χ		
Time Date Sampled Sampled Matr	X No. of Container	s Sample ID		Lab Number	DRO/ORO by	GRO/DRO by	BTEX by 8021	VOC by 8260	Metals 6010	Chloride		BGDOC	верос			Remarks	ogram SDWA RCRA
71- 6	1	0		1								X					
15/7 OCE		Conf41		1						-				+			
-000	1-1	Confus	L .	2		= 1			= 1			Х					
924	1	Conf4	3	3								X					
NCPC		Confu		U								X					
2928	1	CONF 45		5								X					
5930		CONFAL		(0								X					
932		Conf 47		7								Х					
				8													
934	-1-1-	Conf48)	a		-4						Х		-			
936		CONF 40		9								X			3, 4		
7938 V V		Conf50		10								X					
Additional Instructions		-	a:sha	r.Har	<u>ve</u>	She	KI,	SI	70,	200	2.5	40	ig,	ger	orgea	UU.	1000p
AS Seen or	lidity and auth	e one.	am aware that tampering with or intentionally me	labelling thes	ample le	cation	O K	3	Sample	es requi	ring therma	preserv	vation mu	st be rec	eived on ice the da	y they are san	npled or
ate or time of collection is cons									receive	ed packe	ed in ice at a				ess than 6 °C on sub	osequent days.	5 1
Relinquished by: (Signature)	Da	te Time 7 3:0	Received by: (Signature) Open Michille Sungels	Date 7-212	23	Time 15	500		Rece	eived	on ice:	-	ab Us	e Only	1		
telinquished by: (Signature)	Da Da		Received by: (Signature)	7.7U		Time	330	5	T1			T2			<u>T3</u>		No.
Relinquished by: (Signature)	Da		Received by: (Signature)	Date	7	Time			1.2			11			- 15		
								_	AVG	_		7					
ample Matrix: S - Soil, Sd - Solid			inless other arrangements are made. Hazar	Containe	r Type	: g -	glass,	p-p	oly/p	lastic	ag - an	ber g	lass, v	- VOA			-4

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

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

		Pa
		age
	I.	15
~		9
		7
		50

Project Information	Chain of Cu			+ L	100	22	1						1	ogram SDWA RCRA
Client: KAISON Francis DI CO Bill To		1	-04			e On					TAT		EPA Pr	ogram
Client: KNISCY Francis DI CO Project: NBL Paol #W Project Manager: AMEL Planting Glann Attention: Wescommi	nc.	Lah	WO#					er	1D	2D [Standard	CWA	SDWA
Project Manager: ALS Address:		F?	4	12	(0	2/0	122	er OC	X					
Address: 1221 State On O Cot City State 7in //		-	ببر	rtex.	~	Analy	sis and	Metho	od					RCRA
City, State, Zip Carlsbad Nym 88220 Phone: 1/2										\sim				
City, State, Zip Carls and Nim 88220 Phone: Phone: 6		15	12							1 1			State	
Email: Of braeging. Opodimon (9)		y 80.	y 80.	н	0		0.0		5			NM CO	UT AZ	TX
Report due by: LUESCOTHING.COM		30 b	30 b	/ 802	826	6010	e 300.0		S	¥		X		
Time Date Sampled Sampled Matrix No. of Containers Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride		верос	верос			Remarks	
2940 7/21 Soil 1 conf 51	11								X					
	12								X					
2942 721 Soil 1 CONF52	12								/\					
								_	-		-			
	1000000													
	- 4	-									-	-		
														- 1
	100													
						1								
		4												
									-					
											1			
Additional Instructions:														
As seen on page one. Thank You.														
, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentional	ally mislabelling the s	ample I	ocatio	n,		Sample	es requiri	ng therma	l preserv	ration me	ust be rec	ceived on ice the da	y they are sam	pled or
date or time of collection is considered fraud and may be grounds for legal action. Sampled by:	2 2 2 2 2 2					receive	ed packed	in ice at a	an avg te	mp abov	e 0 but le	ess than 6 °C on sub	sequent days.	
Relinguished by: (Signature) Date Time Received by: (Signature)	Date	22	Time						L	ab Us	e Only	/		
7/21/23 3: Ogm Michill Lung	dh 7-21.	23	15	500)	Rece	eived	on ice:	(NYN				
Relinquished by: (Signature) / Date Time Received by: (Signature)	Dete 4	2	Time											
TWichlett Garcie 1222 1830 Church		-33		30	2	<u>T1</u>			<u>T2</u>	-	-	<u>T3</u>		
Relinquished by: (Signature) Date Time Received by: (Signature)	Date		Time						4					. ()
					_	_	Tem		1_					
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other	Containe	er Type	e: g -	glass,	, p - p	oly/p	plastic,	ag - an	nber g	lass, v	- VOA			



enviroted

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.

	eceived:	07/24/23	05:30	Work Order ID: E307126
Phone: 575-725-1311 Date L	ogged In:	07/24/23	06:26	Logged In By: Alexa Michaels
Email: georgeann.goodman@wesominc.com Due Da			17:00 (0 day TAT)	
Chain of Custody (COC)				
1. Does the sample ID match the COC?		Yes		
2. Does the number of samples per sampling site location match the	COC	Yes		
3. Were samples dropped off by client or carrier?		Yes	Carrier: C	Courier
4. Was the COC complete, i.e., signatures, dates/times, requested ana	lyses?	Yes	earrer. <u>e</u>	<u> </u>
5. Were all samples received within holding time?	•	Yes		
Note: Analysis, such as pH which should be conducted in the fiel i.e, 15 minute hold time, are not included in this disucssion.	d,		ſ	Comments/Resolution
Sample Turn Around Time (TAT)				Project (NIDI Red #6) has been senerated
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		,
10. Were custody/security seals present?		No		
11. If yes, were custody/security seals intact?		NA		
 12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°± Note: Thermal preservation is not required, if samples are receive minutes of sampling 13. If no visible ice, record the temperature. Actual sample temperature. 	d w/i 15	Yes		
Sample Container	<u></u>	<u>~</u>		
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 coll	ected?	Yes		
Field Label	ceteu.	103		
20. Were field sample labels filled out with the minimum information	1.			
Sample ID?		Yes		
Date/Time Collected?		Yes	Ĺ	
Collectors name?		Yes		
Sample Preservation				
21. Does the COC or field labels indicate the samples were preserved	1?	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		
		No		
Subcontract Laboratory		1711		
	5?	NA	Subcontract Lab	v: 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: E307173

Job Number: 21022-0001

Received: 7/31/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 8/1/23

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: 8/1/23

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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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	08/01/23 16:27

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	8/1/2023 4:27:44PM

Conf 4A E307173-01

		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		102 %	70-130		07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		94.9 %	70-130		07/31/23	07/31/23	
Surrogate: Toluene-d8		103 %	70-130		07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2331001
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene		102 %	70-130		07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		94.9 %	70-130		07/31/23	07/31/23	
Surrogate: Toluene-d8		103 %	70-130		07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	KM		Batch: 2331004
Diesel Range Organics (C10-C28)	ND	25.0	1	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		112 %	50-200		07/31/23	07/31/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2331006
	632	20.0			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	8/1/2023 4:27:44PM

Conf 6A E307173-02

		200.170 02					
Analyte	Result	Reporting Limit	Dilu	tion Pi	repared	Analyzed	Notes
	mg/kg	mg/kg		Analyst: IY	-F	1 11111, 200	Batch: 2331001
Volatile Organic Compounds by EPA 8260B	ND	0.0250			7/31/23	07/31/23	Daten. 2551001
Benzene	ND ND	0.0250	1		7/31/23	07/31/23	
Ethylbenzene	ND ND	0.0250	1		7/31/23	07/31/23	
Toluene	ND ND	0.0250	1		7/31/23	07/31/23	
o-Xylene	ND ND	0.0230	1		7/31/23	07/31/23	
p,m-Xylene Total Xylenes	ND ND	0.0300	1		7/31/23	07/31/23	
Surrogate: Bromofluorobenzene	1110	103 %	70-130		7/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		98.4 %	70-130		7/31/23	07/31/23	
Surrogate: Toluene-d8		104 %	70-130	02	7/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	I	Analyst: IY			Batch: 2331001
Gasoline Range Organics (C6-C10)	ND	20.0	1	. 07	7/31/23	07/31/23	
Surrogate: Bromofluorobenzene		103 %	70-130	02	7/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		98.4 %	70-130	02	7/31/23	07/31/23	
Surrogate: Toluene-d8		104 %	70-130	02	7/31/23	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	7/31/23	07/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	. 07	7/31/23	07/31/23	
Surrogate: n-Nonane		105 %	50-200	02	7/31/23	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	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	8/1/2023 4:27:44PM

Conf 7A E307173-03

Analyte	Result	Reporting Limit		lution	Prepared	Analyzed	Notes
	mg/kg			Analyst:		7 Hidiy Zed	Batch: 2331001
Volatile Organic Compounds by EPA 8260B		mg/kg		Anaryst.	07/31/23	07/31/23	Batch: 2331001
Benzene	ND	0.0250		1			
Ethylbenzene	ND	0.0250		1	07/31/23	07/31/23	
Toluene	ND	0.0250		1	07/31/23	07/31/23	
o-Xylene	ND	0.0250		1	07/31/23	07/31/23	
p,m-Xylene	ND	0.0500		1	07/31/23	07/31/23	
Total Xylenes	ND	0.0250		1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene		98.0 %	70-130		07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		98.8 %	70-130		07/31/23	07/31/23	
Surrogate: Toluene-d8		92.0 %	70-130		07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	: IY		Batch: 2331001
Gasoline Range Organics (C6-C10)	ND	20.0		1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene		98.0 %	70-130		07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		98.8 %	70-130		07/31/23	07/31/23	
Surrogate: Toluene-d8		92.0 %	70-130		07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	: KM		Batch: 2331004
Diesel Range Organics (C10-C28)	ND	25.0		1	07/31/23	07/31/23	-
Oil Range Organics (C28-C36)	ND	50.0		1	07/31/23	07/31/23	
Surrogate: n-Nonane		111 %	50-200		07/31/23	07/31/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	: BA		Batch: 2331006
Chloride	34.1	20.0		1	07/31/23	07/31/23	



Kaiser Francis Oil Company	Project Name:	NBL Pad #6	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	8/1/2023 4:27:44PM

Conf 8A E307173-04

		E307173-04				
Analyte	Result	Reporting Limit	Dilut	tion Prepare	ed Analyzed	Notes
· ·				1	7 Hary Zed	
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: IY		Batch: 2331001
Benzene	ND	0.0250	1	07/31/2	3 07/31/23	
Ethylbenzene	ND	0.0250	1	07/31/2	3 07/31/23	
Toluene	ND	0.0250	1	07/31/2	3 07/31/23	
o-Xylene	ND	0.0250	1	07/31/2	3 07/31/23	
p,m-Xylene	ND	0.0500	1	07/31/2	3 07/31/23	
Total Xylenes	ND	0.0250	1	07/31/2	3 07/31/23	
Surrogate: Bromofluorobenzene		98.2 %	70-130	07/31/2	93 07/31/23	
Surrogate: 1,2-Dichloroethane-d4		97.4 %	70-130	07/31/2	07/31/23	
Surrogate: Toluene-d8		94.1 %	70-130	07/31/2	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	07/31/2	3 07/31/23	
Surrogate: Bromofluorobenzene		98.2 %	70-130	07/31/2	23 07/31/23	
Surrogate: 1,2-Dichloroethane-d4		97.4 %	70-130	07/31/2	23 07/31/23	
Surrogate: Toluene-d8		94.1 %	70-130	07/31/2	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	07/31/2	3 07/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/31/2	3 07/31/23	
Surrogate: n-Nonane		110 %	50-200	07/31/2	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	07/31/2	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	8/1/2023 4:27:44PM

Conf 9A E307173-05

		200.170 00				
Austra	Result	Reporting Limit	Diluti	D 1	A malama 1	Notes
Analyte	Kesuit	Limit	ווענ	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		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	A	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	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		111 %	50-200	07/31/23	07/31/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	analyst: BA		Batch: 2331006
TIMIONS BY ESTITE OUTS / SECOND						



Kaiser Francis Oil CompanyProject Name:NBL Pad #61224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Georgeann Goodman8/1/2024:27:44PM

Conf 10A E307173-06

Analyte	Result	Reporting Limit	Diluti	ion Prepared	Analyzed	Notes
				1	7 Hidly ZCu	
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		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	А	analyst: IY		Batch: 2331001
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene		107 %	70-130	07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		97.2 %	70-130	07/31/23	07/31/23	
Surrogate: Toluene-d8		102 %	70-130	07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	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		88.8 %	50-200	07/31/23	07/31/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	analyst: BA		Batch: 2331006
Chloride	26.8	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 Goodman8/1/2023 4:27:44PM

Conf 11A E307173-07

		E507175-07					
Analyte	Result	Reporting Limit	Dilu	ution	Prepared	Analyzed	Notes
Analyte	Result	Limit	Dilu	HIOH	rrepareu	Anaryzed	notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY			Batch: 2331001
Benzene	ND	0.0250	1	l	07/31/23	07/31/23	
Ethylbenzene	ND	0.0250	1	[07/31/23	07/31/23	
Toluene	ND	0.0250	1	l	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	Į	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene		101 %	70-130		07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		98.9 %	70-130		07/31/23	07/31/23	
Surrogate: Toluene-d8		104 %	70-130		07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY			Batch: 2331001
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene		101 %	70-130		07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		98.9 %	70-130		07/31/23	07/31/23	
Surrogate: Toluene-d8		104 %	70-130		07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM	Л		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		94.4 %	50-200		07/31/23	07/31/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA	Λ.		Batch: 2331006
Chloride	26.2	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 Goodman8/1/2024:27:44PM

Conf 15A E307173-08

		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: l	ΙΥ		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		100 %	70-130		07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130		07/31/23	07/31/23	
Surrogate: Toluene-d8		105 %	70-130		07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: l	ΙΥ		Batch: 2331001
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene		100 %	70-130		07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130		07/31/23	07/31/23	
Surrogate: Toluene-d8		105 %	70-130		07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: l	KM		Batch: 2331004
Diesel Range Organics (C10-C28)	89.0	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		94.2 %	50-200		07/31/23	07/31/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: l	ВА		Batch: 2331006
Chloride	1650	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 Goodman8/1/2023 4:27:44PM

Conf 16A E307173-09

	D 1	Reporting					N
Analyte	Result	Limit	Dilut	tion P	repared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	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		102 %	70-130	0	7/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		98.8 %	70-130	0	7/31/23	07/31/23	
Surrogate: Toluene-d8		103 %	70-130	0	7/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	I	Analyst: IY			Batch: 2331001
Gasoline Range Organics (C6-C10)	ND	20.0	1	0′	7/31/23	07/31/23	
Surrogate: Bromofluorobenzene		102 %	70-130	0	7/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		98.8 %	70-130	0	7/31/23	07/31/23	
Surrogate: Toluene-d8		103 %	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)	98.1	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		96.5 %	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	1430	20.0	1	0'	7/31/23	07/31/23	



Kaiser Francis Oil CompanyProject Name:NBL Pad #61224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Georgeann Goodman8/1/2023 4:27:44PM

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	8/1/2023 4:27:44PM

Conf 24A E307173-11

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Kaiser Francis Oil CompanyProject Name:NBL Pad #61224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Georgeann Goodman8/1/2023 4:27:44PM

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	8/1/2023 4:27:44PM

Conf 34A E307173-13

		2007170 10					
Analyte	Result	Reporting Limit		lution	Prepared	Analyzed	Notes
	mg/kg	mg/kg		Analyst		7 Hidiy Zed	Batch: 2331001
Volatile Organic Compounds by EPA 8260B	ND	0.0250		1	07/31/23	07/31/23	Batch. 2551001
Benzene	ND ND	0.0250		1	07/31/23	07/31/23	
Ethylbenzene				1	07/31/23	07/31/23	
Toluene	ND	0.0250		1	07/31/23	07/31/23	
o-Xylene	ND	0.0250		1			
p,m-Xylene	ND	0.0500		1	07/31/23	07/31/23	
Total Xylenes	ND	0.0250		1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene		105 %	70-130		07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		95.0 %	70-130		07/31/23	07/31/23	
Surrogate: Toluene-d8		104 %	70-130		07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: IY		Batch: 2331001
Gasoline Range Organics (C6-C10)	ND	20.0		1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene		105 %	70-130		07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		95.0 %	70-130		07/31/23	07/31/23	
Surrogate: Toluene-d8		104 %	70-130		07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: KM		Batch: 2331004
Diesel Range Organics (C10-C28)	ND	25.0		1	07/31/23	07/31/23	
Oil Range Organics (C28-C36)	ND	50.0		1	07/31/23	07/31/23	
Surrogate: n-Nonane		94.1 %	50-200		07/31/23	07/31/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: BA		Batch: 2331006
Chloride	736	20.0		1	07/31/23	07/31/23	



Kaiser Francis Oil CompanyProject Name:NBL Pad #61224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Georgeann Goodman8/1/2023 4:27:44PM

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 CompanyProject Name:NBL Pad #61224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Georgeann Goodman8/1/2023 4:27:44PM

Conf 40A E307173-15

		200.170 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		104 %	70-130		07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130		07/31/23	07/31/23	
Surrogate: Toluene-d8		103 %	70-130		07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2331001
Gasoline Range Organics (C6-C10)	ND	20.0		1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene		104 %	70-130		07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130		07/31/23	07/31/23	
Surrogate: Toluene-d8		103 %	70-130		07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	KM		Batch: 2331004
Diesel Range Organics (C10-C28)	ND	25.0		1	07/31/23	07/31/23	
Oil Range Organics (C28-C36)	ND	50.0		1	07/31/23	07/31/23	
Surrogate: n-Nonane		95.2 %	50-200		07/31/23	07/31/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2331006
Chloride	715	20.0		1	07/31/23	07/31/23	



Kaiser Francis Oil CompanyProject Name:NBL Pad #61224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Georgeann Goodman8/1/2023 4:27:44PM

Conf 41A E307173-16

		Reporting				
Analyte	Result	Limit	Diluti	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	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		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	A	nalyst: 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	A	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		94.4 %	50-200	07/31/23	07/31/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: 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 Goodman8/1/2023 4:27:44PM

Conf 49A E307173-17

		E30/1/3-1/					
	D 1	Reporting		.•	D 1		N .
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	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		100 %	70-130		07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		07/31/23	07/31/23	
Surrogate: Toluene-d8		93.3 %	70-130		07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2331001
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene		100 %	70-130		07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		07/31/23	07/31/23	
Surrogate: Toluene-d8		93.3 %	70-130		07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	KM		Batch: 2331004
Diesel Range Organics (C10-C28)	ND	25.0	1	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		91.9 %	50-200		07/31/23	07/31/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2331006
Chloride	44.6	20.0	1	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	8/1/2023 4:27:44PM

Conf 50A E307173-18

		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		101 %	70-130		07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		99.6 %	70-130		07/31/23	07/31/23	
Surrogate: Toluene-d8		94.1 %	70-130		07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2331001
Gasoline Range Organics (C6-C10)	ND	20.0		1	07/31/23	07/31/23	
Surrogate: Bromofluorobenzene		101 %	70-130		07/31/23	07/31/23	
Surrogate: 1,2-Dichloroethane-d4		99.6 %	70-130		07/31/23	07/31/23	
Surrogate: Toluene-d8		94.1 %	70-130		07/31/23	07/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	KM		Batch: 2331004
Diesel Range Organics (C10-C28)	ND	25.0		1	07/31/23	07/31/23	_
Oil Range Organics (C28-C36)	ND	50.0		1	07/31/23	07/31/23	
Surrogate: n-Nonane		93.1 %	50-200		07/31/23	07/31/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2331006
Chloride	34.3	20.0		1	07/31/23	07/31/23	



QC Summary Data Kaiser Francis Oil Company NBL Pad #6 Project Name: Reported: 1224 Standpipe Rd Project Number: 21022-0001 Carlsbad NM, 88220 Project Manager: Georgeann Goodman 8/1/2023 4:27:44PM Volatile Organic Compounds by EPA 8260B Analyst: IY Spike Source RPD Reporting Rec Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2331001-BLK1) Prepared: 07/31/23 Analyzed: 07/31/23 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND 0.0250 o-Xylene ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: Bromofluorobenzene 0.502 0.500 100 70-130 Surrogate: 1,2-Dichloroethane-d4 0.489 0.500 97.7 70-130 0.500 103 70-130 Surrogate: Toluene-d8 0.517 LCS (2331001-BS1) Prepared: 07/31/23 Analyzed: 07/31/23 2.49 0.0250 2.50 99.4 70-130 Benzene 70-130 2.35 2.50 94.0 0.0250 Ethylbenzene Toluene 2.43 0.0250 2.50 97.1 70-130 2.46 2.50 98.6 70-130 0.0250 o-Xylene 97.2 4.86 5.00 70-130 p,m-Xylene 0.0500 7.33 0.0250 7.50 97.7 70-130 Total Xylenes Surrogate: Bromofluorobenzene 0.515 0.500 103 70-130 0.481 0.500 96.1 70-130 Surrogate: 1,2-Dichloroethane-d4 Surrogate: Toluene-d8 0.500 70-130 0.517

Matrix Spike (2331001-MS1)					E307173-	07	Prepared: 07/31/23 Analyzed: 07/31/23
Benzene	2.62	0.0250	2.50	ND	105	48-131	
Ethylbenzene	2.48	0.0250	2.50	ND	99.2	45-135	
Toluene	2.57	0.0250	2.50	ND	103	48-130	
o-Xylene	2.67	0.0250	2.50	ND	107	43-135	
p,m-Xylene	5.27	0.0500	5.00	ND	105	43-135	
Total Xylenes	7.94	0.0250	7.50	ND	106	43-135	
Surrogate: Bromofluorobenzene	0.525		0.500		105	70-130	
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.3	70-130	
Surrogate: Toluene-d8	0.517		0.500		103	70-130	

Matrix Spike Dup (2331001-MSD1)				Source:	E307173-	07	Prepared: 07	7/31/23 Analyzed: 07/31/23
Benzene	2.60	0.0250	2.50	ND	104	48-131	0.575	23
Ethylbenzene	2.52	0.0250	2.50	ND	101	45-135	1.52	27
Toluene	2.57	0.0250	2.50	ND	103	48-130	0.0390	24
o-Xylene	2.54	0.0250	2.50	ND	102	43-135	4.91	27
p,m-Xylene	5.06	0.0500	5.00	ND	101	43-135	4.01	27
Total Xylenes	7.61	0.0250	7.50	ND	101	43-135	4.31	27
Surrogate: Bromofluorobenzene	0.510		0.500		102	70-130		
Surrogate: 1,2-Dichloroethane-d4	0.524		0.500		105	70-130		
Surrogate: Toluene-d8	0.515		0.500		103	70-130		

Surrogate: Toluene-d8

0.529

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:		ozz-0001 eorgeann Good	lman				8/1/2023 4:27:44PM
	Nor	nhalogenated O	rganics l	oy EPA 801	5D - GF	RO			Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limi	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2331001-BLK1)							Prepared: 0'	7/31/23	Analyzed: 07/31/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.502		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.7	70-130			
Surrogate: Toluene-d8	0.517		0.500		103	70-130			
LCS (2331001-BS2)							Prepared: 0'	7/31/23	Analyzed: 07/31/23
Gasoline Range Organics (C6-C10)	55.5	20.0	50.0		111	70-130			
Surrogate: Bromofluorobenzene	0.531		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.476		0.500		95.1	70-130			
Surrogate: Toluene-d8	0.514		0.500		103	70-130			
Matrix Spike (2331001-MS2)				Source:	E307173-0	7	Prepared: 0'	7/31/23	Analyzed: 07/31/23
Gasoline Range Organics (C6-C10)	64.2	20.0	50.0	ND	128	70-130			
Surrogate: Bromofluorobenzene	0.542		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.467		0.500		93.4	70-130			
Surrogate: Toluene-d8	0.526		0.500		105	70-130			
Matrix Spike Dup (2331001-MSD2)				Source: 1	E307173-0	7	Prepared: 0'	7/31/23	Analyzed: 07/31/23
Gasoline Range Organics (C6-C10)	66.4	20.0	50.0	ND	133	70-130	3.45	20	Ml
Surrogate: Bromofluorobenzene	0.544		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		95.9	70-130			

0.500

106

70-130



QC Summary Data

Kaiser Francis Oil CompanyProject Name:NBL Pad #6Reported:1224 Standpipe RdProject Number:21022-0001Carlsbad NM, 88220Project Manager:Georgeann Goodman8/1/2023 4:27:44PM

Carisbad Nivi, 88220		Project Manager	r: Ge	orgeann Good	uman				6/1/2023 4.2/.44FW
	Nonha	logenated Or	ganics by l	EPA 8015E) - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2331004-BLK1)							Prepared: 0	7/31/23 A	nalyzed: 07/31/23
iesel Range Organics (C10-C28)	ND	25.0							
il Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	52.4		50.0		105	50-200			
CS (2331004-BS1)							Prepared: 0	7/31/23 A	nalyzed: 07/31/23
iesel Range Organics (C10-C28)	255	25.0	250		102	38-132			
urrogate: n-Nonane	49.4		50.0		98.9	50-200			
Aatrix Spike (2331004-MS1)				Source:	E307173-0	08	Prepared: 0	7/31/23 A	nalyzed: 07/31/23
iesel Range Organics (C10-C28)	336	25.0	250	89.0	98.8	38-132			
urrogate: n-Nonane	49.7		50.0		99.4	50-200			
Iatrix Spike Dup (2331004-MSD1)				Source:	E307173-0	08	Prepared: 0	7/31/23 A	nalyzed: 07/31/23
iesel Range Organics (C10-C28)	327	25.0	250	89.0	95.1	38-132	2.81	20	

Matrix Spike Dup (2331006-MSD1)

Chloride

944

QC Summary Data

Kaiser Francis Oil Company 1224 Standpipe Rd		Project Name: Project Number	: 2	NBL Pad #6 1022-0001	1				Reported:		
Carlsbad NM, 88220		Project Manager: Georgeann Goodman Anions by EPA 300.0/9056A							8/1/2023 4:27:44PM 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 (2331006-BLK1)	mg ng				70				nalyzed: 07/31/23		
Chloride	ND	20.0					Trepared. 0	7/31/23 711	lary20a. 07/31/23		
LCS (2331006-BS1)							Prepared: 0	7/31/23 Ar	nalyzed: 07/31/23		
Chloride	251	20.0	250		100	90-110					
Matrix Spike (2331006-MS1)				Source:	E307173-	01	Prepared: 0	7/31/23 Ar	nalyzed: 07/31/23		
Chloride	918	20.0	250	632	114	80-120					

250

20.0

Source: E307173-01

125

80-120

2.77

632

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: 07/31/23 Analyzed: 07/31/23

20

M2

Definitions and Notes

ſ	Kaiser Francis Oil Company	Project Name:	NBL Pad #6	
l	1224 Standpipe Rd	Project Number:	21022-0001	Reported:
١	Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	08/01/23 16:27

M1 Matrix spike recovery was above acceptance limits. The associated LCS spike recovery was acceptable.

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

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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



Project Informati					Chain of Cu	ıstody		PU	¥(5006	P					Page _	_ of
Client: Kalse Project: NBL Project Manager Address: City, State, Zip	Jung	ncis #10 pann	0.1 Co	Attention: WSCOM Address: 1224 Standpy City, State, Zip Carl Shad Phone: 5757251311	pe Rd Nom	Lab E		Lai	b Use	ob N	y Number 7Z-000 Sis and Meth	1D X		TAT D St	andard	EPA Pr CWA	Page	
Phone: Email: Report due by:	/			goodman Dwes		RO by 8015	GRO/DRO by 8015	y 8021	8260	6010	Chloride 300.0	MN	¥		NM CO	State UT AZ	ТХ	
Time Date Sampled Sampled	Matrix	No. of Containers	Sample ID		Lab Number	DRO/ORO by	GRO/D	BTEX by 8021	VOC by 8260	Metals 6010	Chlorid	BGDOC	всрос		/	Remarks		
522 7/27	S	1	Conf 4 F	+	1							X						
536 7/2	S	1	Conf us		2							X						
1881 7/27	S	1	Conf 71		3							X						
1534 7/27	S	1	Conf 8 k		4							X						
1539 7/27	S	1	conf 9 x		5							X						
1545 7/27	S	1	Conf 10		6							V						
1549 7/27		1	Conf 11		7							X						
434 7/27		1	Conf 15		8							x						
1420 7/27	5	i	COFF 14		9							X						
	5	i			10							×						
, (field sampler), attest	to the validity	and auther	escomine.	general designation of the state of the stat	wesco	mi	nc		310	ample:	Showe s requiring therm d packed in ice at						om ppled or	
Relinquished by: (Sig	nature)	Date	2-7/23 849	Received by: (Signature) Received by: (Signature) Received by: (Signature)	7-28- Date 7-28		Time	74C			eived on ice	6	ab Use)/ N	Only	Ta			
Relinguished by: (Sig	nature)	Date		Received by Gignature	Date 7/31/	13	Time 7	15		T1 AVG	Temp °C	4			<u>T3</u>			
Sample Matrix: S - Soil, Note: Samples are d				unless other arrangements are made. Hazai	Containe						lastic, ag - ar disposed of at				ne report for	the analysi	s 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.



2	of 2
ım WA	eived by OCD: 8/18/2023 9:54:55 AM
RA)CD: 8
	18/202
	3 9:54:
	:55 AM

Λ			1	40	井(-51	exc	6						
Client: Kalser Marrus OI Co Bill To						se On	ly				TA	T	EPA P	rogram
Project: NBL Pad (o Attention: USSCOM		Lab	WO#				Number	-1	1D	2D	3D	Standard	CWA	SDWA
Address: Address: Address: Address: Address: City, State, Zip Culls State	210e	E	307	17:	5_		22-OC		X	100	1			
Address: City, State, Zip Caustad	MI					Analy:	sis and N	letho	1					RCRA
City, State, Zip Phone: \$75 13 11													Charles	
Phone: Email:		8015	8015				_					NIMAL CC	State O UT AZ	TTVI
Report due by:		þ	by 8	3021	260	010	300.0		ΣN	×		X	J UT AZ	TX
Time Date Matrix No. of Containers Sample ID	Lab Number	DRO/ORO	GRO/DRO by	BTEX by 802	VOC by 8260	Metals 6010	Chloride 300.0		верос	36000			Remark	5
202 7/27 5 1 CONF 24 A	11		Ī						×					
200 2/27 5 1 Conf 24 A	12								x					
1500 7 27 S 1 Conf 34 A	13								Х					
1504 7/27 S 1 Conf 35 A	14								X					
1510 7/27 5 1 Conf 40 A	15								X					
1515 7/27 S 1 Conf 41 A	16								X					
15567/27 5 1 Conf 49 A	17								X					
1539 7/27 5 1 Conf 50 A	18								×					
Additional Instructions: Dease see page one. Two	K YOU				_									
date or time of collection is considered frauda play the graph of flegal action. Sampled by:	islabelling the sa	ample	location	n,		127 - 173 17						eceived on ice the less than 6 °C on s		
Relinquished by: (Signature) Date 13 Time Received by: (Signature) Wicklift Guy 1	7-28-6	23	Time /C)40)	Rece	ived on	ice:		b Us	e Onl	ly		
Relinquising b): (Signature) Date Time Received by: (Signature) Mysse 1700 Mysse	Date 7. 29	12	Time	73	00	T1			<u>T2</u>			T3		
Relinquished by: (Signature) Date 7.29-23 Received by: (Separture) Received by: (Separture) Received by: (Separture)	- 7/31/	23	7	19	5		Temp °							
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other	Containe													
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Haza above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory with this COC.										ent exp	pense.	The report fo	or the analy:	sis of the

ne client expense. The report for the analysis of the ent.

environment of the analysis of the ent.

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.

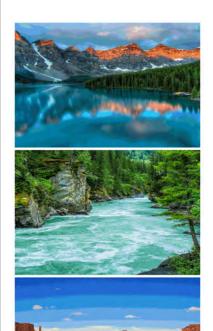
Client:	Kaiser Francis Oil Company	Date Received:	07/31/23	07:15		Work Order ID:	E307173
Phone:	575-725-1311	Date Logged In:	07/28/23	15:23		Logged In By:	Caitlin Mars
Email:	georgeann.goodman@wesominc.com	Due Date:		17:00 (0 day TAT)		,	
Chain of	Custody (COC)						
1. Does th	ne sample ID match the COC?		Yes				
2. Does th	ne number of samples per sampling site location ma	tch the COC	Yes				
3. Were sa	amples dropped off by client or carrier?		Yes	Carrier: C	Courier		
4. Was the	e COC complete, i.e., signatures, dates/times, reques	sted analyses?	Yes	_			
5. Were al	Il samples received within holding time?		Yes				
	Note: Analysis, such as pH which should be conducted in					Comment	s/Resolution
C1- T	i.e, 15 minute hold time, are not included in this disucssi	on.		1		Сонисис	STATES OF THE STATE OF THE STAT
	Urn Around Time (TAT)		Yes				
	COC indicate standard TAT, or Expedited TAT?		168				
Sample C			Voc				
	sample cooler received? was cooler received in good condition?		Yes				
• •	G		Yes				
	e sample(s) received intact, i.e., not broken?		Yes				
	custody/security seals present?		No				
11. If yes,	were custody/security seals intact?		NA				
12. Was the	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples ar minutes of sampling		Yes				
13. If no v	visible ice, record the temperature. Actual sample	temperature: 4°0	<u>C</u>				
Sample C	Container						
	queous VOC samples present?		No				
15. Are V	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers	?	Yes				
	appropriate volume/weight or number of sample contain		Yes				
Field Lab	· · ·						
	— field sample labels filled out with the minimum info	ormation:					
	ample ID?		Yes				
	ate/Time Collected?		Yes				
	ollectors name?		Yes				
-	reservation						
	the COC or field labels indicate the samples were pr	reserved?	No				
	ample(s) correctly preserved?	. 1.0	NA				
	filteration required and/or requested for dissolved n	netals?	No				
	se Sample Matrix						
	the sample have more than one phase, i.e., multipha		No				
27. If yes,	does the COC specify which phase(s) is to be analy	yzed?	NA				
Subcontr	act Laboratory						
28. Are sa	imples required to get sent to a subcontract laborato	ry?	No				
29. Was a	subcontract laboratory specified by the client and is	f so who?	NA	Subcontract Lab	o: na		
Client In	astruction_						

Date

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: E308056

Job Number: 21022-0001

Received: 8/10/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 8/11/23

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: 8/11/23

Georgeann Goodman 1224 Standpipe Rd Carlsbad, NM 88220

Project Name: NBL Pad #6

Workorder: E308056

Date Received: 8/10/2023 7:00:00AM

Georgeann Goodman,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/10/2023 7:00:00AM, 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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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	08/11/23 14:55

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Conf 01A	E308056-01A	Soil	08/07/23	08/10/23	Glass Jar, 2 oz.
Conf 02A	E308056-02A	Soil	08/07/23	08/10/23	Glass Jar, 2 oz.
Conf 03A	E308056-03A	Soil	08/07/23	08/10/23	Glass Jar, 2 oz.
Conf 05A	E308056-04A	Soil	08/07/23	08/10/23	Glass Jar, 2 oz.
Conf 12A	E308056-05A	Soil	08/07/23	08/10/23	Glass Jar, 2 oz.
Conf 13A	E308056-06A	Soil	08/07/23	08/10/23	Glass Jar, 2 oz.
Conf 14A	E308056-07A	Soil	08/07/23	08/10/23	Glass Jar, 2 oz.
Conf 17A	E308056-08A	Soil	08/07/23	08/10/23	Glass Jar, 2 oz.
Conf 18A	E308056-09A	Soil	08/07/23	08/10/23	Glass Jar, 2 oz.
Conf 19A	E308056-10A	Soil	08/07/23	08/10/23	Glass Jar, 2 oz.
Conf 23A	E308056-11A	Soil	08/07/23	08/10/23	Glass Jar, 2 oz.
Conf 25A	E308056-12A	Soil	08/07/23	08/10/23	Glass Jar, 2 oz.
Conf 27A	E308056-13A	Soil	08/07/23	08/10/23	Glass Jar, 2 oz.
Conf 28A	E308056-14A	Soil	08/07/23	08/10/23	Glass Jar, 2 oz.
Conf 29A	E308056-15A	Soil	08/07/23	08/10/23	Glass Jar, 2 oz.
Conf 30A	E308056-16A	Soil	08/07/23	08/10/23	Glass Jar, 2 oz.
Conf 31A	E308056-17A	Soil	08/07/23	08/10/23	Glass Jar, 2 oz.
Conf 32A	E308056-18A	Soil	08/07/23	08/10/23	Glass Jar, 2 oz.
Conf 33A	E308056-19A	Soil	08/07/23	08/10/23	Glass Jar, 2 oz.
Conf 37A	E308056-20A	Soil	08/07/23	08/10/23	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	8/11/2023 2:55:16PM

Conf 01A E308056-01

		E309030-01					
		Reporting					
Analyte	Result	Limit	Dili	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	: IY		Batch: 2332061
Benzene	ND	0.0250		1	08/09/23	08/10/23	
Ethylbenzene	ND	0.0250		1	08/09/23	08/10/23	
Toluene	ND	0.0250		1	08/09/23	08/10/23	
o-Xylene	ND	0.0250		1	08/09/23	08/10/23	
p,m-Xylene	ND	0.0500		1	08/09/23	08/10/23	
Total Xylenes	ND	0.0250		1	08/09/23	08/10/23	
Surrogate: Bromofluorobenzene		106 %	70-130		08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		08/09/23	08/10/23	
Surrogate: Toluene-d8		97.6 %	70-130		08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	: IY		Batch: 2332061
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/09/23	08/10/23	
Surrogate: Bromofluorobenzene		106 %	70-130		08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		08/09/23	08/10/23	
Surrogate: Toluene-d8		97.6 %	70-130		08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	: KM		Batch: 2332060
Diesel Range Organics (C10-C28)	ND	25.0		1	08/09/23	08/10/23	
Oil Range Organics (C28-C36)	ND	50.0		1	08/09/23	08/10/23	
Surrogate: n-Nonane		99.7 %	50-200		08/09/23	08/10/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	: BA		Batch: 2332070
Chloride	55.0	20.0		1	08/09/23	08/10/23	



Kaiser Francis Oil CompanyProject Name:NBL Pad #61224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Georgeann Goodman8/11/20232:55:16PM

Conf 02A E308056-02

		E500050-02					
		Reporting					
Analyte	Result	Limit	Dilut	tion Prep	ared Aı	nalyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	I	Analyst: IY			Batch: 2332061
Benzene	ND	0.0250	1	08/0	9/23 08	3/10/23	
Ethylbenzene	ND	0.0250	1	08/0	9/23 08	3/10/23	
Toluene	ND	0.0250	1	08/0	9/23 08	3/10/23	
p-Xylene	ND	0.0250	1	08/0	9/23 08	3/10/23	
o,m-Xylene	ND	0.0500	1	08/0	9/23 08	3/10/23	
Total Xylenes	ND	0.0250	1	08/0	9/23 08	3/10/23	
Surrogate: Bromofluorobenzene		106 %	70-130	08/0	9/23 08	8/10/23	
Surrogate: 1,2-Dichloroethane-d4		99.4 %	70-130	08/0	9/23 08	8/10/23	
Surrogate: Toluene-d8		97.9 %	70-130	08/0	9/23 08	8/10/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: IY			Batch: 2332061
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/0	9/23 08	8/10/23	
Surrogate: Bromofluorobenzene		106 %	70-130	08/0	9/23 08	8/10/23	
Surrogate: 1,2-Dichloroethane-d4		99.4 %	70-130	08/0	9/23 08	8/10/23	
Surrogate: Toluene-d8		97.9 %	70-130	08/0	9/23 08	8/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: KM			Batch: 2332060
Diesel Range Organics (C10-C28)	39.6	25.0	1	08/0	9/23 08	3/10/23	-
Oil Range Organics (C28-C36)	ND	50.0	1	08/0	9/23 08	8/10/23	
Surrogate: n-Nonane		101 %	50-200	08/0	9/23 08	8/10/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA			Batch: 2332070
Chloride	197	20.0	1	08/0		3/10/23	•



Kaiser Francis Oil CompanyProject Name:NBL Pad #61224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Georgeann Goodman8/11/20232:55:16PM

Conf 03A E308056-03

		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY			Batch: 2332061
Benzene	ND	0.0250	1	l	08/09/23	08/10/23	
Ethylbenzene	ND	0.0250	1	l	08/09/23	08/10/23	
Toluene	ND	0.0250	1	l	08/09/23	08/10/23	
o-Xylene	ND	0.0250	1	l	08/09/23	08/10/23	
p,m-Xylene	ND	0.0500	1	l	08/09/23	08/10/23	
Total Xylenes	ND	0.0250	1	[08/09/23	08/10/23	
Surrogate: Bromofluorobenzene		107 %	70-130		08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4		97.3 %	70-130		08/09/23	08/10/23	
Surrogate: Toluene-d8		99.9 %	70-130		08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2332061
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	08/09/23	08/10/23	
Surrogate: Bromofluorobenzene		107 %	70-130		08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4		97.3 %	70-130		08/09/23	08/10/23	
Surrogate: Toluene-d8		99.9 %	70-130		08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	KM		Batch: 2332060
Diesel Range Organics (C10-C28)	ND	25.0	1	1	08/09/23	08/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	[08/09/23	08/10/23	
Surrogate: n-Nonane		101 %	50-200		08/09/23	08/10/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2332070
Chloride	99.9	20.0	1		08/09/23	08/10/23	

Kaiser Francis Oil CompanyProject Name:NBL Pad #61224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Georgeann Goodman8/11/20232:55:16PM

Conf 05A E308056-04

		E300030-04					
Analyte	Result	Reporting Limit	Dib	ıtion	Prepared	Analyzed	Notes
Anaryce	Result	Limit	Dire	ation	Trepared	Maryzed	Tioles
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2332061
Benzene	ND	0.0250		1	08/09/23	08/10/23	
Ethylbenzene	ND	0.0250		1	08/09/23	08/10/23	
Toluene	ND	0.0250		1	08/09/23	08/10/23	
o-Xylene	ND	0.0250		1	08/09/23	08/10/23	
p,m-Xylene	ND	0.0500		1	08/09/23	08/10/23	
Total Xylenes	ND	0.0250		1	08/09/23	08/10/23	
Surrogate: Bromofluorobenzene		107 %	70-130		08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4		99.5 %	70-130		08/09/23	08/10/23	
Surrogate: Toluene-d8		98.4 %	70-130		08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2332061
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/09/23	08/10/23	
Surrogate: Bromofluorobenzene		107 %	70-130		08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4		99.5 %	70-130		08/09/23	08/10/23	
Surrogate: Toluene-d8		98.4 %	70-130		08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	KM		Batch: 2332060
Diesel Range Organics (C10-C28)	ND	25.0		1	08/09/23	08/10/23	
Oil Range Organics (C28-C36)	ND	50.0		1	08/09/23	08/10/23	
Surrogate: n-Nonane		101 %	50-200		08/09/23	08/10/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2332070
Chloride	85.5	20.0		1	08/09/23	08/10/23	



Kaiser Francis Oil CompanyProject Name:NBL Pad #61224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Georgeann Goodman8/11/20232:55:16PM

Conf 12A E308056-05

		20000000					
Analyte	Result	Reporting Limit		ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:			Batch: 2332061
Benzene	ND	0.0250		1	08/09/23	08/10/23	Batem 2502001
Ethylbenzene	ND	0.0250		1	08/09/23	08/10/23	
Toluene	ND	0.0250		1	08/09/23	08/10/23	
o-Xylene	ND	0.0250		1	08/09/23	08/10/23	
p,m-Xylene	ND	0.0500		1	08/09/23	08/10/23	
Total Xylenes	ND	0.0250		1	08/09/23	08/10/23	
Surrogate: Bromofluorobenzene		109 %	70-130		08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4		98.3 %	70-130		08/09/23	08/10/23	
Surrogate: Toluene-d8		98.4 %	70-130		08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2332061
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/09/23	08/10/23	
Surrogate: Bromofluorobenzene		109 %	70-130		08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4		98.3 %	70-130		08/09/23	08/10/23	
Surrogate: Toluene-d8		98.4 %	70-130		08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	KM		Batch: 2332060
Diesel Range Organics (C10-C28)	ND	25.0		1	08/09/23	08/10/23	
Oil Range Organics (C28-C36)	ND	50.0		1	08/09/23	08/10/23	
Surrogate: n-Nonane		100 %	50-200		08/09/23	08/10/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2332070
Chloride	105	20.0		1	08/09/23	08/10/23	



Kaiser Francis Oil CompanyProject Name:NBL Pad #61224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Georgeann Goodman8/11/20232:55:16PM

Conf 13A E308056-06

	_	Reporting	_				
Analyte	Result	Limit	Dilı	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2332061
Benzene	ND	0.0250		1	08/09/23	08/10/23	
Ethylbenzene	ND	0.0250		1	08/09/23	08/10/23	
Toluene	ND	0.0250		1	08/09/23	08/10/23	
o-Xylene	ND	0.0250		1	08/09/23	08/10/23	
p,m-Xylene	ND	0.0500		1	08/09/23	08/10/23	
Total Xylenes	ND	0.0250		1	08/09/23	08/10/23	
Surrogate: Bromofluorobenzene		106 %	70-130		08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4		98.1 %	70-130		08/09/23	08/10/23	
Surrogate: Toluene-d8		98.0 %	70-130		08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2332061
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/09/23	08/10/23	
Surrogate: Bromofluorobenzene		106 %	70-130		08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4		98.1 %	70-130		08/09/23	08/10/23	
Surrogate: Toluene-d8		98.0 %	70-130		08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	KM		Batch: 2332060
Diesel Range Organics (C10-C28)	ND	25.0		1	08/09/23	08/10/23	
Oil Range Organics (C28-C36)	ND	50.0		1	08/09/23	08/10/23	
Surrogate: n-Nonane		94.2 %	50-200		08/09/23	08/10/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2332070
Chloride	33.0	20.0		1	08/09/23	08/10/23	



Kaiser Francis Oil CompanyProject Name:NBL Pad #61224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Georgeann Goodman8/11/20232:55:16PM

Conf 14A E308056-07

		20000001					
Analyte	Result	Reporting Limit		ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:			Batch: 2332061
Benzene	ND	0.0250		1	08/09/23	08/10/23	Baten: 2552001
Ethylbenzene	ND	0.0250		1	08/09/23	08/10/23	
Toluene	ND	0.0250		1	08/09/23	08/10/23	
o-Xylene	ND	0.0250		1	08/09/23	08/10/23	
p,m-Xylene	ND	0.0500		1	08/09/23	08/10/23	
Total Xylenes	ND	0.0250		1	08/09/23	08/10/23	
Surrogate: Bromofluorobenzene		105 %	70-130		08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4		95.7 %	70-130		08/09/23	08/10/23	
Surrogate: Toluene-d8		98.6 %	70-130		08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	: IY		Batch: 2332061
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/09/23	08/10/23	
Surrogate: Bromofluorobenzene		105 %	70-130		08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4		95.7 %	70-130		08/09/23	08/10/23	
Surrogate: Toluene-d8		98.6 %	70-130		08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	KM		Batch: 2332060
Diesel Range Organics (C10-C28)	ND	25.0		1	08/09/23	08/10/23	
Oil Range Organics (C28-C36)	ND	50.0		1	08/09/23	08/10/23	
Surrogate: n-Nonane		98.9 %	50-200		08/09/23	08/10/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2332070
Chloride	213	20.0		1	08/09/23	08/10/23	



Kaiser Francis Oil CompanyProject Name:NBL Pad #61224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Georgeann Goodman8/11/20232:55:16PM

Conf 17A E308056-08

		E500050-00					
Analyte	Result	Reporting Limit	Dilut	tion	Prepared	Analyzed	Notes
Maryte						Amaryzed	
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst: IY			Batch: 2332061
Benzene	ND	0.0250	1		08/09/23	08/10/23	
Ethylbenzene	ND	0.0250	1		08/09/23	08/10/23	
Toluene	ND	0.0250	1		08/09/23	08/10/23	
o-Xylene	ND	0.0250	1		08/09/23	08/10/23	
p,m-Xylene	ND	0.0500	1		08/09/23	08/10/23	
Total Xylenes	ND	0.0250	1		08/09/23	08/10/23	
Surrogate: Bromofluorobenzene		106 %	70-130		08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4		98.8 %	70-130		08/09/23	08/10/23	
Surrogate: Toluene-d8		98.4 %	70-130		08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: IY	7		Batch: 2332061
Gasoline Range Organics (C6-C10)	ND	20.0	1		08/09/23	08/10/23	
Surrogate: Bromofluorobenzene		106 %	70-130		08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4		98.8 %	70-130		08/09/23	08/10/23	
Surrogate: Toluene-d8		98.4 %	70-130		08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: K	M		Batch: 2332060
Diesel Range Organics (C10-C28)	ND	25.0	1		08/09/23	08/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1		08/09/23	08/10/23	
Surrogate: n-Nonane		100 %	50-200		08/09/23	08/10/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: B	A		Batch: 2332070
Chloride	64.1	20.0	1		08/09/23	08/10/23	



Kaiser Francis Oil CompanyProject Name:NBL Pad #61224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Georgeann Goodman8/11/20232:55:16PM

Conf 18A E308056-09

		Reporting				
Analyte	Result	Limit	Diluti	on Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	.nalyst: IY		Batch: 2332061
Benzene	ND	0.0250	1	08/09/23	08/10/23	
Ethylbenzene	ND	0.0250	1	08/09/23	08/10/23	
Toluene	ND	0.0250	1	08/09/23	08/10/23	
o-Xylene	ND	0.0250	1	08/09/23	08/10/23	
p,m-Xylene	ND	0.0500	1	08/09/23	08/10/23	
Total Xylenes	ND	0.0250	1	08/09/23	08/10/23	
Surrogate: Bromofluorobenzene		108 %	70-130	08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4		97.1 %	70-130	08/09/23	08/10/23	
Surrogate: Toluene-d8		98.7 %	70-130	08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	nalyst: IY		Batch: 2332061
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/09/23	08/10/23	
Surrogate: Bromofluorobenzene		108 %	70-130	08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4		97.1 %	70-130	08/09/23	08/10/23	
Surrogate: Toluene-d8		98.7 %	70-130	08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	nalyst: KM		Batch: 2332060
Diesel Range Organics (C10-C28)	ND	25.0	1	08/09/23	08/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/23	08/10/23	
Surrogate: n-Nonane		100 %	50-200	08/09/23	08/10/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: BA		Batch: 2332070
Chloride	279	20.0	1	08/09/23	08/10/23	

Kaiser Francis Oil CompanyProject Name:NBL Pad #61224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Georgeann Goodman8/11/20232:55:16PM

Conf 19A E308056-10

		200000010					
Analyte	Result	Reporting Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY			Batch: 2332061
Benzene	ND	0.0250	1		08/09/23	08/10/23	Batch. 2552001
Ethylbenzene	ND	0.0250	1		08/09/23	08/10/23	
Toluene	ND	0.0250	1		08/09/23	08/10/23	
o-Xylene	ND	0.0250	1		08/09/23	08/10/23	
p,m-Xylene	ND	0.0500	1		08/09/23	08/10/23	
Total Xylenes	ND	0.0250	1		08/09/23	08/10/23	
Surrogate: Bromofluorobenzene		105 %	70-130		08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4		98.5 %	70-130		08/09/23	08/10/23	
Surrogate: Toluene-d8		99.3 %	70-130		08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: IY			Batch: 2332061
Gasoline Range Organics (C6-C10)	ND	20.0	1		08/09/23	08/10/23	
Surrogate: Bromofluorobenzene		105 %	70-130		08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4		98.5 %	70-130		08/09/23	08/10/23	
Surrogate: Toluene-d8		99.3 %	70-130		08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: KN	1		Batch: 2332060
Diesel Range Organics (C10-C28)	ND	25.0	1		08/09/23	08/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	<u> </u>	08/09/23	08/10/23	
Surrogate: n-Nonane		101 %	50-200		08/09/23	08/10/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: BA	L		Batch: 2332070
Chloride	165	20.0	1		08/09/23	08/10/23	



Kaiser Francis Oil CompanyProject Name:NBL Pad #61224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Georgeann Goodman8/11/20232:55:16PM

Conf 23A E308056-11

		E300030-11					
A 1.	D 1	Reporting		<i>.</i> ·	D 1		N
Analyte	Result	Limit	Dilu	ition	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2332061
Benzene	ND	0.0250	1	1	08/09/23	08/10/23	
Ethylbenzene	ND	0.0250	1	1	08/09/23	08/10/23	
Toluene	ND	0.0250	1	1	08/09/23	08/10/23	
p-Xylene	ND	0.0250	1	1	08/09/23	08/10/23	
p,m-Xylene	ND	0.0500	1	1	08/09/23	08/10/23	
Total Xylenes	ND	0.0250	1	1	08/09/23	08/10/23	
Surrogate: Bromofluorobenzene		94.7 %	70-130		08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		08/09/23	08/10/23	
Surrogate: Toluene-d8		89.8 %	70-130		08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2332061
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	08/09/23	08/10/23	
Surrogate: Bromofluorobenzene		94.7 %	70-130		08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		08/09/23	08/10/23	
Surrogate: Toluene-d8		89.8 %	70-130		08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	KM		Batch: 2332060
Diesel Range Organics (C10-C28)	ND	25.0	1	1	08/09/23	08/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	1	08/09/23	08/10/23	
Surrogate: n-Nonane		98.7 %	50-200		08/09/23	08/10/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2332070
Chloride	98.2	20.0	1	1	08/09/23	08/10/23	



Kaiser Francis Oil CompanyProject Name:NBL Pad #61224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Georgeann Goodman8/11/20232:55:16PM

Conf 25A E308056-12

		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: Γ	Y		Batch: 2332061
Benzene	ND	0.0250	1	1	08/09/23	08/11/23	
Ethylbenzene	ND	0.0250	1	1	08/09/23	08/11/23	
Toluene	ND	0.0250	1	1	08/09/23	08/11/23	
o-Xylene	ND	0.0250	1	1	08/09/23	08/11/23	
p,m-Xylene	ND	0.0500	1	1	08/09/23	08/11/23	
Total Xylenes	ND	0.0250	1	1	08/09/23	08/11/23	
Surrogate: Bromofluorobenzene		109 %	70-130		08/09/23	08/11/23	
Surrogate: 1,2-Dichloroethane-d4		97.7 %	70-130		08/09/23	08/11/23	
Surrogate: Toluene-d8		102 %	70-130		08/09/23	08/11/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: Γ	Y		Batch: 2332061
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	08/09/23	08/11/23	
Surrogate: Bromofluorobenzene		109 %	70-130		08/09/23	08/11/23	
Surrogate: 1,2-Dichloroethane-d4		97.7 %	70-130		08/09/23	08/11/23	
Surrogate: Toluene-d8		102 %	70-130		08/09/23	08/11/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: K	CM		Batch: 2332060
Diesel Range Organics (C10-C28)	ND	25.0	1	1	08/09/23	08/11/23	
Oil Range Organics (C28-C36)	ND	50.0	1	1	08/09/23	08/11/23	
Surrogate: n-Nonane		97.8 %	50-200		08/09/23	08/11/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: B	BA		Batch: 2332070
Chloride	50.5	20.0	1	1	08/09/23	08/11/23	



Kaiser Francis Oil CompanyProject Name:NBL Pad #61224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Georgeann Goodman8/11/20232:55:16PM

Conf 27A E308056-13

		E500050-15					
		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: I	Y		Batch: 2332061
Benzene	ND	0.0250	1	l	08/09/23	08/10/23	
Ethylbenzene	ND	0.0250	1	l	08/09/23	08/10/23	
Toluene	ND	0.0250	1	l	08/09/23	08/10/23	
p-Xylene	ND	0.0250	1	l	08/09/23	08/10/23	
o,m-Xylene	ND	0.0500	1	l	08/09/23	08/10/23	
Total Xylenes	ND	0.0250	1	<u> </u>	08/09/23	08/10/23	
Surrogate: Bromofluorobenzene		93.2 %	70-130		08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4		99.0 %	70-130		08/09/23	08/10/23	
Surrogate: Toluene-d8		90.1 %	70-130		08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: I	Y		Batch: 2332061
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	08/09/23	08/10/23	
Surrogate: Bromofluorobenzene		93.2 %	70-130		08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4		99.0 %	70-130		08/09/23	08/10/23	
Surrogate: Toluene-d8		90.1 %	70-130		08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: I	ζM		Batch: 2332060
Diesel Range Organics (C10-C28)	ND	25.0	1		08/09/23	08/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	l	08/09/23	08/10/23	
Surrogate: n-Nonane		82.2 %	50-200		08/09/23	08/10/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: I	BA		Batch: 2332070
Chloride	262	20.0	1		08/09/23	08/10/23	



Kaiser Francis Oil CompanyProject Name:NBL Pad #61224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Georgeann Goodman8/11/20232:55:16PM

Conf 28A E308056-14

		Reporting				
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Aı	nalyst: IY		Batch: 2332061
Benzene	ND	0.0250	1	08/09/23	08/10/23	
Ethylbenzene	ND	0.0250	1	08/09/23	08/10/23	
Toluene	ND	0.0250	1	08/09/23	08/10/23	
o-Xylene	ND	0.0250	1	08/09/23	08/10/23	
p,m-Xylene	ND	0.0500	1	08/09/23	08/10/23	
Total Xylenes	ND	0.0250	1	08/09/23	08/10/23	
Surrogate: Bromofluorobenzene		93.7 %	70-130	08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	08/09/23	08/10/23	
Surrogate: Toluene-d8		90.8 %	70-130	08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Aı	nalyst: IY		Batch: 2332061
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/09/23	08/10/23	
Surrogate: Bromofluorobenzene		93.7 %	70-130	08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	08/09/23	08/10/23	
Surrogate: Toluene-d8		90.8 %	70-130	08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Aı	nalyst: KM		Batch: 2332060
Diesel Range Organics (C10-C28)	ND	25.0	1	08/09/23	08/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/23	08/10/23	
Surrogate: n-Nonane		85.1 %	50-200	08/09/23	08/10/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Aı	nalyst: BA		Batch: 2332070
Chloride	185	20.0	1	08/09/23	08/10/23	

Kaiser Francis Oil CompanyProject Name:NBL Pad #61224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Georgeann Goodman8/11/20232:55:16PM

Conf 29A E308056-15

		1000000 10				
Analyte	Result	Reporting Limit	Diluti	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: IY		Batch: 2332061
Benzene	ND	0.0250	1	08/09/23	08/10/23	
Ethylbenzene	ND	0.0250	1	08/09/23	08/10/23	
Toluene	ND	0.0250	1	08/09/23	08/10/23	
o-Xylene	ND	0.0250	1	08/09/23	08/10/23	
p,m-Xylene	ND	0.0500	1	08/09/23	08/10/23	
Total Xylenes	ND	0.0250	1	08/09/23	08/10/23	
Surrogate: Bromofluorobenzene		93.5 %	70-130	08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4		99.4 %	70-130	08/09/23	08/10/23	
Surrogate: Toluene-d8		90.1 %	70-130	08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Α	Analyst: IY		Batch: 2332061
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/09/23	08/10/23	
Surrogate: Bromofluorobenzene		93.5 %	70-130	08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4		99.4 %	70-130	08/09/23	08/10/23	
Surrogate: Toluene-d8		90.1 %	70-130	08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Α	Analyst: KM		Batch: 2332060
Diesel Range Organics (C10-C28)	ND	25.0	1	08/09/23	08/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/23	08/10/23	
Surrogate: n-Nonane		85.5 %	50-200	08/09/23	08/10/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Α	Analyst: BA		Batch: 2332070
Chloride	235	20.0	1	08/09/23	08/10/23	

Kaiser Francis Oil CompanyProject Name:NBL Pad #61224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Georgeann Goodman8/11/20232:55:16PM

Conf 30A E308056-16

	_	Reporting				
Analyte	Result	Limit	Diluti	on Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	nalyst: IY		Batch: 2332061
Benzene	ND	0.0250	1	08/09/23	08/10/23	
Ethylbenzene	ND	0.0250	1	08/09/23	08/10/23	
Toluene	ND	0.0250	1	08/09/23	08/10/23	
o-Xylene	ND	0.0250	1	08/09/23	08/10/23	
p,m-Xylene	ND	0.0500	1	08/09/23	08/10/23	
Total Xylenes	ND	0.0250	1	08/09/23	08/10/23	
Surrogate: Bromofluorobenzene		93.8 %	70-130	08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	08/09/23	08/10/23	
Surrogate: Toluene-d8		91.1 %	70-130	08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	nalyst: IY		Batch: 2332061
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/09/23	08/10/23	
Surrogate: Bromofluorobenzene		93.8 %	70-130	08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	08/09/23	08/10/23	
Surrogate: Toluene-d8		91.1 %	70-130	08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	nalyst: KM		Batch: 2332060
Diesel Range Organics (C10-C28)	ND	25.0	1	08/09/23	08/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/23	08/10/23	
Surrogate: n-Nonane		84.7 %	50-200	08/09/23	08/10/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: BA		Batch: 2332070
Chloride	331	20.0	1	08/09/23	08/10/23	

Kaiser Francis Oil CompanyProject Name:NBL Pad #61224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Georgeann Goodman8/11/20232:55:16PM

Conf 31A E308056-17

Pacult	Reporting	Dilu	ution	Pranarad	Analyzed	Notes
Result	Limit	Dilu	ition	Trepared	Allaryzeu	Notes
mg/kg	mg/kg		Analyst:	IY		Batch: 2332061
ND	0.0250	1	1	08/09/23	08/10/23	
ND	0.0250	1	1	08/09/23	08/10/23	
ND	0.0250	1	1	08/09/23	08/10/23	
ND	0.0250	1	1	08/09/23	08/10/23	
ND	0.0500	1	1	08/09/23	08/10/23	
ND	0.0250	1	1	08/09/23	08/10/23	
	93.5 %	70-130		08/09/23	08/10/23	
	102 %	70-130		08/09/23	08/10/23	
	90.8 %	70-130		08/09/23	08/10/23	
mg/kg	mg/kg		Analyst:	IY		Batch: 2332061
ND	20.0	1	1	08/09/23	08/10/23	
	93.5 %	70-130		08/09/23	08/10/23	
	102 %	70-130		08/09/23	08/10/23	
	90.8 %	70-130		08/09/23	08/10/23	
mg/kg	mg/kg		Analyst:	KM		Batch: 2332060
ND	25.0	1	1	08/09/23	08/10/23	
ND	50.0	1	l	08/09/23	08/10/23	
	82.5 %	50-200		08/09/23	08/10/23	
mg/kg	mg/kg		Analyst:	BA		Batch: 2332070
139	20.0	1	1	08/09/23	08/10/23	
	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 ND 0.0250 93.5 % 102 % 90.8 % mg/kg ND 20.0 93.5 % 102 % 90.8 % 90.8 % mg/kg mg/kg ND 25.0 ND 50.0 82.5 % mg/kg	Result Limit Dilk mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 93.5 % 70-130 102 % 70-130 90.8 % 70-130 mg/kg mg/kg ND 20.0 93.5 % 70-130 102 % 70-130 90.8 % 70-130 mg/kg mg/kg ND 25.0 ND 50.0 82.5 % 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 0.0250 1 93.5 % 70-130 70-130 mg/kg mg/kg Analyst: ND 20.0 1 93.5 % 70-130 70-130 mg/kg mg/kg Analyst: ND 25.0 1 ND 50.0 1 82.5 % 50-200 mg/kg Mg/kg Analyst:	Result Limit Dilution Prepared mg/kg mg/kg Analyst: IY ND 0.0250 1 08/09/23 ND 0.0250 1 08/09/23 ND 0.0250 1 08/09/23 ND 0.0500 1 08/09/23 ND 0.0250 1 08/09/23 ND 0.0250 1 08/09/23 ND 0.0250 1 08/09/23 102 % 70-130 08/09/23 102 % 70-130 08/09/23 90.8 % 70-130 08/09/23 102 % 70-130 08/09/23 102 % 70-130 08/09/23 102 % 70-130 08/09/23 102 % 70-130 08/09/23 102 % 70-130 08/09/23 102 % 70-130 08/09/23 102 % 70-130 08/09/23 102 % 70-130 08/09/23 103 % 1	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: IY ND 0.0250 1 08/09/23 08/10/23 ND 0.0500 1 08/09/23 08/10/23 ND 0.0250 1 08/09/23 08/10/23 ND 0.0250 1 08/09/23 08/10/23 ND 0.0250 1 08/09/23 08/10/23 102 % 70-130 08/09/23 08/10/23 90.8 % 70-130 08/09/23 08/10/23 mg/kg mg/kg Analyst: IY ND 20.0 1 08/09/23 08/10/23 102 % 70-130 08/09/23 08/10/23 mg/kg mg/kg Analyst: KM ND 25.0



Kaiser Francis Oil CompanyProject Name:NBL Pad #61224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Georgeann Goodman8/11/20232:55:16PM

Conf 32A E308056-18

		2000000 10				
Analyte	Result	Reporting Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	An	alyst: IY		Batch: 2332061
Benzene	ND	0.0250	1	08/09/23	08/10/23	
Ethylbenzene	ND	0.0250	1	08/09/23	08/10/23	
Toluene	ND	0.0250	1	08/09/23	08/10/23	
o-Xylene	ND	0.0250	1	08/09/23	08/10/23	
p,m-Xylene	ND	0.0500	1	08/09/23	08/10/23	
Total Xylenes	ND	0.0250	1	08/09/23	08/10/23	
Surrogate: Bromofluorobenzene		94.4 %	70-130	08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	08/09/23	08/10/23	
Surrogate: Toluene-d8		90.3 %	70-130	08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: IY		Batch: 2332061
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/09/23	08/10/23	
Surrogate: Bromofluorobenzene		94.4 %	70-130	08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	08/09/23	08/10/23	
Surrogate: Toluene-d8		90.3 %	70-130	08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: KM		Batch: 2332060
Diesel Range Organics (C10-C28)	ND	25.0	1	08/09/23	08/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/23	08/10/23	
Surrogate: n-Nonane		85.4 %	50-200	08/09/23	08/10/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: BA		Batch: 2332070
Chloride	47.2	20.0	1	08/09/23	08/10/23	



Kaiser Francis Oil CompanyProject Name:NBL Pad #61224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Georgeann Goodman8/11/20232:55:16PM

Conf 33A E308056-19

		2000000 17				
Analyte	Result	Reporting Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		alyst: IY	, <u></u>	Batch: 2332061
Benzene	ND	0.0250	1	08/09/23	08/10/23	Batem 2002001
Ethylbenzene	ND	0.0250	1	08/09/23	08/10/23	
Toluene	ND	0.0250	1	08/09/23	08/10/23	
o-Xylene	ND	0.0250	1	08/09/23	08/10/23	
p,m-Xylene	ND	0.0500	1	08/09/23	08/10/23	
Total Xylenes	ND	0.0250	1	08/09/23	08/10/23	
Surrogate: Bromofluorobenzene		93.5 %	70-130	08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	08/09/23	08/10/23	
Surrogate: Toluene-d8		89.6 %	70-130	08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: IY		Batch: 2332061
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/09/23	08/10/23	
Surrogate: Bromofluorobenzene		93.5 %	70-130	08/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	08/09/23	08/10/23	
Surrogate: Toluene-d8		89.6 %	70-130	08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: KM		Batch: 2332060
Diesel Range Organics (C10-C28)	ND	25.0	1	08/09/23	08/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/23	08/10/23	
Surrogate: n-Nonane		84.7 %	50-200	08/09/23	08/10/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: BA		Batch: 2332070
Chloride	86.4	20.0	1	08/09/23	08/10/23	_

Kaiser Francis Oil CompanyProject Name:NBL Pad #61224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Georgeann Goodman8/11/20232:55:16PM

Conf 37A E308056-20

	_	Reporting	_	_			
Analyte	Result	Limit	Dilu	tion Pr	epared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	ي	Analyst: IY			Batch: 2332061
Benzene	ND	0.0250	1	1 08	3/09/23	08/10/23	
Ethylbenzene	ND	0.0250	1	1 08	3/09/23	08/10/23	
Toluene	ND	0.0250	1	1 08	3/09/23	08/10/23	
o-Xylene	ND	0.0250	1	1 08	3/09/23	08/10/23	
p,m-Xylene	ND	0.0500	1	1 08	3/09/23	08/10/23	
Total Xylenes	ND	0.0250	1	1 08	3/09/23	08/10/23	
Surrogate: Bromofluorobenzene		93.1 %	70-130	08	8/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	08	8/09/23	08/10/23	
Surrogate: Toluene-d8		90.3 %	70-130	08	8/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY			Batch: 2332061
Gasoline Range Organics (C6-C10)	ND	20.0	1	1 08	3/09/23	08/10/23	
Surrogate: Bromofluorobenzene		93.1 %	70-130	08	8/09/23	08/10/23	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	08	8/09/23	08/10/23	
Surrogate: Toluene-d8		90.3 %	70-130	08	8/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM			Batch: 2332060
Diesel Range Organics (C10-C28)	ND	25.0	1	08	3/09/23	08/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	1 08	3/09/23	08/10/23	
Surrogate: n-Nonane		87.0 %	50-200	08	8/09/23	08/10/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA			Batch: 2332070
Chloride	133	20.0	1	1 08	3/09/23	08/10/23	

QC Summary Data

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

Volatile Organic Compounds by FPA 8260R

Carlsbad NM, 88220		Project Manage	r: Ge	eorgeann Goo	dman			8/1	1/2023 2:55:16PN		
	Volatile Organic Compounds by EPA 8260B								Analyst: IY		
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit			
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes		
Blank (2332061-BLK1)							Prepared: 0	8/09/23 Anal	yzed: 08/10/23		
Benzene	ND	0.0250									
Ethylbenzene	ND	0.0250									
Toluene	ND	0.0250									
o-Xylene	ND	0.0250									
p,m-Xylene	ND	0.0500									
Total Xylenes	ND	0.0250									
Surrogate: Bromofluorobenzene	0.533		0.500		107	70-130					
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.5	70-130					
Surrogate: Toluene-d8	0.497		0.500		99.3	70-130					
LCS (2332061-BS1)							Prepared: 0	8/09/23 Anal	yzed: 08/10/23		
Benzene	2.66	0.0250	2.50		106	70-130					
Ethylbenzene	2.55	0.0250	2.50		102	70-130					
Foluene	2.48	0.0250	2.50		99.3	70-130					
o-Xylene	2.51	0.0250	2.50		101	70-130					
p,m-Xylene	4.96	0.0500	5.00		99.1	70-130					
Total Xylenes	7.47	0.0250	7.50		99.6	70-130					
Surrogate: Bromofluorobenzene	0.525		0.500		105	70-130					
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.5	70-130					
Surrogate: Toluene-d8	0.493		0.500		98.6	70-130					
Matrix Spike (2332061-MS1)				Source:	E308056-	10	Prepared: 0	8/09/23 Anal	yzed: 08/10/23		
Benzene	2.26	0.0250	2.50	ND	90.5	48-131					
Ethylbenzene	2.21	0.0250	2.50	ND	88.5	45-135					
Toluene	2.16	0.0250	2.50	ND	86.3	48-130					
o-Xylene	2.25	0.0250	2.50	ND	89.9	43-135					
p,m-Xylene	4.41	0.0500	5.00	ND	88.3	43-135					
Total Xylenes	6.66	0.0250	7.50	ND	88.8	43-135					
Surrogate: Bromofluorobenzene	0.526		0.500		105	70-130					
Surrogate: 1,2-Dichloroethane-d4	0.478		0.500		95.5	70-130					
Surrogate: Toluene-d8	0.494		0.500		98.7	70-130					
Matrix Spike Dup (2332061-MSD1)				Source:	E308056-	10	Prepared: 0	8/09/23 Anal	yzed: 08/10/23		
Benzene	2.46	0.0250	2.50	ND	98.4	48-131	8.45	23			
Ethylbenzene	2.35	0.0250	2.50	ND	93.9	45-135	5.92	27			
Toluene	2.30	0.0250	2.50	ND	92.2	48-130	6.64	24			
o-Xylene	2.36	0.0250	2.50	ND	94.3	43-135	4.80	27			
p,m-Xylene	4.61	0.0500	5.00	ND	92.2	43-135	4.32	27			
Total Xylenes	6.97	0.0250	7.50	ND	92.9	43-135	4.48	27			
Surrogate: Bromofluorobenzene	0.524		0.500		105	70-130					
Surrogate: 1,2-Dichloroethane-d4	0.488		0.500		97.6	70-130					
			0.500		00.1	50 120					



0.500

98.1

70-130

0.491

Surrogate: Toluene-d8

QC Summary Data

Kaiser Francis Oil CompanyProject Name:NBL Pad #6Reported:1224 Standpipe RdProject Number:21022-0001Carlsbad NM, 88220Project Manager:Georgeann Goodman8/11/20232:55:16PM

Nonhalogenated Organics by EPA 8015D - GRO											
Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit				

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2332061-BLK1)							Prepared: 0	8/09/23 Ana	lyzed: 08/10/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.533		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.5	70-130			
Surrogate: Toluene-d8	0.497		0.500		99.3	70-130			
LCS (2332061-BS2)							Prepared: 0	8/09/23 Ana	lyzed: 08/10/23
Gasoline Range Organics (C6-C10)	45.4	20.0	50.0		90.8	70-130			
Surrogate: Bromofluorobenzene	0.529		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		99.0	70-130			
Surrogate: Toluene-d8	0.504		0.500		101	70-130			
Matrix Spike (2332061-MS2)				Source:	E308056-	10	Prepared: 0	8/09/23 Ana	lyzed: 08/10/23
Gasoline Range Organics (C6-C10)	51.2	20.0	50.0	ND	102	70-130			
Surrogate: Bromofluorobenzene	0.538		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.494		0.500		98.7	70-130			
Surrogate: Toluene-d8	0.497		0.500		99.3	70-130			
Matrix Spike Dup (2332061-MSD2)				Source:	E308056-	10	Prepared: 0	8/09/23 Ana	lyzed: 08/10/23
Gasoline Range Organics (C6-C10)	48.5	20.0	50.0	ND	97.0	70-130	5.47	20	
Surrogate: Bromofluorobenzene	0.533		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.475		0.500		95.0	70-130			
Surrogate: Toluene-d8	0.492		0.500		98.4	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	8/11/2023 2:55:16PM

Carisbad NM, 88220		Project Manager	r: Ge	orgeann Goo	aman				8/11/2023 2:33:16PN
	Nonha	logenated Or	ganics by l	EPA 8015I) - DRO	ORO/			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2332060-BLK1)							Prepared: 0	8/09/23 A	nalyzed: 08/10/23
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	54.4		50.0		109	50-200			
LCS (2332060-BS1)							Prepared: 0	8/09/23 A	nalyzed: 08/10/23
Diesel Range Organics (C10-C28)	262	25.0	250		105	38-132			
urrogate: n-Nonane	49.8		50.0		99.7	50-200			
Matrix Spike (2332060-MS1)				Source:	E308056-0	01	Prepared: 0	8/09/23 A	nalyzed: 08/10/23
Diesel Range Organics (C10-C28)	270	25.0	250	ND	108	38-132			
urrogate: n-Nonane	48.4		50.0		96.8	50-200			
Matrix Spike Dup (2332060-MSD1)				Source:	E308056-0)1	Prepared: 0	8/09/23 A	nalyzed: 08/10/23
Diesel Range Organics (C10-C28)	281	25.0	250	ND	112	38-132	3.77	20	
urrogate: n-Nonane	48.7		50.0		97.3	50-200			



Chloride

Chloride

Matrix Spike Dup (2332070-MSD1)

QC Summary Data

Kaiser Francis Oil Company 1224 Standpipe Rd		Project Name: Project Number:		BL Pad #6 1022-0001					Reported:
Carlsbad NM, 88220		Project Manager		eorgeann Goo	dman			8	/11/2023 2:55:16PM
		Anions	by EPA	300.0/9056	4				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 (2332070-BLK1)							Prepared: 0	8/09/23 An	alyzed: 08/10/23
Chloride	ND	20.0							
LCS (2332070-BS1)							Prepared: 0	8/09/23 An	alyzed: 08/10/23
Chloride	263	20.0	250		105	90-110			
Matrix Spike (2332070-MS1)				Source:	E308056-	01	Prepared: 0	8/09/23 An	alyzed: 08/10/23

250

250

20.0

20.0

55.0

55.0

99.0

101

Source: E308056-01

80-120

80-120

1.27

Prepared: 08/09/23 Analyzed: 08/10/23

20

302

306

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

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	08/11/23 14:55

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: NBL Rad #46 Attention: Wescom Inc								1 - 1-				Jse Only Job Number			10	Ian		AT Ctore			Program
Project Manager: Lovaeann (Address: 1224 Stan						indoir	50)	Lab WO#			10	2 21022 - 000 l			1 20	2D	30	Stan	dard	CWA	SDWA
Address: City, State, Zip CAYISMA							m	L 70 0000				Analysis and Method					-	100			RCRA
City, State, Zip Phone:												Milarys	13 UI	TO TVICE	T	T				-	NCNA
Phone: 5757251311 (Email:								15	5									1		State	
mail: Qe	ora						ef.	0		0.0		-			N	м со	UT AZ	TX			
eport due	by:	wes	COPHI	nc.com	4			RO b	RO b	, 8021	826	6010	e 300.0		NZ	100		>	e		
Time Sampled S	Date ampled	Matrix	No. of Containers	Sample ID			Lab Number	DRO/O	GRO/D	BTEX by	VOC by 8260	Metals 6010	Chlorid		BGDOC	верос				Remarks	
100 8	1/23	S	1	Confoli	+		1								X						
1103	1		1	Conf 02	A		2								X						
1105			1	Conf 03	A		3								X						
1108			1	Conf 05	A		4						ľ		×						
1110			1	Conf 12 F			5								×						
1113			1	Conf 13	A		0								7						
1115			1	conf 14F			7								X						
1117			1	Conf 171	A		8								×						
1130			1	Conf 18	A		9								×						
1131	V	>	1	Conf 19	7_		10								×						
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		1	the strength of the later	d may be grounds for le	am aware that tampering with or integal action. Sampled by:	entionally mislab	elling the sa	mple I	ocation,											they are sam	pled or
Relinquished	0		Date		Received by: (Signature)	0	Date		Time						- 4	ah II	se On	lv			1
	7	2	8	8 23 53	Michelle Gu		X-80	13	17	30)	Recei	ved	on ice:		Y)/ I		· y			
Relinquished Williams	by: (Sign	three!	Date	9-23 Time 1515	Received by: (Signature)		B. q.		Time	700		T1			T2			T3			
Relinguished	by: (Sign	ature)	808	9.23 Time	Received by (Signature)		Date X//V	73	Time 7.	00		AVG T	Tem	np °C	4						
Sample Matrix	c: S - Soil, S	d - Solid, Sg	- Sludge, A	- Aqueous, O - Other			Containe	r Type	: g - g	lass,		-			nber g	lass,	v - VOA	A			
Note: Sampl	es are dis	carded 30	days after	results are reported	unless other arrangements are ma	ade. Hazardo	us samples	will b	e retur	ned t	to clie	nt or d	lispo	sed of at	the cli	ent ex			port for t	he analysi	s of the
Jahove sampl	es is anni	icable only	to those s	amples received by t	he laboratory with this COC. The I	liability of the	ahoratory	ic limi	ted to t	the a	mour	t naid	for	n the re	ort						

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Consider the client expense. The report for the analysis of the ron the report.

roject Informatio	n					Chain o	f Custo	dy										Page 2
lient: Kaisen	Fran	CIS O	100		Bill To				La	bUs	e On	lv				TAT	FΡΔ	Program
Project: NBL Paci #40 Attention: Wesc					:: Wescom 11										2D 3			
Project Manager: Quageanna Address: 1224 Stands						dape	E	E308056			Job Number 21022 -000(×				
Address: City, State, Zip Cur Social						d'Um	1					Analysis and Method						RCRA
ity, State, Zip				Phone:					T I'M									
Phone: 5757251311 Email Quorgan n. goodman								115									State	
mailOuvoye	inn.	3000	mane				by 8015	37 80	21	0		0.0		ΣN			CO UT A	Z TX
leport due by:	vesc	omine	C.(0m)				2	RO I	y 8021	826	601	e 300,			¥	>0		
Time Date Sampled Sampled	Matrix	No. of Containers	Sample ID			La Num	0	GRO/DRO by 8015	втех ьу	VOC by 8260	Metals 6010	Chloride		верос	верос		Remark	ks
125 8/1/23	5	1	Conf 234	4		11								x				
100 0 400	~		Curit	1														
8611		1	Conf 25F	f		12								γ				
131		1	Conf 27F	Α		13	3							X				
1135		1	Conf 281			14	1							×				
		,				15								y				
1137	-	-	Conf 291	1			691	+			-			^	+			
1139		1	Conf 30F	t		10								×				
142		1	Conf 31A			17	7							X		q		
1145		1	Conf 32F	1		18								y				
1148		1	Conf 33A			19	9							×				
1151	1		Conf 37 F			20	7							X				
Additional Instruc	rtions		CONF 5 F	1														
Rlease St	00 0	200 0	V O 0															
, (field sampler), attest t	o the validit	y and auther	nticity of this sample. I a	ım aware that ta	ampering with or intentionally	mislabelling t	the sample	locatio	n,		Sample	s requiri	ng thermal	preserv	ation must b	e received on ice t	ne day they are s	sampled or
late or time of collection		2			Sampled by:				101		receive	d packed	in ice at ar	avg ter	np above 0	but less than 6 °C o	n subsequent da	ys.
Relinquished by: (Sign	nature)	Date		1,125,21	ved by: (Signature)	Date		Time						غا	b Use C	Only		
2 8/8/23 530 Middle Sungh					n 8	8-23	1	130		Rece	eived o	on ice:)/ N				
Relinquished by: (Signature) Date One Dat					Date O	.9.2	3 Time	20		T1			T2		<u>T3</u>			
Relinguished by: (Sigr		4000	9.23 Time		ved by: (Signature)	Date	11/2-	Time						1		10		
Moder	11/02	-		00/	ulla //la	12 8/1	10123		00	_		Temp		1				
Sample Matrix: S - Soil, S						Conta	ainer Ty	pe: g -	glass,	p - p	oly/pl	lastic,	ag - am	ber gl	ass, v - V	OA		
Note: Samples are dis	carded 30	days after r	esults are reported u	nless other ar	rangements are made. Ha	azardous sam	nples will	be ret	urned	to clie	nt or	dispos	ed of at t	he clie	nt expen	se. The report	for the anal	ysis of the
ove samples is app	licable only	to those sa	imples received by th	ie laboratory v	with this COC. The liability	or the labora	tory is lir	nited to	tne a	moun	t paid	for on	the repo	ort.				

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Printed: 8/10/2023 10:52:21AM

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:	08/10/23	07:00	Work Order ID:	E308056
Phone:	575-725-1311	Date Logged In:	08/09/23	14:52	Logged In By:	Alexa Michaels
Email:	georgeann.goodman@wesominc.com	Due Date:	08/10/23	17:00 (0 day TAT)		
<i>-</i>	G I. (COC)					
	Custody (COC)					
	te sample ID match the COC?	oh the COC	Yes			
	te number of samples per sampling site location mat	ich the COC	Yes			
	amples dropped off by client or carrier?	.4. 4 19	Yes Yes	Carrier: C	<u>Courier</u>	
	e COC complete, i.e., signatures, dates/times, requestall samples received within holding time?	sied analyses?	Yes			
5. Were al	Note: Analysis, such as pH which should be conducted ir i.e, 15 minute hold time, are not included in this disucssion.		168		Commer	nts/Resolution
	urn Around Time (TAT) COC indicate standard TAT, or Expedited TAT?		Yes		Project NBL Pad #6 ha	s been split into two
Sample C					work orders due to hig	h sample volume
	ample cooler received?		Yes		amount. Work orders a	•
	was cooler received in good condition?		Yes			ie 2500050 and
	e sample(s) received intact, i.e., not broken?		Yes		E308057.	
	custody/security seals present?		No			
	were custody/security seals intact?		NA			
12. Was the	e 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			
Sample C		· · · · · · <u>—</u>	-			
	queous VOC samples present?		No			
	OC samples collected in VOA Vials?		NA			
	head space less than 6-8 mm (pea sized or less)?		NA			
	trip blank (TB) included for VOC analyses?		NA			
	on-VOC samples collected in the correct containers?	?	Yes			
	appropriate volume/weight or number of sample contain		Yes			
Field Lab	el					
20. Were :	— field sample labels filled out with the minimum info	rmation:				
	ample ID?		Yes			
	ate/Time Collected?		Yes	'		
	ollectors name?		Yes			
	<u>reservation</u> the COC or field labels indicate the samples were pr	agamyad?	NI-			
	imple(s) correctly preserved?	eserveu?	No NA			
	filteration required and/or requested for dissolved m	netals?	No			
	•	icuis.	110			
	se Sample Matrix	9	3.7			
	the sample have more than one phase, i.e., multipha		No			
	does the COC specify which phase(s) is to be analy	/zeu?	NA			
	act Laboratory					
	imples required to get sent to a subcontract laborator		No			
29. Was a	subcontract laboratory specified by the client and if	f so who?	NA	Subcontract Lab	o: NA	
Client In	struction					
						0

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: E308057

Job Number: 21022-0001

Received: 8/10/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 8/11/23

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: 8/11/23

Georgeann Goodman 1224 Standpipe Rd Carlsbad, NM 88220

Project Name: NBL Pad #6

Workorder: E308057

Date Received: 8/10/2023 7:00:00AM

Georgeann Goodman,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/10/2023 7:00:00AM, 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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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	Donoutoda
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	08/11/23 14:17

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Conf 38A	E308057-01A	Soil	08/07/23	08/10/23	Glass Jar, 2 oz.
Conf 39A	E308057-02A	Soil	08/07/23	08/10/23	Glass Jar, 2 oz.
Conf 42A	E308057-03A	Soil	08/07/23	08/10/23	Glass Jar, 2 oz.
Conf 43A	E308057-04A	Soil	08/07/23	08/10/23	Glass Jar, 2 oz.
Conf 44A	E308057-05A	Soil	08/07/23	08/10/23	Glass Jar, 2 oz.
Conf 45A	E308057-06A	Soil	08/07/23	08/10/23	Glass Jar, 2 oz.
Conf 46A	E308057-07A	Soil	08/07/23	08/10/23	Glass Jar, 2 oz.
Conf 47A	E308057-08A	Soil	08/07/23	08/10/23	Glass Jar, 2 oz.
Conf 48A	E308057-09A	Soil	08/07/23	08/10/23	Glass Jar, 2 oz.
Conf 51A	E308057-10A	Soil	08/07/23	08/10/23	Glass Jar, 2 oz.
52A	E308057-11A	Soil	08/07/23	08/10/23	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	8/11/2023 2:17:05PM

Conf 38A E308057-01

	E300037-01				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Ana	llyst: IY		Batch: 2332063
ND	0.0250	1	08/09/23	08/10/23	
ND	0.0250	1	08/09/23	08/10/23	
ND	0.0250	1	08/09/23	08/10/23	
ND	0.0250	1	08/09/23	08/10/23	
ND	0.0500	1	08/09/23	08/10/23	
ND	0.0250	1	08/09/23	08/10/23	
	96.9 %	70-130	08/09/23	08/10/23	
mg/kg	mg/kg	Ana	lyst: IY		Batch: 2332063
ND	20.0	1	08/09/23	08/10/23	
	85.7 %	70-130	08/09/23	08/10/23	
mg/kg	mg/kg	Ana	lyst: KM		Batch: 2332062
ND	25.0	1	08/09/23	08/10/23	
ND	50.0	1	08/09/23	08/10/23	
	84.8 %	50-200	08/09/23	08/10/23	
mg/kg	mg/kg	Ana	lyst: BA		Batch: 2332071
180	20.0	1	08/09/23	08/10/23	
	mg/kg ND Mg/kg ND mg/kg	mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 mg/kg mg/kg ND 20.0 85.7 % mg/kg ND 25.0 ND 50.0 84.8 % mg/kg mg/kg mg/kg	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 MD 20.0250 1 MB/kg mg/kg Ana ND 20.0 1 85.7 % 70-130 mg/kg mg/kg Ana ND 25.0 1 ND 50.0 1 84.8 % 50-200 mg/kg mg/kg Ana	Result Limit Dilution Prepared mg/kg mg/kg Analyst: IY ND 0.0250 1 08/09/23 ND 0.0250 1 08/09/23 ND 0.0250 1 08/09/23 ND 0.0500 1 08/09/23 ND 0.0250 1 08/09/23 ND 0.0250 1 08/09/23 mg/kg mg/kg Analyst: IY ND 20.0 1 08/09/23 mg/kg mg/kg Analyst: KM ND 25.0 1 08/09/23 ND 50.0 1 08/09/23 ND 50.0 1 08/09/23 ND 50.0 1 08/09/23 ND 50.0 08/09/23 Mg/kg mg/kg Analyst: BA	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: IY ND 0.0250 1 08/09/23 08/10/23 ND 0.0250 1 08/09/23 08/10/23 ND 0.0250 1 08/09/23 08/10/23 ND 0.0500 1 08/09/23 08/10/23 ND 0.0250 1 08/09/23 08/10/23 ND 0.0250 1 08/09/23 08/10/23 mg/kg mg/kg Analyst: IY ND 20.0 1 08/09/23 08/10/23 mg/kg mg/kg Analyst: KM ND 25.0 1 08/09/23 08/10/23 ND 50.0 1 08/09/23 08/10/23 ND 50.0 1 08/09/23 08/10/23 Mg/kg mg/kg Analyst: KM



Kaiser Francis Oil Company	Project Name:	NBL Pad #6	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	8/11/2023 2:17:05PM

Conf 39A E308057-02

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: IY		Batch: 2332063
Benzene	ND	0.0250	1	08/09/23	08/10/23	
Ethylbenzene	ND	0.0250	1	08/09/23	08/10/23	
Toluene	ND	0.0250	1	08/09/23	08/10/23	
o-Xylene	ND	0.0250	1	08/09/23	08/10/23	
p,m-Xylene	ND	0.0500	1	08/09/23	08/10/23	
Total Xylenes	ND	0.0250	1	08/09/23	08/10/23	
Surrogate: 4-Bromochlorobenzene-PID		96.9 %	70-130	08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	vst: IY		Batch: 2332063
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/09/23	08/10/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.5 %	70-130	08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: KM		Batch: 2332062
Diesel Range Organics (C10-C28)	ND	25.0	1	08/09/23	08/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/23	08/10/23	
Surrogate: n-Nonane		84.9 %	50-200	08/09/23	08/10/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	vst: BA		Batch: 2332071
Chloride	90.2	20.0	1	08/09/23	08/10/23	



Kaiser Francis Oil Company	Project Name:	NBL Pad #6	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	8/11/2023 2:17:05PM

Conf 42A E308057-03

E300037-03						
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: IY		Batch: 2332063
Benzene	ND	0.0250	1	08/09/23	08/10/23	
Ethylbenzene	ND	0.0250	1	08/09/23	08/10/23	
Гoluene	ND	0.0250	1	08/09/23	08/10/23	
o-Xylene	ND	0.0250	1	08/09/23	08/10/23	
o,m-Xylene	ND	0.0500	1	08/09/23	08/10/23	
Total Xylenes	ND	0.0250	1	08/09/23	08/10/23	
Surrogate: 4-Bromochlorobenzene-PID		96.2 %	70-130	08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: IY		Batch: 2332063
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/09/23	08/10/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		84.9 %	70-130	08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2332062
Diesel Range Organics (C10-C28)	39.4	25.0	1	08/09/23	08/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/23	08/10/23	
Surrogate: n-Nonane		88.3 %	50-200	08/09/23	08/10/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2332071
Chloride	109	20.0	1	08/09/23	08/10/23	



Kaiser Francis Oil Company	Project Name:	NBL Pad #6	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	8/11/2023 2:17:05PM

Conf 43A E308057-04

	E300037-04				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Ana	lyst: IY		Batch: 2332063
ND	0.0250	1	08/09/23	08/10/23	
ND	0.0250	1	08/09/23	08/10/23	
ND	0.0250	1	08/09/23	08/10/23	
ND	0.0250	1	08/09/23	08/10/23	
ND	0.0500	1	08/09/23	08/10/23	
ND	0.0250	1	08/09/23	08/10/23	
	97.3 %	70-130	08/09/23	08/10/23	
mg/kg	mg/kg	Ana	lyst: IY		Batch: 2332063
ND	20.0	1	08/09/23	08/10/23	
	85.0 %	70-130	08/09/23	08/10/23	
mg/kg	mg/kg	Ana	lyst: KM		Batch: 2332062
ND	25.0	1	08/09/23	08/10/23	
ND	50.0	1	08/09/23	08/10/23	
	89.8 %	50-200	08/09/23	08/10/23	
mg/kg	mg/kg	Ana	lyst: BA		Batch: 2332071
154	20.0	1	08/09/23	08/10/23	
	mg/kg 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 MD 0.0250 MD 0.0250 MD 20.0250 85.0 % mg/kg MB/kg mg/kg ND 25.0 ND 50.0 89.8 % mg/kg mg/kg mg/kg	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 97.3 % 70-130 mg/kg mg/kg Ana ND 20.0 1 85.0 % 70-130 1 mg/kg mg/kg Ana ND 25.0 1 ND 50.0 1 89.8 % 50-200 mg/kg mg/kg Ana	Result Limit Dilution Prepared mg/kg mg/kg Analyst: IY ND 0.0250 1 08/09/23 ND 0.0250 1 08/09/23 ND 0.0250 1 08/09/23 ND 0.0500 1 08/09/23 ND 0.0250 1 08/09/23 ND 0.0250 1 08/09/23 mg/kg mg/kg Analyst: IY ND 20.0 1 08/09/23 mg/kg mg/kg Analyst: KM ND 25.0 1 08/09/23 ND 50.0 1 08/09/23 ND 50.0 1 08/09/23 ND 50.0 1 08/09/23 ND 50.0 1 08/09/23 Mg/kg mg/kg Analyst: KM	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: IY ND 0.0250 1 08/09/23 08/10/23 ND 0.0500 1 08/09/23 08/10/23 ND 0.0250 1 08/09/23 08/10/23 mg/kg mg/kg Analyst: IY ND 20.0 1 08/09/23 08/10/23 mg/kg mg/kg Analyst: KM ND 25.0 1 08/09/23 08/10/23 ND 25.0 1 08/09/23 08/10/23 ND 50.0 1 08/09/23 08/10/23 ND 50.0 1 08/09/23 08/10/23 ND 50.0 1 08/09/23 08/10/23 8



Kaiser Francis Oil Company	Project Name:	NBL Pad #6	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	8/11/2023 2:17:05PM

Conf 44A E308057-05

		E308057-05				
	D 1:	Reporting	15 71 - 2	D 1		N .
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: IY		Batch: 2332063
Benzene	ND	0.0250	1	08/09/23	08/10/23	
Ethylbenzene	ND	0.0250	1	08/09/23	08/10/23	
Toluene	ND	0.0250	1	08/09/23	08/10/23	
o-Xylene	ND	0.0250	1	08/09/23	08/10/23	
p,m-Xylene	ND	0.0500	1	08/09/23	08/10/23	
Total Xylenes	ND	0.0250	1	08/09/23	08/10/23	
Surrogate: 4-Bromochlorobenzene-PID		96.5 %	70-130	08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: IY		Batch: 2332063
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/09/23	08/10/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.4 %	70-130	08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2332062
Diesel Range Organics (C10-C28)	ND	25.0	1	08/09/23	08/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/23	08/10/23	
Surrogate: n-Nonane		87.6 %	50-200	08/09/23	08/10/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: BA		Batch: 2332071
Chloride	113	20.0	1	08/09/23	08/10/23	



Kaiser Francis Oil Company	Project Name:	NBL Pad #6	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	8/11/2023 2:17:05PM

Conf 45A

E308057-06						
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: IY		Batch: 2332063
Benzene	ND	0.0250	1	08/09/23	08/10/23	
Ethylbenzene	ND	0.0250	1	08/09/23	08/10/23	
Toluene	ND	0.0250	1	08/09/23	08/10/23	
o-Xylene	ND	0.0250	1	08/09/23	08/10/23	
p,m-Xylene	ND	0.0500	1	08/09/23	08/10/23	
Total Xylenes	ND	0.0250	1	08/09/23	08/10/23	
Surrogate: 4-Bromochlorobenzene-PID		95.5 %	70-130	08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: IY		Batch: 2332063
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/09/23	08/10/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		84.9 %	70-130	08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: KM		Batch: 2332062
Diesel Range Organics (C10-C28)	ND	25.0	1	08/09/23	08/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/23	08/10/23	
Surrogate: n-Nonane		87.0 %	50-200	08/09/23	08/10/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: BA		Batch: 2332071
Chloride	115	20.0	1	08/09/23	08/10/23	



Kaiser Francis Oil Company	Project Name:	NBL Pad #6	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	8/11/2023 2:17:05PM

Conf 46A

E308057-07						
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	lyst: IY		Batch: 2332063
Benzene	ND	0.0250	1	08/09/23	08/10/23	
Ethylbenzene	ND	0.0250	1	08/09/23	08/10/23	
Toluene	ND	0.0250	1	08/09/23	08/10/23	
o-Xylene	ND	0.0250	1	08/09/23	08/10/23	
p,m-Xylene	ND	0.0500	1	08/09/23	08/10/23	
Total Xylenes	ND	0.0250	1	08/09/23	08/10/23	
Surrogate: 4-Bromochlorobenzene-PID		95.4 %	70-130	08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2332063
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/09/23	08/10/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.6 %	70-130	08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KM		Batch: 2332062
Diesel Range Organics (C10-C28)	ND	25.0	1	08/09/23	08/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/23	08/10/23	
Surrogate: n-Nonane		86.8 %	50-200	08/09/23	08/10/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2332071
Chloride	170	20.0	1	08/09/23	08/10/23	



Kaiser Francis Oil Company	Project Name:	NBL Pad #6	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	8/11/2023 2:17:05PM

Conf 47A

E308057-08						
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	ılyst: IY		Batch: 2332063
Benzene	ND	0.0250	1	08/09/23	08/10/23	
Ethylbenzene	ND	0.0250	1	08/09/23	08/10/23	
Toluene	ND	0.0250	1	08/09/23	08/10/23	
o-Xylene	ND	0.0250	1	08/09/23	08/10/23	
o,m-Xylene	ND	0.0500	1	08/09/23	08/10/23	
Total Xylenes	ND	0.0250	1	08/09/23	08/10/23	
Surrogate: 4-Bromochlorobenzene-PID		96.0 %	70-130	08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	ılyst: IY		Batch: 2332063
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/09/23	08/10/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.6 %	70-130	08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: KM		Batch: 2332062
Diesel Range Organics (C10-C28)	ND	25.0	1	08/09/23	08/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/23	08/10/23	
Surrogate: n-Nonane		86.4 %	50-200	08/09/23	08/10/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	ılyst: BA		Batch: 2332071
Chloride	188	20.0	1	08/09/23	08/10/23	



Kaiser Francis Oil Company	Project Name:	NBL Pad #6	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	8/11/2023 2:17:05PM

Conf 48A E308057-09

	E300037-07				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Ana	lyst: IY		Batch: 2332063
ND	0.0250	1	08/09/23	08/10/23	
ND	0.0250	1	08/09/23	08/10/23	
ND	0.0250	1	08/09/23	08/10/23	
ND	0.0250	1	08/09/23	08/10/23	
ND	0.0500	1	08/09/23	08/10/23	
ND	0.0250	1	08/09/23	08/10/23	
	96.0 %	70-130	08/09/23	08/10/23	
mg/kg	mg/kg	Ana	lyst: IY		Batch: 2332063
ND	20.0	1	08/09/23	08/10/23	
	86.8 %	70-130	08/09/23	08/10/23	
mg/kg	mg/kg	Ana	lyst: KM		Batch: 2332062
ND	25.0	1	08/09/23	08/10/23	
ND	50.0	1	08/09/23	08/10/23	
	88.2 %	50-200	08/09/23	08/10/23	
mg/kg	mg/kg	Ana	lyst: BA		Batch: 2332071
272	20.0	1	08/09/23	08/10/23	
	mg/kg ND Mg/kg ND mg/kg	Result Reporting mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 mg/kg mg/kg MB/kg mg/kg ND 20.0 86.8 % mg/kg ND 25.0 ND 50.0 88.2 % 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 0.0500 1 ND 0.0250 1 MD 0.0250 1 MD 0.0250 1 Mg/kg mg/kg Ana ND 20.0 1 86.8 % 70-130 mg/kg mg/kg Ana ND 25.0 1 ND 50.0 1 88.2 % 50-200 mg/kg mg/kg Ana	Reporting Result Limit Dilution Prepared mg/kg mg/kg Analyst: IY ND 0.0250 1 08/09/23 ND 0.0250 1 08/09/23 ND 0.0250 1 08/09/23 ND 0.0500 1 08/09/23 ND 0.0250 1 08/09/23 MD 0.0250 1 08/09/23 mg/kg mg/kg Analyst: IY ND 20.0 1 08/09/23 mg/kg mg/kg Analyst: KM ND 25.0 1 08/09/23 ND 50.0 1 08/09/23 ND 50.0 1 08/09/23 88.2 % 50-200 08/09/23 mg/kg mg/kg Analyst: BA	Reporting Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: IY ND 0.0250 1 08/09/23 08/10/23 ND 0.0250 1 08/09/23 08/10/23 ND 0.0250 1 08/09/23 08/10/23 ND 0.0500 1 08/09/23 08/10/23 ND 0.0250 1 08/09/23 08/10/23 ND 0.0250 1 08/09/23 08/10/23 mg/kg mg/kg Analyst: IY ND 08/10/23 mg/kg mg/kg Analyst: IY ND 20.0 1 08/09/23 08/10/23 mg/kg mg/kg Analyst: KM ND 25.0 1 08/09/23 08/10/23 ND 25.0 1 08/09/23 08/10/23 ND 50.0 1 08/09/23 08/10/23 ND 50.0 1 08/09/23 08/10/23



Kaiser Francis Oil Company	Project Name:	NBL Pad #6	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	8/11/2023 2:17:05PM

Conf 51A E308057-10

Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Ana	lyst: IY		Batch: 2332063
ND	0.0250	1	08/09/23	08/10/23	
ND	0.0250	1	08/09/23	08/10/23	
ND	0.0250	1	08/09/23	08/10/23	
ND	0.0250	1	08/09/23	08/10/23	
ND	0.0500	1	08/09/23	08/10/23	
ND	0.0250	1	08/09/23	08/10/23	
	97.2 %	70-130	08/09/23	08/10/23	
mg/kg	mg/kg	Ana	lyst: IY		Batch: 2332063
ND	20.0	1	08/09/23	08/10/23	
	85.4 %	70-130	08/09/23	08/10/23	
mg/kg	mg/kg	Ana	lyst: KM		Batch: 2332062
ND	25.0	1	08/09/23	08/10/23	
ND	50.0	1	08/09/23	08/10/23	
	87.4 %	50-200	08/09/23	08/10/23	
mg/kg	mg/kg	Ana	lyst: BA		Batch: 2332071
210	20.0	1	08/09/23	08/10/23	
	mg/kg 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 MD 0.0250 MD 20.0250 mg/kg mg/kg MD 20.0 85.4 % mg/kg ND 25.0 ND 50.0 87.4 % mg/kg mg/kg mg/kg	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 97.2 % 70-130 mg/kg mg/kg Ana ND 20.0 1 85.4 % 70-130 1 mg/kg mg/kg Ana ND 25.0 1 ND 50.0 1 87.4 % 50-200 mg/kg mg/kg Ana	Result Limit Dilution Prepared mg/kg mg/kg Analyst: IY ND 0.0250 1 08/09/23 ND 0.0250 1 08/09/23 ND 0.0250 1 08/09/23 ND 0.0500 1 08/09/23 ND 0.0250 1 08/09/23 ND 0.0250 1 08/09/23 mg/kg mg/kg Analyst: IY ND 20.0 1 08/09/23 mg/kg mg/kg Analyst: KM ND 25.0 1 08/09/23 ND 50.0 1 08/09/23 ND 50.0 1 08/09/23 ND 50.0 1 08/09/23 ND 50.0 1 08/09/23 87.4 % 50-200 08/09/23 mg/kg mg/kg Analyst: BA	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: IY ND 0.0250 1 08/09/23 08/10/23 ND 0.0500 1 08/09/23 08/10/23 ND 0.0250 1 08/09/23 08/10/23 mg/kg mg/kg Analyst: IY ND 20.0 1 08/09/23 08/10/23 mg/kg mg/kg Analyst: KM ND 25.0 1 08/09/23 08/10/23 ND 50.0 1 08/09/23 08/10/23 ND 50.0 1 08/09/23 08/10/23 Mg/kg mg/kg Analyst: KM



Kaiser Francis Oil Company	Project Name:	NBL Pad #6	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Georgeann Goodman	8/11/2023 2:17:05PM

52A

E308057-11

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	ılyst: IY		Batch: 2332063
Benzene	ND	0.0250	1	08/09/23	08/10/23	
Ethylbenzene	ND	0.0250	1	08/09/23	08/10/23	
Toluene	ND	0.0250	1	08/09/23	08/10/23	
o-Xylene	ND	0.0250	1	08/09/23	08/10/23	
p,m-Xylene	ND	0.0500	1	08/09/23	08/10/23	
Total Xylenes	ND	0.0250	1	08/09/23	08/10/23	
Surrogate: 4-Bromochlorobenzene-PID		96.9 %	70-130	08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: IY		Batch: 2332063
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/09/23	08/10/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		83.6 %	70-130	08/09/23	08/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: KM		Batch: 2332062
Diesel Range Organics (C10-C28)	ND	25.0	1	08/09/23	08/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/09/23	08/10/23	
Surrogate: n-Nonane		89.8 %	50-200	08/09/23	08/10/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: BA		Batch: 2332071
		<u> </u>	·			



Matrix Spike Dup (2332063-MSD1)

Surrogate: 4-Bromochlorobenzene-PID

Ethylbenzene

Toluene

o-Xylene

p,m-Xylene

Total Xylenes

4.77

4.63

4 79

4.76

9.59

14.3

7.71

0.0250

0.0250

0.0250

0.0250

0.0500

0.0250

5.00

5.00

5.00

5.00

10.0

15.0

8.00

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 8/11/2023 2:17:05PM **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 (2332063-BLK1) Prepared: 08/09/23 Analyzed: 08/10/23 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 7.67 8.00 95.9 70-130 LCS (2332063-BS1) Prepared: 08/09/23 Analyzed: 08/10/23 4.61 92.2 70-130 5.00 Benzene 0.0250 Ethylbenzene 4.49 0.0250 5.00 89.8 70-130 4.65 0.0250 5.00 92.9 70-130 Toluene o-Xylene 4.64 0.0250 5.00 92.8 70-130 9.32 10.0 93.2 70-130 0.0500 p.m-Xvlene 93.0 14.0 15.0 70-130 Total Xylenes 0.0250 8.00 96.5 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.72 Matrix Spike (2332063-MS1) Source: E308057-08 Prepared: 08/09/23 Analyzed: 08/10/23 5.04 0.0250 5.00 ND 54-133 Benzene ND 61-133 Ethylbenzene 4.89 0.0250 5.00 97.9 Toluene 5.06 0.0250 5.00 ND 101 61-130 5.07 ND 101 63-131 5.00 0.0250 o-Xylene p,m-Xylene 10.1 0.0500 10.0 ND 101 63-131 0.0250 15.0 ND 63-131 Total Xylenes 7.75 70-130 Surrogate: 4-Bromochlorobenzene-PID 8.00

Source: E308057-08

95.4

92.7

95.8

95.1

95.9

95.6

96.3

54-133

61-133

61-130

63-131

63-131

63-131

70-130

5.43

5.45

5 51

6.44

5.57

5.86

ND

ND

ND

ND

ND

ND



Prepared: 08/09/23 Analyzed: 08/10/23

20

20

20

20

20

20

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	8/11/2023 2:17:05PM

Carlsbad NM, 88220		Project Manage	r: Ge	eorgeann Goo	odman			8/1	1/2023 2:17:05PM
	Nor	halogenated	Organics	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
		g Kg	g/Kg		70	70	70	70	TVOICS
Blank (2332063-BLK1)							Prepared: 0	8/09/23 Anal	yzed: 08/10/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.61		8.00		82.6	70-130			
LCS (2332063-BS2)							Prepared: 0	8/09/23 Anal	yzed: 08/10/23
Gasoline Range Organics (C6-C10)	46.7	20.0	50.0		93.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.87		8.00		85.9	70-130			
Matrix Spike (2332063-MS2)				Source:	E308057-	08	Prepared: 0	8/09/23 Anal	yzed: 08/10/23
Gasoline Range Organics (C6-C10)	44.1	20.0	50.0	ND	88.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.74		8.00		84.2	70-130			
Matrix Spike Dup (2332063-MSD2)				Source:	E308057-	08	Prepared: 0	8/09/23 Anal	yzed: 08/10/23
Gasoline Range Organics (C6-C10)	45.2	20.0	50.0	ND	90.3	70-130	2.43	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.78		8.00		84.7	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	8/11/2023 2:17:05PM

Carlsbad NM, 88220		Project Manager	r: Ge	orgeann Goo	dman				8/11/2023 2:17:05PN
	Nonha	logenated Or	ganics by l	EPA 8015I) - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2332062-BLK1)							Prepared: 0	8/09/23 An	nalyzed: 08/10/23
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	46.9		50.0		93.8	50-200			
LCS (2332062-BS1)							Prepared: 0	8/09/23 An	nalyzed: 08/10/23
Diesel Range Organics (C10-C28)	236	25.0	250		94.3	38-132			
urrogate: n-Nonane	44.2		50.0		88.4	50-200			
Matrix Spike (2332062-MS1)				Source:	E308057-0	02	Prepared: 0	8/09/23 An	nalyzed: 08/10/23
Diesel Range Organics (C10-C28)	238	25.0	250	ND	95.1	38-132			
urrogate: n-Nonane	42.2		50.0		84.4	50-200			
Matrix Spike Dup (2332062-MSD1)				Source:	E308057-	02	Prepared: 0	8/09/23 An	nalyzed: 08/10/23
Diesel Range Organics (C10-C28)	241	25.0	250	ND	96.5	38-132	1.42	20	
hurrogate: n-Nonane	43.1		50.0		86.2	50-200			



Matrix Spike Dup (2332071-MSD1)

Chloride

QC Summary Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220		Project Name: Project Number Project Manage	: 21	BL Pad #6 .022-0001 eorgeann Goo	dman				Reported: 8/11/2023 2:17:05PM		
		Anions	s by EPA 3	300.0/9056 <i>A</i>	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 (2332071-BLK1)							Prepared: 0	8/09/23 A	nalyzed: 08/10/23		
Chloride	ND	20.0									
LCS (2332071-BS1)							Prepared: 0	8/09/23 A	nalyzed: 08/10/23		
Chloride	247	20.0	250		98.8	90-110					
Matrix Spike (2332071-MS1)				Source:	E308057-	01	Prepared: 0	8/09/23 A	nalyzed: 08/10/23		
Chloride	383	20.0	250	180	81.4	80-120					

250

20.0

Source: E308057-01

82.9

80-120

0.966

180

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: 08/09/23 Analyzed: 08/10/23

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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	08/11/23 14:17

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.



4	Received by
	l by
	OCD:
	8/18/2023
	9:54:55
	AN

Bill To Attention: U. S. Com Inc Address: 124 Standpipe City, State, Zip Carl Shad NM Phone: Bill To Attention: U. S. Com Inc Address: 124 Standpipe City, State, Zip Carl Shad NM Phone: Email: Dail: Out Geann. good Man	Page 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	WO#	# 05	7		umber		2D	3D	Standard		
dress: 7 City, State, Zip Carls bad NM Phone: phone: 57577513 \ Fmail:	8015		03		4100				30	Stanuaru	CWA	SDWA
y, State, Zip — Phone:	y 8015					27-000 is and Met		4		1		RCRA
one: 57572513 \ Fmail:	y 8015				T T	IS dire wice	1	T	1			Henry
ail Outlas ou h. acod Wille	y 80	8015									State	
100	.0	by 80	21	90	0	0.00	Σ				UT AZ	TX
port due by: Descominc.com	- SRO	ORO I	oy 80	y 826	s 601	de 30		-		X		
Time Date mpled Sampled Matrix No. of Containers Sample ID Lab Numb	DRO/ORO	GRO/DRO	ВТЕХ ЬУ 802.	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC	верос			Remarks	
54 817/3 S 1 CONF 38A							X					
57 1 1 CONF 39A 2							X					
3 1 Conf 42A							Х					
05 1 CONF 43A 4							X					
208 1 CONF 44A 5							X					
21) 1 Conf 45A							Х		170			
213 1 Conf 410A 7							X					
217 1 Conf 47A 8							X					
200 1 Conf 48A 9							Y					-
223 V V 1 CONF 51A 10							У					
ditional Instructions:												
ield sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the	cample	locatio	20		Samples	requiring ther	mal prese	rvation	must be re	eceived on ice the c	av they are sar	noled or
e or time of collection is considered fraud and may be grounds for legal action. Sampled by:	sample	locatio	л,		20000000					less than 6 °C on su		
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	ner Typ		-	_		astic, ag - a	mber i	glass,	v - VO	A		
te: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samp								lient e	xpense.	. The report fo	r the analys	is of the



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

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Sampled	Sampled	Matrix	Containers	Sample ID			Number	DRO,	GRO,	BTEX	VOC	Meta	Chlor		BGDOC	верос			Remar	(S
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Relinquish	ed by: (Sign	mature)	Date S.	9.23	2300	Reseived by: (Signature)	8/10	23	7:	00)	AVG	Ten	1p °C	4					
Sample Ma	trix: S - Soil, S	Sd - Solid, Sg	- Sludge, A -	Aqueous, O - O		W-W-	Contain	er Typ	e: g -	glass	s, p - p	ooly/p	lasti	c, ag - an						
						ther arrangements are made. Hazar										ent e	kpense	. The repor	t for the anal	ysis of the
above san	iples is app	licable only	to those s	amples receive	ed by the labo	ratory with this COC. The liability of t	ne laborator	y is lim	nited t	o the	amou	nt paid	d for a	on the rep	port.					



Printed: 8/10/2023 9:12:47AM

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.

				1	,		
Client:	Kaiser Francis Oil Company	Date Received:	08/10/23 0	7:00	Work Orde	r ID:	E308057
Phone:	575-725-1311	Date Logged In:	08/09/23 14	4:53	Logged In	By:	Alexa Michaels
Email:	georgeann.goodman@wesominc.com	Due Date:	08/10/23 1	7:00 (0 day TAT)			
Chain of	Custody (COC)						
	e sample ID match the COC?		Yes				
	e number of samples per sampling site location mat	ch the COC					
	mples dropped off by client or carrier?		Yes Yes	Comion C	Saumian		
	COC complete, i.e., signatures, dates/times, reques	ted analyses?	Yes	Carrier: <u>C</u>	<u>Journer</u>		
	I samples received within holding time?	ica anaryses:	Yes				
3. Were ar	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssion		103		<u>Cor</u>	nmen	ts/Resolution
Sample To	urn Around Time (TAT)						
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes		Project NBL Pad #	6 has	s been split into two
Sample C	<u>ooler</u>				work orders due to	high	n sample volume
7. Was a s	ample cooler received?		Yes		amount. Work orde	ers at	re E308056 and
8. If yes, v	vas cooler received in good condition?		Yes		E308057.	, , , , , , , , , , , , , , , , , , ,	
9. Was the	sample(s) received intact, i.e., not broken?		Yes		E300037.		
10. Were	custody/security seals present?		No				
	were custody/security seals intact?		NA				
	sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling isible ice, record the temperature. Actual sample	received w/i 15	Yes				
		temperature: 4 t	<u> </u>				
Sample C			Ma				
-	ueous VOC samples present? OC samples collected in VOA Vials?		No NA				
	head space less than 6-8 mm (pea sized or less)?		NA NA				
			NA NA				
	trip blank (TB) included for VOC analyses?						
	on-VOC samples collected in the correct containers? ppropriate volume/weight or number of sample contain		Yes Yes				
Field Lab	•	ers conected:	165				
	ield sample labels filled out with the minimum info	rmation:					
	mple ID?	ination.	Yes				
Da	nte/Time Collected?		Yes				
Co	ollectors name?		Yes				
	<u>reservation</u>						
21. Does t	he COC or field labels indicate the samples were pr	eserved?	No				
	mple(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved m	etals?	No				
Multipha	se Sample Matrix						
26. Does t	he sample have more than one phase, i.e., multiphas	e?	No				
27. If yes,	does the COC specify which phase(s) is to be analy	zed?	NA				
Subcontra	act Laboratory						
	mples required to get sent to a subcontract laborator	v?	No				
	subcontract laboratory specified by the client and if	•		Subcontract Lab	o: NA		
Client In	struction						
CHCHTII	struction.						

Date

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

image005.jpg image006.png image007.png image008.png image009.png

Georgann,

Attachments:

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

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

Shar Harvester

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>

Sent: Wednesday, August 2, 2023 10:14 AM

To: Shar Harvester

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

Good morning Shar,

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, August 1, 2023 5:31 PM

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

Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>; 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 will be conducting confirmation sampling at the North Bell Lake Pad 6 (nAPP2234143414) on Friday, August 4 through Tuesday, August 8, 2023.

Thanks,

Shar Harvester, Environmental Operations President **O** (218) 724-1322 | **C** (218) 355-8047 | Shar.harvester@WescomInc.com | shar.harvester@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 254001

CONDITIONS

Operator:	OGRID:
KAISER-FRANCIS OIL CO	12361
PO Box 21468	Action Number:
Tulsa, OK 74121146	254001
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created	Condition	Condition Date
Ву		
nvelez	Remediation has met 19.15.29 NMAC requirements. Soil impacts exceeding the reclamation standards have been left in place and are required to meet 19.15.29.13D (1) NMAC once the site is no longer reasonably needed for production or subsequent drilling operations.	11/20/2023