

## DEFERRAL REQUEST

## KAISER-FRANCIS OIL COMPANY

Created for submission to New Mexico Oil Conservation Division on 09/09/2022

ASHLEY GIOVENGO
Project Environmental Scientist

**ENERGIZING AMERICA** 

September 09, 2022

### Bradford Billings, Robert Hamlet, Jennifer Nobui, and/or Nelson Velez

State of New Mexico
Energy, Minerals, and Natural Resources
New Mexico Oil Conservation Division
811 South First Street
Artesia, New Mexico 88210

### RE: DEFERRAL REQUEST

**COMPANY** Kaiser-Francis Oil Company

**LOCATION** Red Hills Facility Pad 1

**API** 30-025-45383

PLSS Unit L Sec 31 T25S R33E

**GPS** 32.0858301, -103.6186257

INCIDENT ID nAPP2212768697

### BACKGROUND

Wescom, Inc., hereafter referred to as Wescom, has prepared this Deferral Request on behalf of Kaiser-Francis Oil Company, hereafter referred to as KFOC, regarding the release at the Red Hills Facility Pad 1 (Site) located in Unit L, Section 31, Township 25 South and Range 33 East in Lea County, New Mexico. The GPS coordinates are as follows: North 32.0858301 and West -103.6186257. Surface owner of the Site is Bureau of Land Management (BLM). The Site falls within New Mexico Oil Conservation Division (NMOCD), District 1 Hobbs.

On May 7, 2022, an inlet to the free water knock out was left open which resulted in the release of 1,060 barrels (bbls) of produced water. The spill originated on the West side of the 6X20 separator and followed the high-pressure flow lines across the caliche pad. Produced water accumulated within the flare containment until the earthen berm was breached. The spill impacted 21,955 square feet (sq. ft) of the caliche pad and 5,061 sq. ft of native soils off-pad (see Figure 1). KFOC immediately isolated the source of the leak and approximately 980 bbls of produced water was recovered.

Wescom personnel arrived onsite on May 12, 2022, to begin excavation of the off-pad spill area and to collect confirmation samples. The off-pad spill area was remediated in accordance with the reclamation standard for off-pad spill areas per 19.15.29.13 NMAC. A variance request was submitted to NMOCD and the BLM on May 18, 2022, to establish the size of the confirmation sampling areas. NMOCD approved a sampling variance for every 400 sq. ft on May 19, 2022. Wescom personnel returned to the Site on June 07, 2022, to complete delineation of the on-pad spill area.

Remediation of the on-pad spill area began on July 14, 2022 and was completed on July 19, 2022. Confirmation samples were collected every 400 sq. ft on pad and contaminated soil was hauled to an approved disposal facility. A deferral report was submitted to the NMOCD on July 29, 2022, and on August 09, 2022, KFOC personnel received email notification that the deferral request had been denied for the following reasons:

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2212768697, for the following reasons:

 Deferral Denied. Additional delineation data needed for deferral approval. Deferred area needs to be reduced; area between SS07 and Flare unit can be addressed. Please resubmit a revised Deferral Request by September 9, 2022.

Wescom personnel returned to the Site on August 18, 2022, in order reduce the size of the deferral area and to collect additional horizontal delineation samples. Remediation of the flare containment was completed on August 24, 2022 and confirmation samples were collected at various times throughout the five-day sampling and excavation period. Removal of impacted soils beneath the high-pressure flare and flare lines could not be achieved without the deconstruction of production equipment. Impacted soils do not pose an imminent risk to human health, safety, or the environment; therefore, KFOC respectfully requests deferral for the removal of those soils until the Site is abandoned and the facilities are removed.

### SURFACE & GROUND WATER

The New Mexico Office of the State Engineer (OSE) records indicates the nearest depth to groundwater measurement is 280 feet below ground surface (bgs) and is 1.0-mile East 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 medium karst potential as shown in Attachment D. There are no indicators of karst around the Site surface.

### TARGET REMEDIAL LEVELS

The target cleanup levels are determined using the NMOCD Closure Criteria (19.15.29.12.B(4) and Table 1 NMAC, inserted below) including karst guidelines from the Bureau of Land Management. This Site is in the medium karst potential zone and therefore, the applicable Recommended Remediation Action Levels (RRALs) are 10 parts per million (ppm) Benzene, 50 ppm combined benzene, toluene, ethyl benzene, and xylene (BTEX), 100 ppm Total Petroleum Hydrocarbons (TPH) and chloride concentrations at or below 600 mg/kg (ppm).

Closure Criteria (19.15.29.12.B(4) and Table 1 NMAC)						
Red Hills I	Red Hills Facility Pad 1 — 32.0858301, -103.618257					
Depth to Groundwater		Clo	sure Criteria	(unites 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		20000	2500	1000	50	10
Surface Water	Yes or No		If ye	s, then		
< 300 feet from continuously flowing watercourse or	No					
other significant watercourse?						
< 200 feet from lakebed, sinkhole or playa lake	No					
Water Well or Water Source						
< 500 feet from spring or a private, domestic fresh water						
well used by less than 5 households for domestic or stock	No					
watering purposes?						
< 1000 feet from fresh water well or spring?	No					
Human and Other Areas						
< 300 feet from an occupied permanent residence,						
school, hospital, institution or church?	No					
Within incorporated municipal boundaries or within a	NI-					
defined municipal fresh water well field?	No					
< 100 feet from wetland?	No					
Within area overlying a subsurface mine?	No					
Within an unstable area?	No					
Within a 100-year floodplan?	No					

Table: Closure Criteria Statistics

### SITE ASSESSMENT AND DELINEATION

On May 08, 2022, KFOC contracted Wescom to begin remediation of the off-pad spill area. A Sampling variance was requested by KFOC on May 18, 2022 and approved by Crisha Morgan of BLM on the same day, Attachment F. A background sample, BG01, was collected 90 feet to the Southeast of the flare containment, as shown in Figure 3. Wescom personnel returned to the Site on June 07, 2022, to complete horizontal and vertical delineation of the on-pad spill area. A total of nine samples were jarred and sent to Envirotech, Inc, for laboratory analysis and all samples were below the applicable RRALs for the Site.

Wescom personnel returned to the Site on August 18, 2022, to continue excavation of the on-pad spill area and to begin the excavation of contaminated soils inside the flare containment. Four additional horizontal

delineation samples were collected on August 23, 2022, to verify the extent of the spill area and to address concerns held by the NMOCD about the size of the deferral area. 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 May 12, 2022, Wescom personnel arrived on-site to oversee the removal of impacted soils and to perform confirmation sampling. A backhoe was used to remove approximately 660 cubic yards of contaminated soil from the off-pad spill area. A total of 25 composite confirmation samples were collected over the 3-day sampling and excavation period. All the confirmation samples were below the applicable RRALs for the Site (see Table 2). Confirmation sample locations are presented in Figure 2 and laboratory analytical reports are included in Attachment E.

Wescom personnel arrived onsite on July 08, 2022, to complete remediation of the on-pad spill area. Approximately 1,600 cubic yards of soil was removed from the spill area and a total of 21 confirmation samples were collected. All the confirmation samples were below the applicable RRALs for the Site except CONF42 and CONF43 (see Table 2). Wescom personnel returned to the Site on July 18, 2022, to re-scrape confirmation areas 42 and 43.

Remediation of the flare containment began on August 18, 2022 and was completed on August 23, 2022. Approximately 620 cubic yards of contaminated soil was removed from the flare containment and from the edge of the caliche pad. Wescom personnel collected ten additional confirmation samples – CONF47 through CONF56 - and all were below the applicable RRALs for the Site. Confirmation sample locations are presented in Figure 3 and laboratory analytical reports are included in Attachment E.

All soil samples were properly packaged, preserved, and transported to Envirotech, Inc. by chain of custody, and analyzed for Total Petroleum Hydrocarbons, or TPH, —Method 8015D, BTEX—Method 8021B, and Chlorides—Method 300.0. Confirmation sample locations are presented in Figures 2 and 3; laboratory analysis results are presented in Table 2 and laboratory analytical reports are included in Attachment E. Impacted material was disposed of at an approved disposal facility.

The required 48-hour confirmation sampling notifications were sent on May 16, July 05, July 11, July 19, 2022 and again on August 11, and August 18, 2022, to Chad Hensley, Bradford Billings, Mike Bratcher, Robert Hamlet, Jennifer Nobui, and Nelson Velez, with the NMOCD in Santa Fe, New Mexico and are included in Attachment G.

### REOUEST FOR DEFERRAL

On behalf of KFOC, Wescom requests to defer approximately 1,500 cubic yards of contaminated soil around the high-pressure flare and beneath the fare lines until the Red Hills Facility Pad 1 is abandoned and reclamation activities commence based on the logic below.

- Deferral area between SS07 and the flare has been reduced as requested and shown in Figure 4.
- Due to the location of the contaminated soil beneath the high-pressure flare and beneath the high-pressure flare lines, it is not practical to remove impacted soil for remediation. The flare is currently active and would require shutting in production equipment for an extended period to remove substrate. Area of requested deferral is shown in Figure 4.
- The on-pad and off-pad spill areas have been horizontally and vertically delineated.
- Excavation of the accessible on-pad and off-pad spill areas has been completed in accordance with the medium cave/karst guidelines set forth by the BLM and in accordance with the strictest criteria on Table 1 NMAC.
- All confirmation areas and samples on-pad and off-pad are below applicable RRALs for the Site.
- Accessible 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. Ashley Giovengo at (505) 382-1211.

Sincerely,

Wescom, Inc.

#### **Ashley Giovengo**

**Project Environmental Scientist** 

cc: Aaron Daniels, Kaiser-Francis Oil Company

Hutton Andrew, Kaiser-Francis Oil Company

Bradford Billings, NMOCD

Robert Hamlet, NMOCD

Jennifer Nobui, NMOCD

Nelson Velez, NMOCD

# REFERENCE MATERIALS

### FIGURES

FIGURE 1. Delineation Sampling

FIGURE 2. Confirmation Sampling: Off-Pad

FIGURE 3. Confirmation Sampling: On-Pad

FIGURE 4. Area of Requested Deferral

### TABLES

 TABLE 1.
 Laboratory Analysis Results: Delineation Samples

TABLE 2. Laboratory Analysis Results: Confirmation Samples

### ATTACHMENTS

ATTACHMENT A. C-141

**ATTACHMENT B.** Site Photos

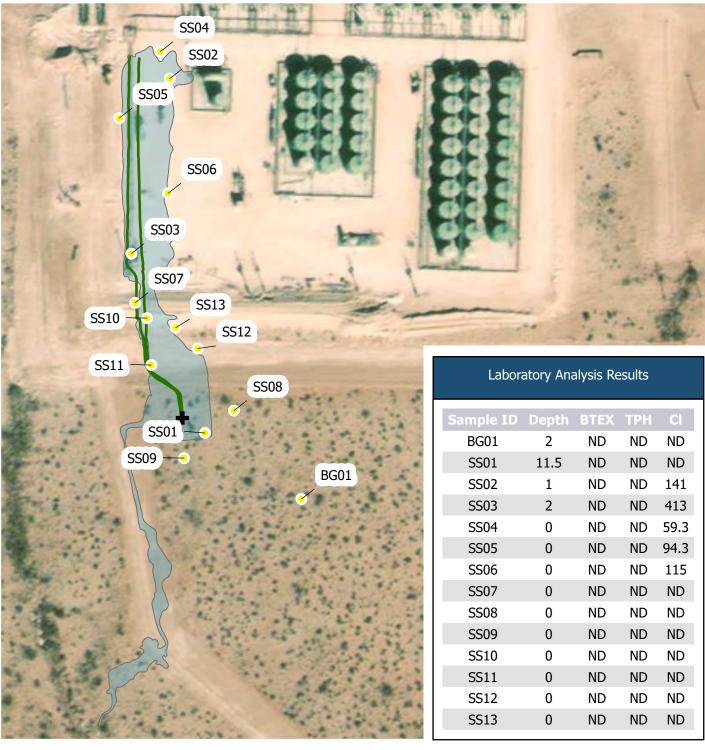
**ATTACHMENT C.** Closure Criteria Supporting Documents

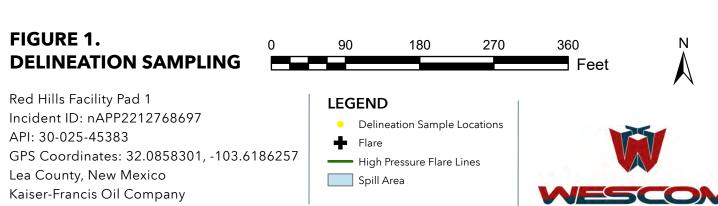
**ATTACHMENT D.** Karst Map

**ATTACHMENT E.** Envirotech Inc. Laboratory Analysis Reports **ATTACHMENT F.** Confirmation Sampling Variance Request

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

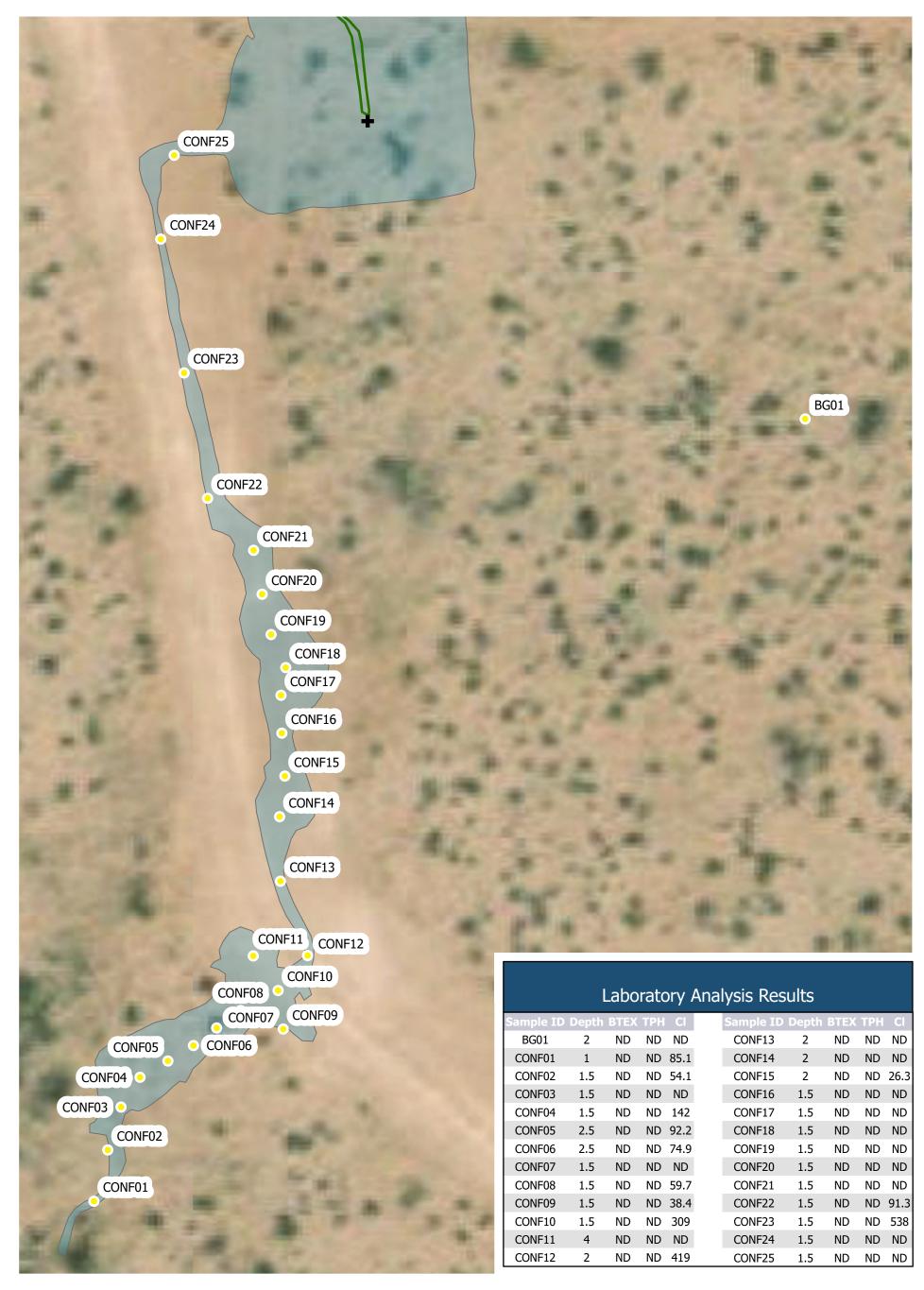
# **FIGURES**





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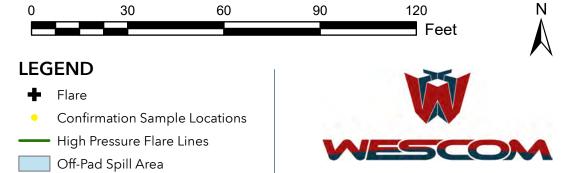
# FIGURE 2. CONFIRMATION SAMPLING (OFF-PAD)

Red Hills Facility Pad 1 Incident ID: nAPP2212768697

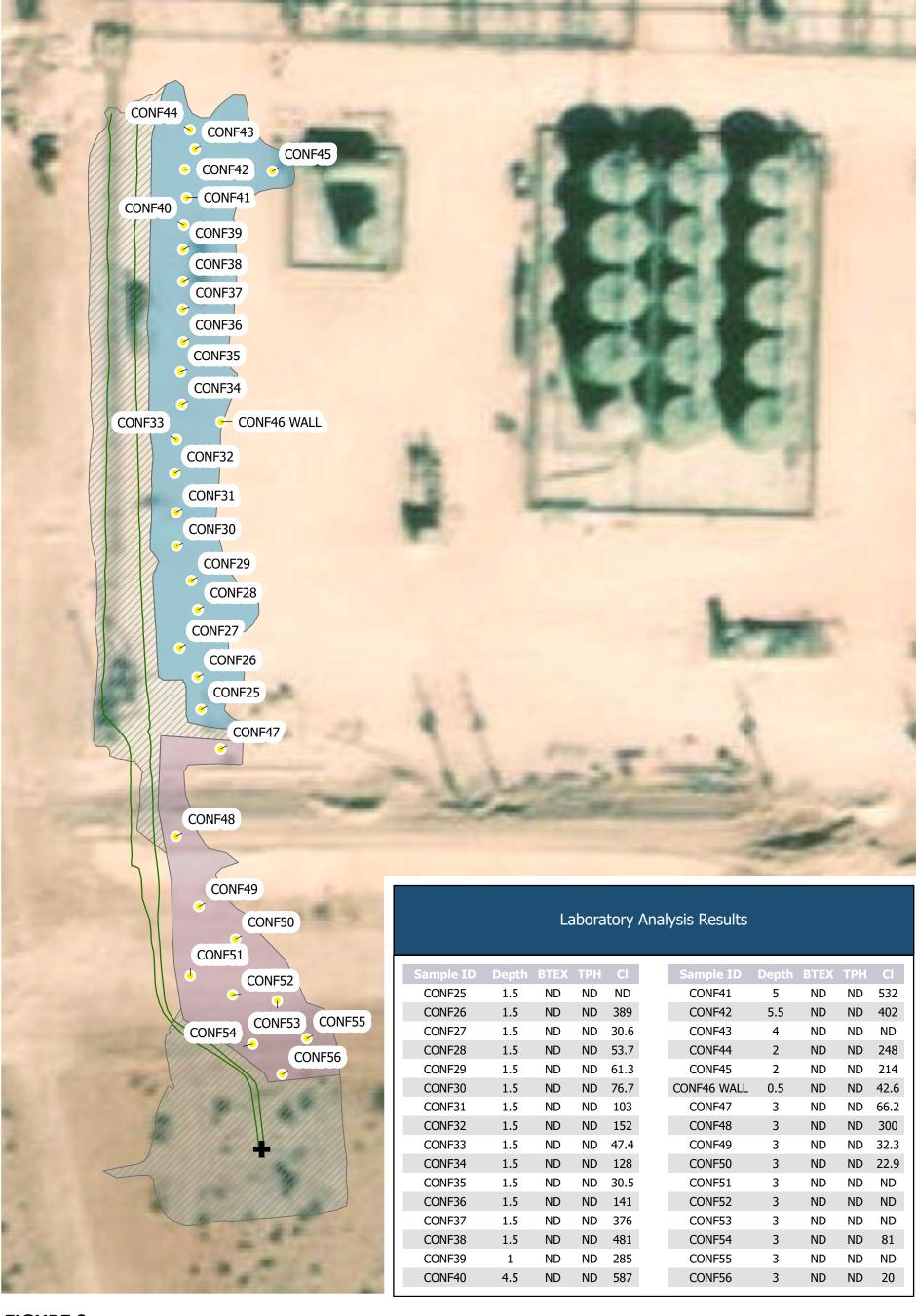
API: 30-025-45383

GPS Coordinates: 32.0858301, -103.6186257

Lea County, New Mexico Kaiser-Francis Oil Company



Received by OCD: 9/9/2022 1:54:12 PM



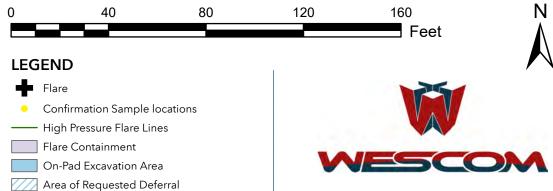
# FIGURE 3. CONFIRMATION SAMPLING (ON-PAD)

Red Hills Facility Pad 1 Incident ID: nAPP2212768697

API: 30-025-45383

GPS Coordinates: 32.0858301, -103.6186257

Lea County, New Mexico Kaiser-Francis Oil Company



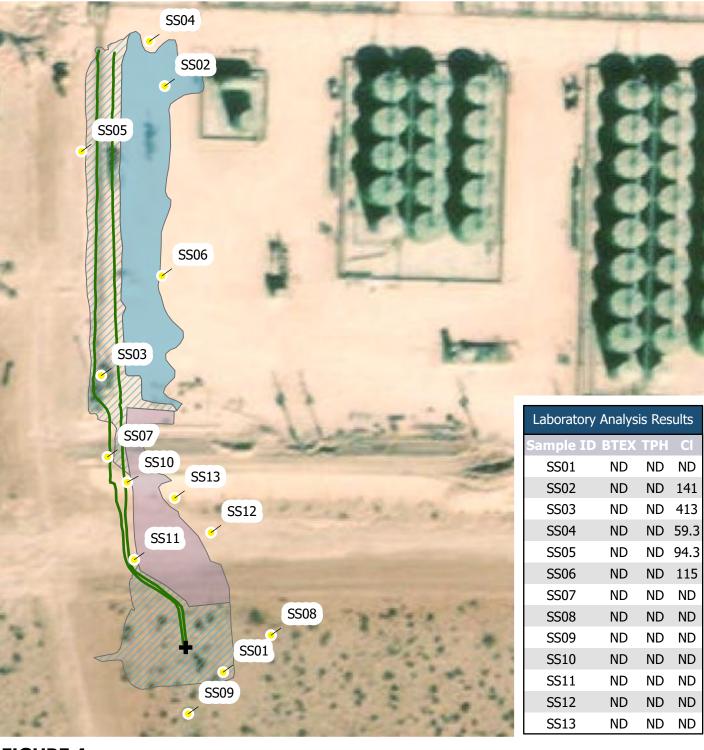


FIGURE 4.
AREA OF REQUESTED DEFERRAL

Red Hills Facility Pad 1

Incident ID: nAPP2212768697

API: 30-025-45383

GPS Coordinates: 32.0858301, -103.6186257

Lea County, New Mexico Kaiser-Francis Oil Company

## 0 50 100 150 200 Feet

#### **LEGEND**

Delineation Sample Locations

**➡** Flare

Flare Containment

High Pressure Flare Lines

On-Pad Spill Area

Area of Requested Deferral





# **TABLES**

	Red Hill:	s Facilit	y Pad 1	nAP	P2212768697	•
					09.09.2022	
Table					elineation San	nples
Sam	ple Descrip	tion	Petr	oleum H	ydrocarbons	Inorganic
			Vola	tile	Extractable	
				BTEX		
			Benzene	(total)	TPH	Chloride
Sample ID	Depth (ft.)	Date	(mk/kg)	(mk/kg)	(mk/kg)	(mk/kg)
Clo	sure Criter	ia	10	50	100	600
BG01	0	5/12/2022	ND	ND	ND	ND
BG01	1	5/12/2022	ND	ND	ND	ND
BG01	2	5/12/2022	ND	ND	ND	ND
SS01	11	5/16/2022	ND	ND	ND	ND
SS01	11.5	5/16/2022	ND	ND	ND	ND
SS02	1	6/7/2022	ND	ND	ND	141
SS03	2	6/7/2022	ND	ND	ND	413
SS04	0	6/7/2022	ND	ND	ND	59.3
SS05	0	6/7/2022	ND	ND	ND	94.3
SS06	0	6/7/2022	ND	ND	ND	115
SS07	0	6/7/2022	ND	ND	ND	ND
SS08	0	6/7/2022	ND	ND	ND	ND
SS09	0	6/7/2022	ND	ND	ND	ND
SS10	0	8/23/2022	ND	ND	ND	ND
SS11	0	8/23/2022	ND	ND	ND	ND
SS12	0	8/23/2022	ND	ND	ND	ND
SS13	0	8/23/2022	ND	ND	ND	ND
ABBREVIAT						
BTEX — Benze	ne, Toluene, Eth	nylene, Xylene		GRO — Gas	soline Range Organics	
	Range Organics	5		ND — Non-	-detect	
ft. — Feet				mg/kg — N	lilligrams per Kilogram	
TPH — Total Petroleum Hydrocarbons						

TPH — Total Petroleum Hydrocarbons

### Notes

**Bold Red** - Results are above closure criteria

Gray Highlight - Background Samples

Re	d Hills Fa	acility P	ad 1   r	nAPP22	212768697	7
	Kaiser-F	rancis Oil	Compai	ny   09.	09.2022	
Table 2. I					rmation Sa	mples
Sampl	le Descripti	on	Petrole	eum Hyd	rocarbons	Inorganic
			Vola	tile	Extractable	
				BTEX		
			Benzene	(total)	TPH	Chloride
Sample ID	Depth (ft.)	Date	(mk/kg)	(mk/kg)	(mk/kg)	(mk/kg)
Clos	ure Criteria		10	50	100	600
CONF01	1	5/13/2022	ND	ND	ND	85.1
CONF02	1.5	5/13/2022	ND	ND	ND	54.1
CONF03	1.5	5/13/2022	ND	ND	ND	ND
CONF04	1.5	5/13/2022	ND	ND	ND	142
CONF05	2.5	5/13/2022	ND	ND	ND	92.2
CONF06	2.5	5/13/2022	ND	ND	ND	74.9
CONF07	1.5	5/13/2022	ND	ND	ND	ND
CONF08	1.5	5/13/2022	ND	ND	ND	59.7
CONF09	1.5	5/13/2022	ND	ND	ND	38.4
CONF10	1.5	5/13/2022	ND	ND	ND	309
CONF11	4	5/13/2022	ND	ND	ND	ND
CONF12	2	5/16/2022	ND	ND	ND	419
CONF13	2	5/16/2022	ND	ND	ND	ND
CONF14	2	5/16/2022	ND	ND	ND	ND
CONF15	2	5/16/2022	ND	ND	ND	26.3
CONF16	1.5	5/16/2022	ND	ND	ND	ND
CONF17	1.5	5/16/2022	ND	ND	ND	ND
CONF18	1.5	5/16/2022	ND	ND	ND	ND
CONF19	1.5	5/16/2022	ND	ND	ND	ND
CONF20	1.5	5/16/2022	ND	ND	ND	ND
CONF21	1.5	5/16/2022	ND	ND	ND	ND
CONF22	1.5	5/16/2022	ND	ND	ND	91.3
ABBREVIATION	NS					
BTEX — Benzene, 1	_	ne, Xylene		GRO — Ga	soline Range Orga	anics
DRO — Diesel Rang	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

Re	d Hills Fa	acility P	ad 1   r	nAPP22	212768697	7
	Kaiser-F	rancis Oil	Compa	ny   09.	09.2022	
Table 2. I	Laborator	y Analysi	s Result	s: Confi	rmation Sa	mples
Samp	le Descriptio	on	Petrole	eum Hyd	rocarbons	Inorganic
			Vola	tile	Extractable	
				BTEX		
			Benzene	(total)	TPH	Chloride
Sample ID	Depth (ft.)	Date	(mk/kg)	(mk/kg)	(mk/kg)	(mk/kg)
Clos	ure Criteria		10	50	100	600
CONF23	1.5	5/16/2022	ND	ND	ND	538
CONF24	1.5	5/16/2022	ND	ND	ND	ND
CONF25	1.5	5/16/2022	ND	ND	ND	ND
CONF25	1.5	7/14/2022	ND	ND	ND	24.5
CONF26	1.5	7/14/2022	ND	ND	ND	389
CONF27	1.5	7/14/2022	ND	ND	ND	30.6
CONF28	1.5	7/14/2022	ND	ND	ND	53.7
CONF29	1.5	7/14/2022	ND	ND	ND	61.3
CONF30	1.5	7/14/2022	ND	ND	ND	76.7
CONF31	1.5	7/14/2022	ND	ND	ND	103
CONF32	1.5	7/14/2022	ND	ND	ND	152
CONF33	1.5	7/14/2022	ND	ND	ND	47.4
CONF34	1.5	7/14/2022	ND	ND	ND	128
CONF35	1.5	7/14/2022	ND	ND	ND	30.5
CONF36	1.5	7/14/2022	ND	ND	ND	141
CONF37	1.5	7/14/2022	ND	ND	ND	376
CONF38	1.5	7/14/2022	ND	ND	ND	481
CONF39	1	7/14/2022	ND	ND	ND	285
CONF40	4.5	7/15/2022	ND	ND	ND	587
CONF41	5	7/15/2022	ND	ND	ND	532
CONF42	5	7/15/2022	ND	ND	ND	629
CONF42	5.5	7/19/2022	ND	ND	ND	402
ABBREVIATION						
BTEX — Benzene, 1	-	ne, Xylene		GRO — Ga	soline Range Orga	anics
	DRO — Diesel Range Organics ND — Non-detect					
ft. — Feet mg/kg — Milligrams per Kilogram						
TPH — Total Petroleum Hydrocarbons						
Notes	Notes					
<b>Bold Red</b> - Results						
Gray Highlight - Background Samples						



Re	Red Hills Facility Pad 1   nAPP2212768697					
		rancis Oil				
Table 2. I					rmation Sa	mples
Samp	le Description	on	Petrole	eum Hyd	rocarbons	Inorganic
			Vola	tile	Extractable	
				BTEX		
			Benzene	(total)	TPH	Chloride
Sample ID	Depth (ft.)	Date	(mk/kg)	(mk/kg)	(mk/kg)	(mk/kg)
Clos	ure Criteria		10	50	100	600
CONF43	2.5	7/15/2022	ND	ND	ND	653
CONF43	4	7/18/2022	ND	ND	ND	ND
CONF44	2	7/14/2022	ND	ND	ND	248
CONF45	2	7/14/2022	ND	ND	ND	214
CONF46 Wall	0.5	7/14/2022	ND	ND	ND	42.6
CONF47	3	8/18/2022	ND	ND	ND	66.2
CONF48	3	8/18/2022	ND	ND	ND	300
CONF49	3	8/18/2022	ND	ND	ND	32.3
CONF50	3	8/19/2022	ND	ND	ND	22.9
CONF51	3	8/19/2022	ND	ND	ND	ND
CONF52	3	8/19/2022	ND	ND	ND	ND
CONF53	3	8/23/2022	ND	ND	ND	ND
CONF54	3	8/23/2022	ND	ND	ND	81
CONF55	3	8/23/2022	ND	ND	ND	ND
CONF56	3	8/23/2022	ND	ND	ND	20
ABBREVIATION	NS					
BTEX — Benzene, 1	Toluene, Ethyler	ne, Xylene		GRO — Ga	soline Range Orga	anics
DRO — Diesel Range Organics				ND — Non	-detect	
ft. — Feet mg/kg — Milligrams per Kilogram				gram		
TPH — Total Petroleum Hydrocarbons						
Notes						
<b>Bold Red</b> - Results	are above closi	ure criteria				
Cray Highlight - Dackground Camples						

Gray Highlight - Background Samples

# ATTACHMENT A

Signed C-141

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

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	nAPP2212768697
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) nAPP2212768697	
Contact mailing address: 6733 S. Yale, Tulsa, OK 74136		

### **Location of Release Source**

Latitude 32.0858301

Longitude -103.6186257

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Red Hills Facility Pad 1	Site Type: Well Pad
Date Release Discovered: 05/07/2022	API# (if applicable) 30-025-45383

Unit Letter	Section	Township	Range	County
L	31	25S	33E	Lea

Surface Owner:	☐ State	☐ Tribal	Private

### Nature and Volume of Release

	al(s) Released (Select all that apply and attach calculations or specif	ic justification for the volumes provided below)
Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls) 1060	Volume Recovered (bbls) 980
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☒ No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release		
An inlet to the free water	r knock-out was left open.	
Spill volume calculation	was done using the Spill Volume Calculator mobile a	pplication in conjunction with water tank volume data.
1		

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Oil Conservation Division Page 2

	1 118 2 2 0 0 J
Incident ID	nAPP2212768697
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the responsible party consider this a major release?			
release as defined by 19.15.29.7(A) NMAC?	The produced water spill was >25 bbls			
⊠ Yes □ No				
If YES, was inmediate n	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?			
Yes, via online NOR to the NMOCD on 5/7/22				
	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.			
Released materials ha	ave been contained via the use of berms or dikes, absorbent pads, or other containment devices.			
All free liquids and r	ecoverable materials have been removed and managed appropriately.			
If all the actions describe	d above have <u>not</u> been undertaken, explain why:			
*	•			
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.				
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.				
Printed Name: Hullon At Signature:	Date: Date:			
email: huttona@kfoc.net				
OCD Only				
Received by:	Date:			

w Mexico Incident ID nAPP2212768697

Incident ID	nAPP2212768697
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?	_280 (ft bgs)			
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)?				
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?				
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?	☐ Yes ⊠ No			
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?				
Are the lateral extents of the release within a 100-year floodplain?				
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?				
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.				
Characterization Report Checklist: Each of the following items must be included in the report.				
<ul> <li>         \infty Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well         \infty Field data     </li> </ul>	ls.			
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				
☐ Bornig of excavation logs ☐ Photographs including date and GIS information				
▼ Topographic/Aerial maps				
☐ Laboratory data including chain of custody				

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

Form C-141 Page 4

# State of New Mexico Oil Conservation Division

Incident ID	nAPP2212768697
District RP	
Facility ID	
Application ID	

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: Alutton Andrew

Signature:

Date: 9/9/2/ZC

email: huttona@kfoc.net

Telephone: 918-491-4615

OCD Only

Received by: Jocelyn Harimon

Date: 09/09/2022

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

Form C-141 Page 5 State of New Mexico Oil Conservation Division

Incident ID	nAPP2212768697
District RP	
Facility ID	
Application ID	

## **Remediation Plan**

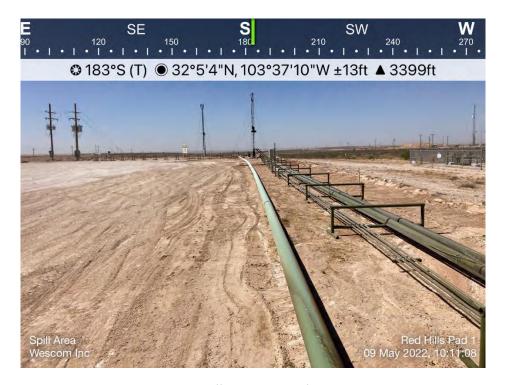
Remediation Plan Checklist: Each of the following items must be included in the plan.				
Detailed description of proposed remediation technique  Scaled sitemap with GPS coordinates showing delineation points  Estimated volume of material to be remediated  Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC  Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)				
Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.				
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.				
Extents of contamination must be fully delineated.				
○ Contamination does not cause an imminent risk to human health, the environment, or groundwater.				
I hereby certify that the information given above is true and complete rules and regulations all operators are required to report and/or file ce which may endanger public health or the environment. The acceptan liability should their operations have failed to adequately investigate surface water, human health or the environment. In addition, OCD a responsibility for compliance with any other federal, state, or local la Printed Name: Hutton Andrew  Signature: Signature: huttona@kfoc.net	ertain release notifications and perform corrective actions for releases ce of a C-141 report by the OCD does not relieve the operator of and remediate contamination that pose a threat to groundwater, ecceptance of a C-141 report does not relieve the operator of			
OCD Only				
Received by:Jocelyn Harimon	Date:09/09/2022			
Approved	Approval			
Signature: Jennifer Nobili	Date: 09/14/2022			

# ATTACHMENT B

Site Photos



Spill Area - On Pad



Spill Area - On Pad



Spill Area - On Pad



Spill Area - On Pad



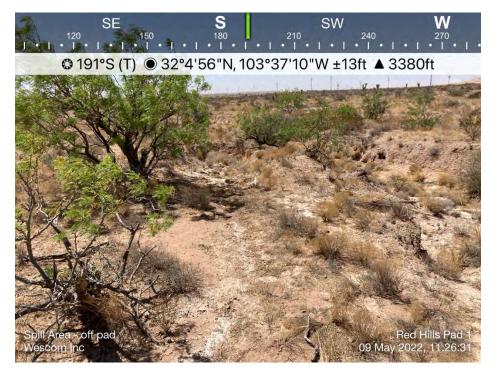
Spill Area - Off Pad



Spill Area - Off Pad



Spill Area - Off Pad



Spill Area - Off Pad



Excavated Area - Off Pad



Excavated Area - Off Pad



Excavated Area - Off Pad



Excavated Area - Off Pad



Excavated Area - Off Pad



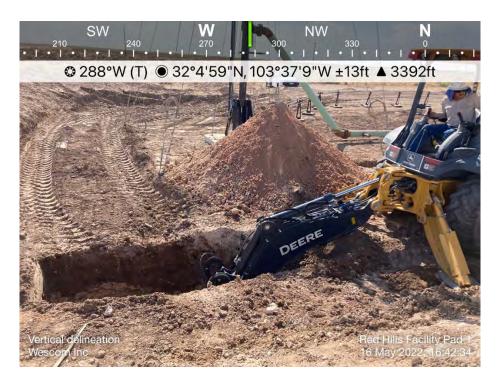
Excavated Area - Off Pad



Excavated Area - Off Pad



Excavated Area - Off Pad



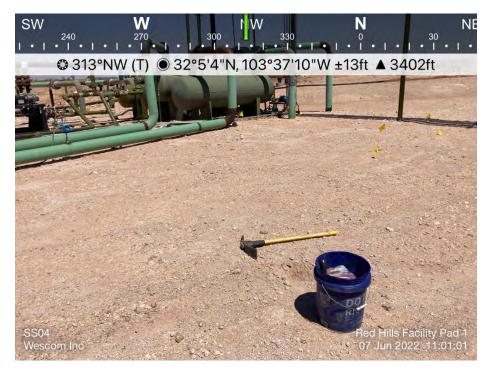
Vertical Delineation Sampling (SS01)



Vertical Delineation Sampling (SS02)



Vertical Delineation Sampling (SS03)



Horizontal Delineation Sampling (SS04)



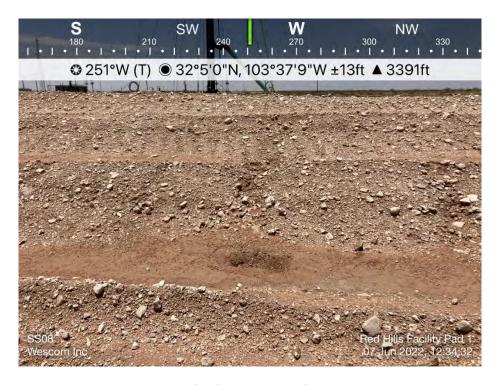
Horizontal Delineation Sampling (SS05)



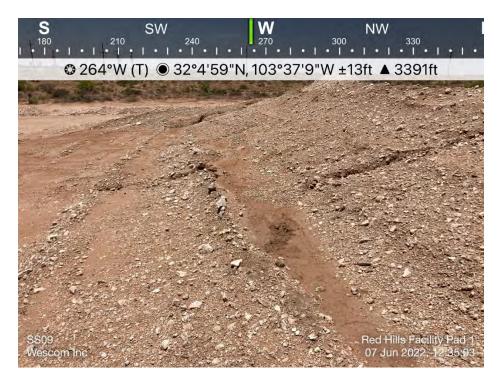
Horizontal Delineation Sampling (SS06)



Horizontal Delineation Sampling (SS07)



Horizontal Delineation Sampling (SS08)



Horizontal Delineation Sampling (SS09)



Excavated Area - On Pad



Excavated Area - On Pad



Excavated Area - On Pad



Excavated Area - On Pad



Excavated Area - On Pad Removal of Contaminated Soil



Excavation Around Electrical Line



Excavated Area - On Pad



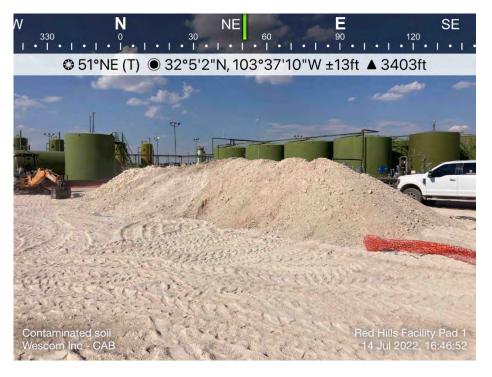
Excavated Area - On Pad



Excavated Area - On Pad



Excavated Area - On Pad



Contaminated Soil



Excavated Area - On Pad



Excavated Area - On Pad



Flare Containment



Flare Containment



Completed Excavation - Flare Containment

# ATTACHMENT C

Closure Criteria Supporting Documents



# New Mexico Office of the State Engineer **Point of Diversion Summary**

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number**  Q64 Q16 Q4 Sec Tws Rng

Υ X

20E6C

Log File Date:

C 04537 POD1

31 25S 33E

631847 3550243

**Driller License: Driller Company: ELITE DRILLERS CORPORATION** 1706

**PCW Rcv Date:** 

**Driller Name:** WALLACE, BRYCE J.LEE.NER

06/21/2021

**Drill Start Date:** 06/11/2021 **Drill Finish Date:** 06/12/2021

Plug Date:

Source:

Shallow

**Pump Type:** 

Pipe Discharge Size:

Estimated Yield: 5 GPM

**Casing Size: Depth Well:** 4.00

500 feet

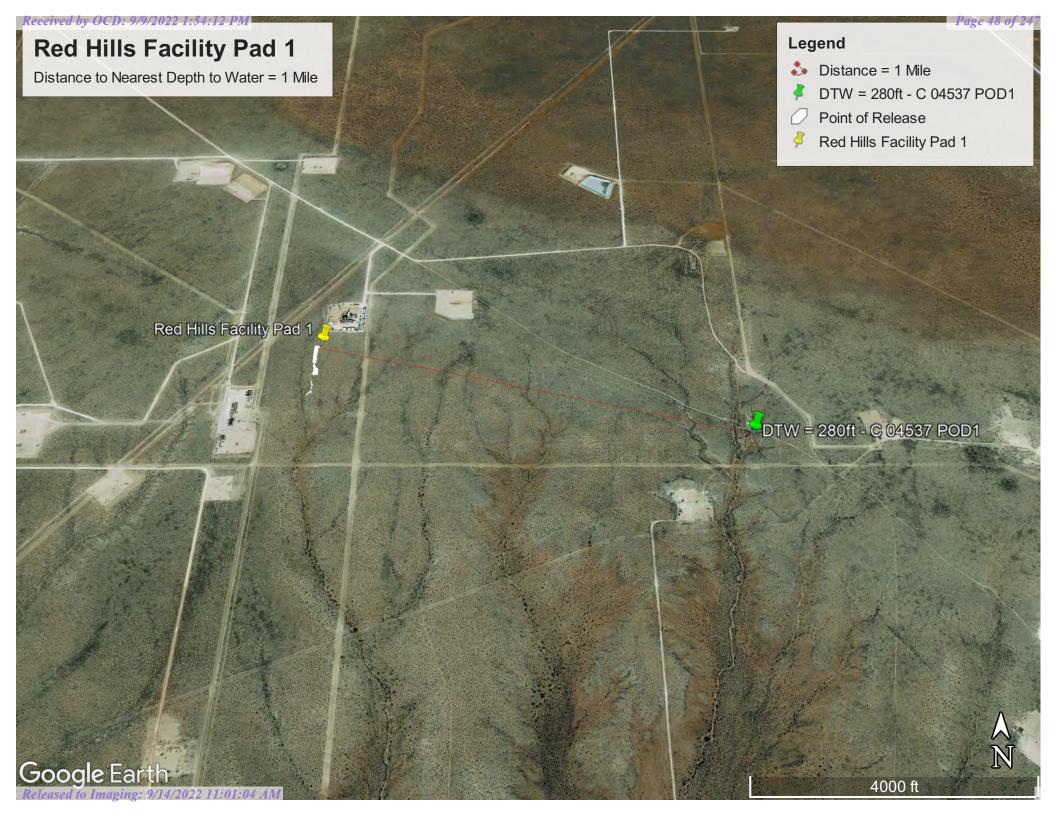
**Depth Water:** 280 feet

Water Bearing Stratifications: **Top Bottom Description** 

> 220 340 Sandstone/Gravel/Conglomerate

Top Bottom **Casing Perforations:** 

> 300 500



# U.S. Fish and Wildlife Service National Wetlands Inventory

#### Red Hills Federal 101H - Riverine 982 ft.



May 11, 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.

#### U.S. Fish and Wildlife Service

## National Wetlands Inventory

## Red Hills Federal 101H - FW Pond 10,511 ft.



May 11, 2022

#### Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

Lake

Other

Riverine

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



## Red Hills Federal 101H - Wetland 3,008 ft.



May 11, 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.



OReleas240 Imaging: 9/14/2022 PP.01:04 AM

# Received by OCD: 9/9/2022 1:54:12 PM National Flood Hazard Layer FIRMette





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

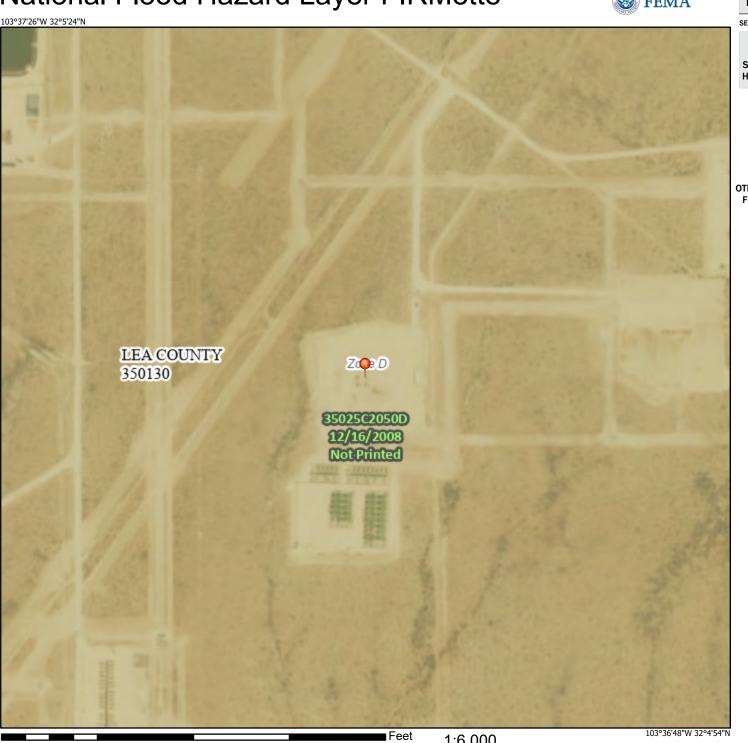
Without Base Flood Elevation (BFE) With BFE or Depth Zone AE, AO, AH, VE, AR SPECIAL FLOOD HAZARD AREAS Regulatory Floodway 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X **Future Conditions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

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

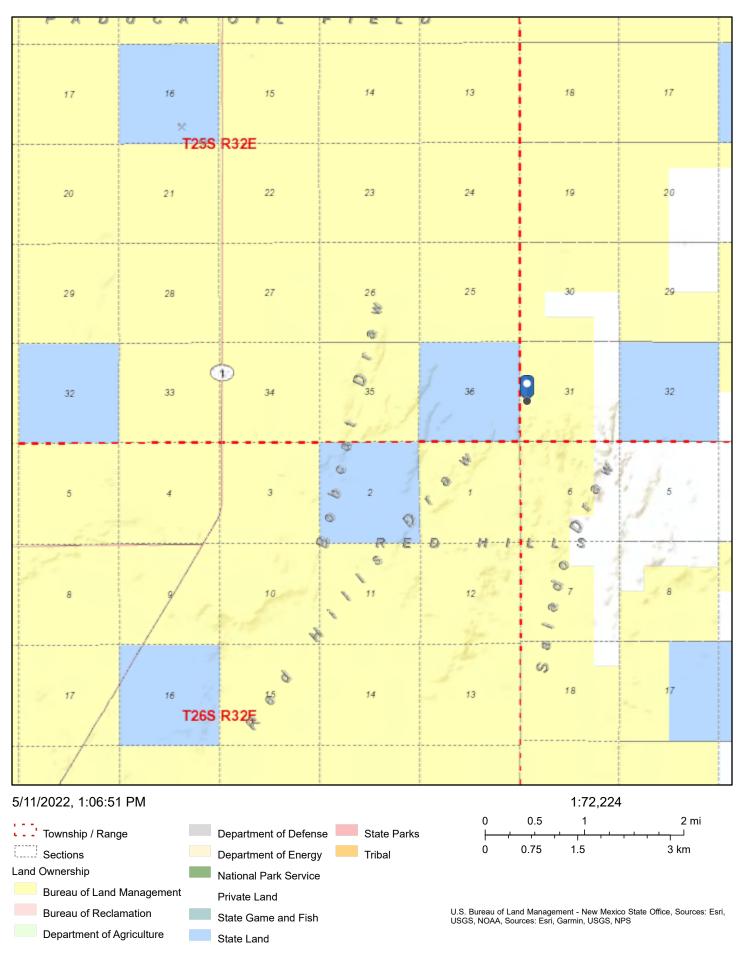
The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 5/11/2022 at 3:08 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

an authoritative property location.

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.



## Active Mines Near Red Hills Federal 101H



# 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: Red Hills Facility Pad 1 05.07.22

Spill

Work Order: E205057

Job Number: 21022-0001

Received: 5/13/2022

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 5/16/22

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

Date Reported: 5/16/22

Ashley Giovengo 1224 Standpipe Rd Carlsbad, NM 88220

Project Name: Red Hills Facility Pad 1 05.07.22 Spill

Workorder: E205057

Date Received: 5/13/2022 8:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/13/2022 8:15:00AM, under the Project Name: Red Hills Facility Pad 1 05.07.22 Spill.

The analytical test results summarized in this report with the Project Name: Red Hills Facility Pad 1 05.07.22 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

T 1 ' 1D

Technical Representative/Client Services

Office: 505-421-LABS(5227)

Cell: 505-320-4759

ljarboe@envirotech-inc.com

West Texas Midland/Odessa Area Rayny Hagan

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

Envirotech Web Address: www.envirotech-inc.com



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#### Sample Summary

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	Donoutoda
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	05/16/22 14:24

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
BG01 - 0'	E205057-01A Soil	05/12/22	05/13/22	Glass Jar, 4 oz.
BG01 - 1'	E205057-02A Soil	05/12/22	05/13/22	Glass Jar, 4 oz.
BG01 - 2'	E205057-03A Soil	05/12/22	05/13/22	Glass Jar, 4 oz.



## Sample Data

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	5/16/2022 2:24:29PM

#### BG01 - 0' E205057-01

	L203037 01				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Anal	yst: RKS		Batch: 2220047
ND	0.0250	1	05/13/22	05/13/22	
ND	0.0250	1	05/13/22	05/13/22	
ND	0.0250	1	05/13/22	05/13/22	
ND	0.0250	1	05/13/22	05/13/22	
ND	0.0500	1	05/13/22	05/13/22	
ND	0.0250	1	05/13/22	05/13/22	
	95.3 %	70-130	05/13/22	05/13/22	
mg/kg	mg/kg	Anal	yst: RKS		Batch: 2220047
ND	20.0	1	05/13/22	05/13/22	
	89.8 %	70-130	05/13/22	05/13/22	
mg/kg	mg/kg	Anal	yst: JL		Batch: 2220050
ND	25.0	1	05/13/22	05/13/22	
ND	50.0	1	05/13/22	05/13/22	
	94.6 %	50-200	05/13/22	05/13/22	
mg/kg	mg/kg	Anal	yst: RAS		Batch: 2220048
ND	20.0	1	05/13/22	05/13/22	
	mg/kg ND ND ND ND ND ND ND ND ND Mg/kg ND mg/kg	Result         Limit           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           MD         0.0250           MD         20.0250           MD         20.0           89.8 %         mg/kg           MD         25.0           ND         50.0           94.6 %         mg/kg           mg/kg         mg/kg	mg/kg         mg/kg         Anal           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           mg/kg         mg/kg         Anal           ND         20.0         1           89.8 %         70-130           mg/kg         mg/kg         Anal           ND         25.0         1           ND         50.0         1           94.6 %         50-200           mg/kg         mg/kg         Anal	Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: RKS           ND         0.0250         1         05/13/22           ND         0.0250         1         05/13/22           ND         0.0250         1         05/13/22           ND         0.0250         1         05/13/22           ND         0.0500         1         05/13/22           ND         0.0250         1         05/13/22           mg/kg         mg/kg         Analyst: RKS           ND         20.0         1         05/13/22           mg/kg         mg/kg         Analyst: JL           ND         25.0         1         05/13/22           ND         25.0         1         05/13/22           ND         50.0         1         05/13/22           ND         50.0         1         05/13/22           mg/kg         Mg/kg         Analyst: JL	Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: RKS           ND         0.0250         1         05/13/22         05/13/22           ND         0.0500         1         05/13/22         05/13/22           ND         0.0250         1         05/13/22         05/13/22           ND         0.0250         1         05/13/22         05/13/22           mg/kg         mg/kg         Analyst: RKS           ND         20.0         1         05/13/22         05/13/22           mg/kg         mg/kg         Analyst: JL         ND         25.0         1         05/13/22         05/13/22           ND         25.0         1         05/13/22         05/13/22         05/13/22           ND         50.0         1         05/13/22         05/13/22           ND         50.0         1         05/13/22         05/13/22

#### **Sample Data**

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	5/16/2022 2:24:29PM

#### BG01 - 1' E205057-02

		E203037-02				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
. many to				•	- many zou	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	lyst: RKS		Batch: 2220047
Benzene	ND	0.0250	1	05/13/22	05/13/22	
Ethylbenzene	ND	0.0250	1	05/13/22	05/13/22	
Toluene	ND	0.0250	1	05/13/22	05/13/22	
o-Xylene	ND	0.0250	1	05/13/22	05/13/22	
p,m-Xylene	ND	0.0500	1	05/13/22	05/13/22	
Total Xylenes	ND	0.0250	1	05/13/22	05/13/22	
Surrogate: 4-Bromochlorobenzene-PID		96.6 %	70-130	05/13/22	05/13/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	lyst: RKS		Batch: 2220047
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/13/22	05/13/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.4 %	70-130	05/13/22	05/13/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	lyst: JL		Batch: 2220050
Diesel Range Organics (C10-C28)	ND	25.0	1	05/13/22	05/13/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/13/22	05/13/22	
Surrogate: n-Nonane		92.4 %	50-200	05/13/22	05/13/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	lyst: RAS		Batch: 2220048
Chloride	ND	20.0	1	05/13/22	05/13/22	



#### **Sample Data**

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	5/16/2022 2:24:29PM

BG01 - 2' E205057-03

		E205057-03				
	D. I	Reporting	D.1 ·.	D 1		N
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2220047
Benzene	ND	0.0250	1	05/13/22	05/13/22	
Ethylbenzene	ND	0.0250	1	05/13/22	05/13/22	
Toluene	ND	0.0250	1	05/13/22	05/13/22	
o-Xylene	ND	0.0250	1	05/13/22	05/13/22	
p,m-Xylene	ND	0.0500	1	05/13/22	05/13/22	
Total Xylenes	ND	0.0250	1	05/13/22	05/13/22	
Surrogate: 4-Bromochlorobenzene-PID		95.0 %	70-130	05/13/22	05/13/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2220047
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/13/22	05/13/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.7 %	70-130	05/13/22	05/13/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: JL		Batch: 2220050
Diesel Range Organics (C10-C28)	ND	25.0	1	05/13/22	05/13/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/13/22	05/13/22	
Surrogate: n-Nonane		90.9 %	50-200	05/13/22	05/13/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2220048
Chloride	ND	20.0	1	05/13/22	05/13/22	



Surrogate: 4-Bromochlorobenzene-PID

## **QC Summary Data**

Kaiser Francis Oil Company 1224 Standpipe Rd	Project Name: Project Number:	Red Hills Facility Pad 1 05.07.22 Spill 21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	5/16/2022 2:24:29PM

Carlsbad NM, 88220		Project Manager	: A	shley Gioveng	go				5/16/2022 2:24:29PM
Volatile Organics by EPA 8021B Analyst: RKS								Analyst: RKS	
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2220047-BLK1)							Prepared: 0	5/13/22 A	nalyzed: 05/13/22
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.38		8.00		92.3	70-130			
LCS (2220047-BS1)							Prepared: 0	5/13/22 A	nalyzed: 05/13/22
Benzene	4.74	0.0250	5.00		94.8	70-130			
Ethylbenzene	4.65	0.0250	5.00		92.9	70-130			
Toluene	4.83	0.0250	5.00		96.6	70-130			
o-Xylene	4.85	0.0250	5.00		97.1	70-130			
p,m-Xylene	9.57	0.0500	10.0		95.7	70-130			
Total Xylenes	14.4	0.0250	15.0		96.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.45		8.00		93.1	70-130			
LCS Dup (2220047-BSD1)							Prepared: 0	5/13/22 A	nalyzed: 05/13/22
Benzene	4.92	0.0250	5.00		98.4	70-130	3.68	20	
Ethylbenzene	4.88	0.0250	5.00		97.6	70-130	4.91	20	
Toluene	5.04	0.0250	5.00		101	70-130	4.23	20	
o-Xylene	5.08	0.0250	5.00		102	70-130	4.64	20	
p,m-Xylene	10.1	0.0500	10.0		101	70-130	4.95	20	
Total Xylenes	15.1	0.0250	15.0		101	70-130	4.84	20	



#### **QC Summary Data**

Kaiser Francis Oil Company 1224 Standpipe Rd	Project Name: Project Number:	Red Hills Facility Pad 1 05.07.22 Spill 21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	5/16/2022 2:24:29PM

Carlsbad NM, 88220		Project Manager	: As	hley Gioveng	o,				5/16/2022 2:24:29PN
		Analyst: RKS							
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2220047-BLK1)							Prepared: 0	5/13/22	Analyzed: 05/13/22
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.44		8.00		93.0	70-130			
LCS (2220047-BS2)							Prepared: 0	5/13/22	Analyzed: 05/13/22
Gasoline Range Organics (C6-C10)	53.8	20.0	50.0		108	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.44		8.00		93.0	70-130			
LCS Dup (2220047-BSD2)							Prepared: 0	5/13/22	Analyzed: 05/13/22
Gasoline Range Organics (C6-C10)	55.4	20.0	50.0		111	70-130	2.82	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.39		8.00		92.4	70-130			

#### **QC Summary Data**

Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 1 05.07.22 SpillReported:1224 Standpipe RdProject Number:21022-0001Carlsbad NM, 88220Project Manager:Ashley Giovengo5/16/20222:24:29PM

Carlsbad NM, 88220		Project Manager	r: As	hley Gioveng	go			3/	16/2022 2:24:29PN
	Nonha	logenated Or	ganics by l	EPA 8015I	D - DRO	/ORO			Analyst: AK
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2220050-BLK1)							Prepared: 0	5/13/22 Ana	lyzed: 05/13/22
iesel Range Organics (C10-C28)	ND	25.0							
ril Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	44.1		50.0		88.1	50-200			
.CS (2220050-BS1)							Prepared: 0	5/13/22 Ana	lyzed: 05/13/22
riesel Range Organics (C10-C28)	489	25.0	500		97.9	38-132			
urrogate: n-Nonane	51.1		50.0		102	50-200			
Aatrix Spike (2220050-MS1)				Source:	Source: E205058-08			5/13/22 Ana	lyzed: 05/13/22
riesel Range Organics (C10-C28)	435	25.0	500	ND	87.1	38-132			
urrogate: n-Nonane	50.8		50.0		102	50-200			
Matrix Spike Dup (2220050-MSD1)				Source:	E205058-	08	Prepared: 0	5/13/22 Ana	lyzed: 05/13/22
riesel Range Organics (C10-C28)	492	25.0	500	ND	98.3	38-132	12.2	20	
urrogate: n-Nonane	52.2		50.0		104	50-200			

#### **QC Summary Data**

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	2	Red Hills Facili 21022-0001 Ashley Gioveng		5.07.22 S <sub>j</sub>	oill		<b>Reported:</b> 5/16/2022 2:24:29PM
		Anions	by EPA	300.0/9056	4				Analyst: RAS
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2220048-BLK1)							Prepared: 0	5/13/22 A	analyzed: 05/13/22
Chloride	ND	20.0							
LCS (2220048-BS1)							Prepared: 0	5/13/22 A	analyzed: 05/13/22
Chloride	249	20.0	250		99.5	90-110			
Matrix Spike (2220048-MS1)				Source:	E205052-	01	Prepared: 0	5/13/22 A	analyzed: 05/13/22
Chloride	370	20.0	250	136	93.8	80-120			
Matrix Spike Dup (2220048-MSD1)				Source:	E205052-	01	Prepared: 0	5/13/22 A	analyzed: 05/13/22
Chloride	403	20.0	250	136	107	80-120	8.41	20	

#### QC Summary Report Comment:

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



#### **Definitions and Notes**

	Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	
ı	1224 Standpipe Rd	Project Number:	21022-0001	Reported:
ı	Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	05/16/22 14:24

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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#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

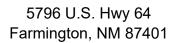
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Kaiser Francis Oil Company	Date Received:	05/13/22	08:15	Work Order ID:	E205057
Phone:	(505) 382-1211	Date Logged In:	05/13/22	08:19	Logged In By:	Caitlin Christian
Email:	ashley.giovengo@wescominc.com	Due Date:	05/13/22	17:00 (0 day TAT)		
GI. I	1.G 1. (GOG)					
	f Custody (COC)		••			
	the sample ID match the COC?	tab the COC	Yes			
	the number of samples per sampling site location mat	ich the COC	Yes			
	samples dropped off by client or carrier?	-4- 410	Yes Yes	Carrier: Courrier		
	ne COC complete, i.e., signatures, dates/times, reques	sted analyses?				
5. were	all samples received within holding time?  Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssion.		Yes		Comment	ts/Resolution
	Turn Around Time (TAT)					
6. Did th	e COC indicate standard TAT, or Expedited TAT?		Yes			
<b>Sample</b>						
	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes			
9. Was tl	ne sample(s) received intact, i.e., not broken?		Yes			
10. Were	e custody/security seals present?		No			
11. If ye	s, were custody/security seals intact?		NA			
	he 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	Container					
	aqueous VOC samples present?		No			
	VOC samples collected in VOA Vials?		NA			
	e head space less than 6-8 mm (pea sized or less)?		NA			
17. Was	a trip blank (TB) included for VOC analyses?		NA			
	non-VOC samples collected in the correct containers'	?	Yes			
	appropriate volume/weight or number of sample contain		Yes			
Field La	· · ·					
	e field sample labels filled out with the minimum info	ormation:				
	Sample ID?		Yes			
	Date/Time Collected?		Yes			
	Collectors name?		Yes			
	<u>Preservation</u>					
	s the COC or field labels indicate the samples were pr	reserved?	No			
	sample(s) correctly preserved?	. 1.0	NA			
	o filteration required and/or requested for dissolved m	netals?	No			
	ase Sample Matrix					
	s the sample have more than one phase, i.e., multipha		No			
27. If ye	s, does the COC specify which phase(s) is to be analy	yzed?	NA			
Subcont	ract Laboratory					
	samples required to get sent to a subcontract laborato a subcontract laboratory specified by the client and it	•	No NA	Subcontract Lab: na		
Client l	<u>Instruction</u>					
						_

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

Report to:
Ashley Giovengo





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





# envirotech

Practical Solutions for a Better Tomorrow

### **Analytical Report**

Kaiser Francis Oil Company

Project Name: Red Hills Facility Pad 1 05.07.22

Spill

Work Order: E205083

Job Number: 21022-0001

Received: 5/18/2022

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 5/24/22

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

Date Reported: 5/24/22

Ashley Giovengo 1224 Standpipe Rd Carlsbad, NM 88220

Project Name: Red Hills Facility Pad 1 05.07.22 Spill

Workorder: E205083

Date Received: 5/18/2022 11:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/18/2022 11:00:00AM, under the Project Name: Red Hills Facility Pad 1 05.07.22 Spill.

The analytical test results summarized in this report with the Project Name: Red Hills Facility Pad 1 05.07.22 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

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Rayny Hagan

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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:	Red Hills Facility Pad 1 05.07.22 Spill	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	Reporteu:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	05/24/22 14:44

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CONF01 - 1'	E205083-01A	Soil	05/13/22	05/18/22	Glass Jar, 4 oz.
CONF02 - 1.5'	E205083-02A	Soil	05/13/22	05/18/22	Glass Jar, 4 oz.
CONF03 - 1.5'	E205083-03A	Soil	05/13/22	05/18/22	Glass Jar, 4 oz.
CONF04 - 1.5'	E205083-04A	Soil	05/13/22	05/18/22	Glass Jar, 4 oz.
CONF05 - 2.5'	E205083-05A	Soil	05/13/22	05/18/22	Glass Jar, 4 oz.
CONF06 - 2.5'	E205083-06A	Soil	05/13/22	05/18/22	Glass Jar, 4 oz.
CONF07 - 1.5'	E205083-07A	Soil	05/13/22	05/18/22	Glass Jar, 4 oz.
CONF08 - 1.5'	E205083-08A	Soil	05/13/22	05/18/22	Glass Jar, 4 oz.
CONF09 - 1.5'	E205083-09A	Soil	05/13/22	05/18/22	Glass Jar, 4 oz.
CONF10 - 1.5'	E205083-10A	Soil	05/13/22	05/18/22	Glass Jar, 4 oz.
CONF11 - 4'	E205083-11A	Soil	05/13/22	05/18/22	Glass Jar, 4 oz.
CONF12 - 2'	E205083-12A	Soil	05/16/22	05/18/22	Glass Jar, 4 oz.
CONF13 - 2'	E205083-13A	Soil	05/16/22	05/18/22	Glass Jar, 4 oz.
CONF14 - 2'	E205083-14A	Soil	05/16/22	05/18/22	Glass Jar, 4 oz.
CONF15 - 2'	E205083-15A	Soil	05/16/22	05/18/22	Glass Jar, 4 oz.
CONF16 - 1.5'	E205083-16A	Soil	05/16/22	05/18/22	Glass Jar, 4 oz.
CONF17 - 1.5'	E205083-17A	Soil	05/16/22	05/18/22	Glass Jar, 4 oz.
CONF18 - 1.5'	E205083-18A	Soil	05/16/22	05/18/22	Glass Jar, 4 oz.
CONF19 - 1.5'	E205083-19A	Soil	05/16/22	05/18/22	Glass Jar, 4 oz.
CONF20 - 1.5'	E205083-20A	Soil	05/16/22	05/18/22	Glass Jar, 4 oz.
CONF21 - 1.5'	E205083-21A	Soil	05/16/22	05/18/22	Glass Jar, 4 oz.
CONF22 - 1.5'	E205083-22A	Soil	05/16/22	05/18/22	Glass Jar, 4 oz.
CONF23 - 1.5'	E205083-23A	Soil	05/16/22	05/18/22	Glass Jar, 4 oz.
CONF24 - 1.5'	E205083-24A	Soil	05/16/22	05/18/22	Glass Jar, 4 oz.
CONF25 - 1.5'	E205083-25A	Soil	05/16/22	05/18/22	Glass Jar, 4 oz.
SS01 - 11'	E205083-26A	Soil	05/16/22	05/18/22	Glass Jar, 4 oz.
SS01 - 11.5'	E205083-27A	Soil	05/16/22	05/18/22	Glass Jar, 4 oz.

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	5/24/2022 2:44:48PM

### CONF01 - 1' E205083-01

	E203063-01				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Anal	yst: IY		Batch: 2221038
ND	0.0250	1	05/19/22	05/23/22	
ND	0.0250	1	05/19/22	05/23/22	
ND	0.0250	1	05/19/22	05/23/22	
ND	0.0250	1	05/19/22	05/23/22	
ND	0.0500	1	05/19/22	05/23/22	
ND	0.0250	1	05/19/22	05/23/22	
	96.0 %	70-130	05/19/22	05/23/22	
mg/kg	mg/kg	Anal	yst: IY		Batch: 2221038
ND	20.0	1	05/19/22	05/23/22	
	93.4 %	70-130	05/19/22	05/23/22	
mg/kg	mg/kg	Anal	yst: JL		Batch: 2221046
ND	25.0	1	05/19/22	05/19/22	
ND	50.0	1	05/19/22	05/19/22	
	117 %	50-200	05/19/22	05/19/22	
mg/kg	mg/kg	Anal	yst: KL		Batch: 2221041
85.1	20.0	1	05/19/22	05/20/22	
	mg/kg ND ND ND ND ND ND ND ND ND Mg/kg ND mg/kg	Result         Reporting           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           mg/kg         mg/kg           Mg/kg         mg/kg           ND         20.0           93.4 %         mg/kg           ND         25.0           ND         50.0           117 %         mg/kg           mg/kg         mg/kg	Reporting           Result         Limit         Dilution           mg/kg         mg/kg         Anal           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           mg/kg         mg/kg         Anal           ND         20.0         1           93.4 %         70-130           mg/kg         mg/kg         Anal           ND         25.0         1           ND         50.0         1           117 %         50-200           mg/kg         mg/kg         Anal	Reporting           Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: IY           ND         0.0250         1         05/19/22           ND         0.0250         1         05/19/22           ND         0.0250         1         05/19/22           ND         0.0250         1         05/19/22           ND         0.0500         1         05/19/22           ND         0.0250         1         05/19/22           mg/kg         mg/kg         Analyst: IV           ND         20.0         1         05/19/22           mg/kg         mg/kg         Analyst: JL           ND         25.0         1         05/19/22           ND         50.0         1         05/19/22           ND         50.0         1         05/19/22           MD         50.0         1         05/19/22           mg/kg         mg/kg         Analyst: JL	Reporting           Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: IY           ND         0.0250         1         05/19/22         05/23/22           ND         0.0250         1         05/19/22         05/23/22           ND         0.0250         1         05/19/22         05/23/22           ND         0.0500         1         05/19/22         05/23/22           ND         0.0250         1         05/19/22         05/23/22           ND         0.0250         1         05/19/22         05/23/22           mg/kg         mg/kg         Analyst: IY           ND         20.0         1         05/19/22         05/23/22           mg/kg         mg/kg         Analyst: IV           ND         20.0         1         05/19/22         05/23/22           mg/kg         mg/kg         Analyst: JL           ND         25.0         1         05/19/22         05/19/22           ND         50.0         1         05/19/22         05/19/22           ND         50.0         1         05/19/22         05/19/22



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	5/24/2022 2:44:48PM

### CONF02 - 1.5'

		D				
Analyte	Result	Reporting Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		alyst: IY		Batch: 2221038
Benzene	ND	0.0250	1	05/19/22	05/23/22	
Ethylbenzene	ND	0.0250	1	05/19/22	05/23/22	
Toluene	ND	0.0250	1	05/19/22	05/23/22	
o-Xylene	ND	0.0250	1	05/19/22	05/23/22	
p,m-Xylene	ND	0.0500	1	05/19/22	05/23/22	
Total Xylenes	ND	0.0250	1	05/19/22	05/23/22	
Surrogate: 4-Bromochlorobenzene-PID		105 %	70-130	05/19/22	05/23/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: IY		Batch: 2221038
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/22	05/23/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.9 %	70-130	05/19/22	05/23/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: JL		Batch: 2221046
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/22	05/19/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/22	05/19/22	
Surrogate: n-Nonane		116 %	50-200	05/19/22	05/19/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: KL		Batch: 2221041
Chloride	54.1	20.0	1	05/19/22	05/20/22	



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	5/24/2022 2:44:48PM

### CONF03 - 1.5'

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: IY		Batch: 2221038
Benzene	ND	0.0250	1	05/19/22	05/23/22	
Ethylbenzene	ND	0.0250	1	05/19/22	05/23/22	
Toluene	ND	0.0250	1	05/19/22	05/23/22	
o-Xylene	ND	0.0250	1	05/19/22	05/23/22	
p,m-Xylene	ND	0.0500	1	05/19/22	05/23/22	
Total Xylenes	ND	0.0250	1	05/19/22	05/23/22	
Surrogate: 4-Bromochlorobenzene-PID		98.4 %	70-130	05/19/22	05/23/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: IY		Batch: 2221038
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/22	05/23/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.2 %	70-130	05/19/22	05/23/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: JL		Batch: 2221046
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/22	05/19/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/22	05/19/22	
Surrogate: n-Nonane		116 %	50-200	05/19/22	05/19/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: KL		Batch: 2221041



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	5/24/2022 2:44:48PM

#### **CONF04 - 1.5'**

		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: IY		Batch: 2221038
Benzene	ND	0.0250	1	05/19/22	05/23/22	
Ethylbenzene	ND	0.0250	1	05/19/22	05/23/22	
Toluene	ND	0.0250	1	05/19/22	05/23/22	
o-Xylene	ND	0.0250	1	05/19/22	05/23/22	
p,m-Xylene	ND	0.0500	1	05/19/22	05/23/22	
Total Xylenes	ND	0.0250	1	05/19/22	05/23/22	
Surrogate: 4-Bromochlorobenzene-PID		100 %	70-130	05/19/22	05/23/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: IY		Batch: 2221038
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/22	05/23/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.6 %	70-130	05/19/22	05/23/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: JL		Batch: 2221046
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/22	05/19/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/22	05/19/22	
Surrogate: n-Nonane		113 %	50-200	05/19/22	05/19/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: KL		Batch: 2221041
Chloride	142	20.0	1	05/19/22	05/20/22	



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Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	5/24/2022 2:44:48PM

#### **CONF05 - 2.5'**

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: IY		Batch: 2221038
Benzene	ND	0.0250	1	05/19/22	05/23/22	
Ethylbenzene	ND	0.0250	1	05/19/22	05/23/22	
Toluene	ND	0.0250	1	05/19/22	05/23/22	
o-Xylene	ND	0.0250	1	05/19/22	05/23/22	
p,m-Xylene	ND	0.0500	1	05/19/22	05/23/22	
Total Xylenes	ND	0.0250	1	05/19/22	05/23/22	
Surrogate: 4-Bromochlorobenzene-PID		103 %	70-130	05/19/22	05/23/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: IY		Batch: 2221038
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/22	05/23/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.3 %	70-130	05/19/22	05/23/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: JL		Batch: 2221046
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/22	05/19/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/22	05/19/22	
Surrogate: n-Nonane		94.7 %	50-200	05/19/22	05/19/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: KL		Batch: 2221041



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	5/24/2022 2:44:48PM

#### **CONF06 - 2.5'**

		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: IY		Batch: 2221038
Benzene	ND	0.0250	1	05/19/22	05/23/22	
Ethylbenzene	ND	0.0250	1	05/19/22	05/23/22	
Toluene	ND	0.0250	1	05/19/22	05/23/22	
o-Xylene	ND	0.0250	1	05/19/22	05/23/22	
p,m-Xylene	ND	0.0500	1	05/19/22	05/23/22	
Total Xylenes	ND	0.0250	1	05/19/22	05/23/22	
Surrogate: 4-Bromochlorobenzene-PID		105 %	70-130	05/19/22	05/23/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: IY		Batch: 2221038
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/22	05/23/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.5 %	70-130	05/19/22	05/23/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: JL		Batch: 2221046
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/22	05/19/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/22	05/19/22	
Surrogate: n-Nonane		116 %	50-200	05/19/22	05/19/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: KL		Batch: 2221041
Chloride	74.9	20.0	1	05/19/22	05/20/22	



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	5/24/2022 2:44:48PM

#### CONF07 - 1.5'

		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: IY		Batch: 2221038
Benzene	ND	0.0250	1	05/19/22	05/23/22	
Ethylbenzene	ND	0.0250	1	05/19/22	05/23/22	
Toluene	ND	0.0250	1	05/19/22	05/23/22	
o-Xylene	ND	0.0250	1	05/19/22	05/23/22	
p,m-Xylene	ND	0.0500	1	05/19/22	05/23/22	
Total Xylenes	ND	0.0250	1	05/19/22	05/23/22	
Surrogate: 4-Bromochlorobenzene-PID		100 %	70-130	05/19/22	05/23/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: IY		Batch: 2221038
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/22	05/23/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.1 %	70-130	05/19/22	05/23/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: JL		Batch: 2221046
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/22	05/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/22	05/20/22	
Surrogate: n-Nonane		116 %	50-200	05/19/22	05/20/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: KL		Batch: 2221041
Chloride	ND	20.0	1	05/19/22	05/20/22	•



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	5/24/2022 2:44:48PM

#### CONF08 - 1.5'

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: IY		Batch: 2221038
Benzene	ND	0.0250	1	05/19/22	05/23/22	
Ethylbenzene	ND	0.0250	1	05/19/22	05/23/22	
Toluene	ND	0.0250	1	05/19/22	05/23/22	
o-Xylene	ND	0.0250	1	05/19/22	05/23/22	
p,m-Xylene	ND	0.0500	1	05/19/22	05/23/22	
Total Xylenes	ND	0.0250	1	05/19/22	05/23/22	
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	05/19/22	05/23/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: IY		Batch: 2221038
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/22	05/23/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.1 %	70-130	05/19/22	05/23/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: JL		Batch: 2221046
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/22	05/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/22	05/20/22	
Surrogate: n-Nonane		117 %	50-200	05/19/22	05/20/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: KL		Batch: 2221041
Chloride	59.7	20.0	1	05/19/22	05/20/22	



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	
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Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	5/24/2022 2:44:48PM

#### CONF09 - 1.5'

		D				
Analyte	Result	Reporting Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		alyst: IY	7 11101,7 200	Batch: 2221038
Benzene	ND	0.0250	1	05/19/22	05/23/22	
Ethylbenzene	ND	0.0250	1	05/19/22	05/23/22	
Toluene	ND	0.0250	1	05/19/22	05/23/22	
o-Xylene	ND	0.0250	1	05/19/22	05/23/22	
p,m-Xylene	ND	0.0500	1	05/19/22	05/23/22	
Total Xylenes	ND	0.0250	1	05/19/22	05/23/22	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	05/19/22	05/23/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: IY		Batch: 2221038
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/22	05/23/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.8 %	70-130	05/19/22	05/23/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: JL		Batch: 2221046
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/22	05/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/22	05/20/22	
Surrogate: n-Nonane		108 %	50-200	05/19/22	05/20/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: KL		Batch: 2221041
Chloride	38.4	20.0	1	05/19/22	05/20/22	



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	
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Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	5/24/2022 2:44:48PM

### CONF10 - 1.5'

		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: IY		Batch: 2221038
Benzene	ND	0.0250	1	05/19/22	05/23/22	
Ethylbenzene	ND	0.0250	1	05/19/22	05/23/22	
Toluene	ND	0.0250	1	05/19/22	05/23/22	
o-Xylene	ND	0.0250	1	05/19/22	05/23/22	
p,m-Xylene	ND	0.0500	1	05/19/22	05/23/22	
Total Xylenes	ND	0.0250	1	05/19/22	05/23/22	
Surrogate: 4-Bromochlorobenzene-PID		97.6 %	70-130	05/19/22	05/23/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: IY		Batch: 2221038
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/22	05/23/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.4 %	70-130	05/19/22	05/23/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: JL		Batch: 2221046
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/22	05/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/22	05/20/22	
Surrogate: n-Nonane		118 %	50-200	05/19/22	05/20/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: KL		Batch: 2221041
	309	20.0	1	05/19/22	05/20/22	



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	5/24/2022 2:44:48PM

### CONF11 - 4'

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2221038
Benzene	ND	0.0250	1	05/19/22	05/23/22	
Ethylbenzene	ND	0.0250	1	05/19/22	05/23/22	
Toluene	ND	0.0250	1	05/19/22	05/23/22	
o-Xylene	ND	0.0250	1	05/19/22	05/23/22	
p,m-Xylene	ND	0.0500	1	05/19/22	05/23/22	
Total Xylenes	ND	0.0250	1	05/19/22	05/23/22	
Surrogate: 4-Bromochlorobenzene-PID		93.4 %	70-130	05/19/22	05/23/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2221038
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/22	05/23/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.5 %	70-130	05/19/22	05/23/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: JL		Batch: 2221046
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/22	05/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/22	05/20/22	
Surrogate: n-Nonane		117 %	50-200	05/19/22	05/20/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: KL		Batch: 2221041
Chloride	ND	20.0	1	05/19/22	05/20/22	



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	
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Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	5/24/2022 2:44:48PM

#### CONF12 - 2'

E205083-12						
Reporting						
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2221038
Benzene	ND	0.0250	1	05/19/22	05/23/22	
Ethylbenzene	ND	0.0250	1	05/19/22	05/23/22	
Toluene	ND	0.0250	1	05/19/22	05/23/22	
o-Xylene	ND	0.0250	1	05/19/22	05/23/22	
o,m-Xylene	ND	0.0500	1	05/19/22	05/23/22	
Total Xylenes	ND	0.0250	1	05/19/22	05/23/22	
Surrogate: 4-Bromochlorobenzene-PID		98.7 %	70-130	05/19/22	05/23/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2221038
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/22	05/23/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.1 %	70-130	05/19/22	05/23/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: JL		Batch: 2221046
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/22	05/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/22	05/20/22	
Surrogate: n-Nonane		117 %	50-200	05/19/22	05/20/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: KL		Batch: 2221041
Chloride	419	20.0	1	05/19/22	05/20/22	



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	5/24/2022 2:44:48PM

### CONF13 - 2'

E205083-13						
Reporting						
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: IY		Batch: 2221038
Benzene	ND	0.0250	1	05/19/22	05/23/22	
Ethylbenzene	ND	0.0250	1	05/19/22	05/23/22	
Toluene	ND	0.0250	1	05/19/22	05/23/22	
o-Xylene	ND	0.0250	1	05/19/22	05/23/22	
o,m-Xylene	ND	0.0500	1	05/19/22	05/23/22	
Total Xylenes	ND	0.0250	1	05/19/22	05/23/22	
Surrogate: 4-Bromochlorobenzene-PID		95.2 %	70-130	05/19/22	05/23/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: IY		Batch: 2221038
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/22	05/23/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.4 %	70-130	05/19/22	05/23/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: JL		Batch: 2221046
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/22	05/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/22	05/20/22	
Surrogate: n-Nonane		119 %	50-200	05/19/22	05/20/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: KL		Batch: 2221041
Chloride	ND	20.0	1	05/19/22	05/20/22	



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	5/24/2022 2:44:48PM

#### **CONF14 - 2'**

		Damati				
Analyte	Result	Reporting Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: IY		Batch: 2221038
Benzene	ND	0.0250	1	05/19/22	05/23/22	
Ethylbenzene	ND	0.0250	1	05/19/22	05/23/22	
Toluene	ND	0.0250	1	05/19/22	05/23/22	
o-Xylene	ND	0.0250	1	05/19/22	05/23/22	
p,m-Xylene	ND	0.0500	1	05/19/22	05/23/22	
Total Xylenes	ND	0.0250	1	05/19/22	05/23/22	
Surrogate: 4-Bromochlorobenzene-PID		93.9 %	70-130	05/19/22	05/23/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: IY		Batch: 2221038
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/22	05/23/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.6 %	70-130	05/19/22	05/23/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: JL		Batch: 2221046
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/22	05/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/22	05/20/22	
Surrogate: n-Nonane		126 %	50-200	05/19/22	05/20/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: KL		Batch: 2221041
Chloride	ND	20.0	1	05/19/22	05/20/22	



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	5/24/2022 2:44:48PM

#### **CONF15 - 2'**

E205083-15						
		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: IY		Batch: 2221038
Benzene	ND	0.0250	1	05/19/22	05/23/22	
Ethylbenzene	ND	0.0250	1	05/19/22	05/23/22	
Toluene	ND	0.0250	1	05/19/22	05/23/22	
o-Xylene	ND	0.0250	1	05/19/22	05/23/22	
p,m-Xylene	ND	0.0500	1	05/19/22	05/23/22	
Total Xylenes	ND	0.0250	1	05/19/22	05/23/22	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	05/19/22	05/23/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: IY		Batch: 2221038
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/22	05/23/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.8 %	70-130	05/19/22	05/23/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: JL		Batch: 2221046
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/22	05/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/22	05/20/22	
Surrogate: n-Nonane		119 %	50-200	05/19/22	05/20/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: KL		Batch: 2221041
Chloride	26.3	20.0	1	05/19/22	05/20/22	



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	5/24/2022 2:44:48PM

### CONF16 - 1.5'

		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: IY		Batch: 2221038
Benzene	ND	0.0250	1	05/19/22	05/23/22	
Ethylbenzene	ND	0.0250	1	05/19/22	05/23/22	
Toluene	ND	0.0250	1	05/19/22	05/23/22	
o-Xylene	ND	0.0250	1	05/19/22	05/23/22	
o,m-Xylene	ND	0.0500	1	05/19/22	05/23/22	
Total Xylenes	ND	0.0250	1	05/19/22	05/23/22	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	05/19/22	05/23/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: IY		Batch: 2221038
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/22	05/23/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.0 %	70-130	05/19/22	05/23/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: JL		Batch: 2221046
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/22	05/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/22	05/20/22	
Surrogate: n-Nonane		95.5 %	50-200	05/19/22	05/20/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: KL		Batch: 2221041
·	ND	20.0	•	05/19/22	05/20/22	<u>"</u>



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	5/24/2022 2:44:48PM

### CONF17 - 1.5'

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: IY		Batch: 2221038
Benzene	ND	0.0250	1	05/19/22	05/23/22	
Ethylbenzene	ND	0.0250	1	05/19/22	05/23/22	
Toluene	ND	0.0250	1	05/19/22	05/23/22	
o-Xylene	ND	0.0250	1	05/19/22	05/23/22	
o,m-Xylene	ND	0.0500	1	05/19/22	05/23/22	
Total Xylenes	ND	0.0250	1	05/19/22	05/23/22	
Surrogate: 4-Bromochlorobenzene-PID		99.2 %	70-130	05/19/22	05/23/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: IY		Batch: 2221038
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/22	05/23/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.3 %	70-130	05/19/22	05/23/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: JL		Batch: 2221046
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/22	05/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/22	05/20/22	
Surrogate: n-Nonane		119 %	50-200	05/19/22	05/20/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: KL		Batch: 2221041



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	5/24/2022 2:44:48PM

### CONF18 - 1.5'

		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: IY		Batch: 2221038
Benzene	ND	0.0250	1	05/19/22	05/23/22	
Ethylbenzene	ND	0.0250	1	05/19/22	05/23/22	
Toluene	ND	0.0250	1	05/19/22	05/23/22	
o-Xylene	ND	0.0250	1	05/19/22	05/23/22	
o,m-Xylene	ND	0.0500	1	05/19/22	05/23/22	
Total Xylenes	ND	0.0250	1	05/19/22	05/23/22	
Surrogate: 4-Bromochlorobenzene-PID		94.1 %	70-130	05/19/22	05/23/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: IY		Batch: 2221038
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/22	05/23/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.0 %	70-130	05/19/22	05/23/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: JL		Batch: 2221046
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/22	05/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/22	05/20/22	
Surrogate: n-Nonane		117 %	50-200	05/19/22	05/20/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: KL		Batch: 2221041
· ·	ND	20.0	•	05/19/22	05/20/22	



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	5/24/2022 2:44:48PM

#### CONF19 - 1.5'

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	lyst: IY		Batch: 2221038
Benzene	ND	0.0250	1	05/19/22	05/23/22	
Ethylbenzene	ND	0.0250	1	05/19/22	05/23/22	
Toluene	ND	0.0250	1	05/19/22	05/23/22	
o-Xylene	ND	0.0250	1	05/19/22	05/23/22	
p,m-Xylene	ND	0.0500	1	05/19/22	05/23/22	
Total Xylenes	ND	0.0250	1	05/19/22	05/23/22	
Surrogate: 4-Bromochlorobenzene-PID		97.8 %	70-130	05/19/22	05/23/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	lyst: IY		Batch: 2221038
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/22	05/23/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.8 %	70-130	05/19/22	05/23/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	lyst: JL		Batch: 2221046
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/22	05/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/22	05/20/22	
Surrogate: n-Nonane		118 %	50-200	05/19/22	05/20/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	lyst: KL		Batch: 2221041
<del>-</del>	ND	20.0		05/19/22	05/20/22	<u> </u>



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	5/24/2022 2:44:48PM

### CONF20 - 1.5'

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	ılyst: IY		Batch: 2221038
Benzene	ND	0.0250	1	05/19/22	05/23/22	
Ethylbenzene	ND	0.0250	1	05/19/22	05/23/22	
Toluene	ND	0.0250	1	05/19/22	05/23/22	
o-Xylene	ND	0.0250	1	05/19/22	05/23/22	
o,m-Xylene	ND	0.0500	1	05/19/22	05/23/22	
Total Xylenes	ND	0.0250	1	05/19/22	05/23/22	
Surrogate: 4-Bromochlorobenzene-PID		95.8 %	70-130	05/19/22	05/23/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	ılyst: IY		Batch: 2221038
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/22	05/23/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.2 %	70-130	05/19/22	05/23/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: JL		Batch: 2221046
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/22	05/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/22	05/20/22	
Surrogate: n-Nonane		112 %	50-200	05/19/22	05/20/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	ılyst: KL		Batch: 2221041
· · · · · · · · · · · · · · · · · · ·	ND	20.0		05/19/22	05/20/22	



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	5/24/2022 2:44:48PM

### CONF21 - 1.5'

		D am a :-+!:				
Analyte	Result	Reporting Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		alyst: IY		Batch: 2221036
Benzene	ND	0.0250	1	05/19/22	05/23/22	
Ethylbenzene	ND	0.0250	1	05/19/22	05/23/22	
Toluene	ND	0.0250	1	05/19/22	05/23/22	
o-Xylene	ND	0.0250	1	05/19/22	05/23/22	
p,m-Xylene	ND	0.0500	1	05/19/22	05/23/22	
Total Xylenes	ND	0.0250	1	05/19/22	05/23/22	
Surrogate: 4-Bromochlorobenzene-PID		92.9 %	70-130	05/19/22	05/23/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: IY		Batch: 2221036
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/22	05/23/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.9 %	70-130	05/19/22	05/23/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: JL		Batch: 2221044
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/22	05/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/22	05/20/22	
Surrogate: n-Nonane		112 %	50-200	05/19/22	05/20/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: KL		Batch: 2221040
Chloride	ND	20.0	1	05/19/22	05/19/22	



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	5/24/2022 2:44:48PM

### CONF22 - 1.5'

	Reporting				
Result	Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analy	yst: IY		Batch: 2221036
ND	0.0250	1	05/19/22	05/23/22	
ND	0.0250	1	05/19/22	05/23/22	
ND	0.0250	1	05/19/22	05/23/22	
ND	0.0250	1	05/19/22	05/23/22	
ND	0.0500	1	05/19/22	05/23/22	
ND	0.0250	1	05/19/22	05/23/22	
	93.7 %	70-130	05/19/22	05/23/22	
mg/kg	mg/kg	Analy	yst: IY		Batch: 2221036
ND	20.0	1	05/19/22	05/23/22	
	87.5 %	70-130	05/19/22	05/23/22	
mg/kg	mg/kg	Analy	yst: JL		Batch: 2221044
ND	25.0	1	05/19/22	05/20/22	
ND	50.0	1	05/19/22	05/20/22	
	113 %	50-200	05/19/22	05/20/22	
	7	A male	yst: KL		Batch: 2221040
mg/kg	mg/kg	Allaly	yst: KL		Batch: 2221040
	mg/kg  ND	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           93.7 %           mg/kg         mg/kg           ND         20.0           87.5 %         mg/kg           ND         25.0           ND         50.0	Result         Limit         Dilution           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           MD         0.0250         1           MD         20.0250         1           MB/kg         mg/kg         Analy           ND         20.0         1           87.5 %         70-130           mg/kg         mg/kg         Analy           ND         25.0         1           ND         50.0         1	Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: IY           ND         0.0250         1         05/19/22           ND         0.0250         1         05/19/22           ND         0.0250         1         05/19/22           ND         0.0250         1         05/19/22           ND         0.0500         1         05/19/22           ND         0.0250         1         05/19/22           mg/kg         mg/kg         Analyst: IY           ND         20.0         1         05/19/22           mg/kg         mg/kg         Analyst: JL           ND         25.0         1         05/19/22           ND         25.0         1         05/19/22           ND         50.0         1         05/19/22	Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: IY           ND         0.0250         1         05/19/22         05/23/22           ND         0.0250         1         05/19/22         05/23/22           ND         0.0250         1         05/19/22         05/23/22           ND         0.0500         1         05/19/22         05/23/22           ND         0.0250         1         05/19/22         05/23/22           ND         0.0250         1         05/19/22         05/23/22           mg/kg         mg/kg         Analyst: IY           ND         20.0         1         05/19/22         05/23/22           mg/kg         mg/kg         Analyst: IY         ND         25.0         05/19/22         05/23/22           mg/kg         mg/kg         Analyst: JL         ND         25.0         1         05/19/22         05/20/22           ND         25.0         1         05/19/22         05/20/22         05/20/22           ND         50.0         1         05/19/22         05/20/22



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	5/24/2022 2:44:48PM

### CONF23 - 1.5'

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2221036
Benzene	ND	0.0250	1	05/19/22	05/23/22	
Ethylbenzene	ND	0.0250	1	05/19/22	05/23/22	
Toluene	ND	0.0250	1	05/19/22	05/23/22	
o-Xylene	ND	0.0250	1	05/19/22	05/23/22	
o,m-Xylene	ND	0.0500	1	05/19/22	05/23/22	
Total Xylenes	ND	0.0250	1	05/19/22	05/23/22	
Surrogate: 4-Bromochlorobenzene-PID		92.8 %	70-130	05/19/22	05/23/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2221036
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/22	05/23/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.3 %	70-130	05/19/22	05/23/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: JL		Batch: 2221044
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/22	05/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/22	05/20/22	
Surrogate: n-Nonane		112 %	50-200	05/19/22	05/20/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: KL		Batch: 2221040
· · · · · · · · · · · · · · · · · · ·	538	20.0		05/19/22	05/19/22	.,,



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	5/24/2022 2:44:48PM

### CONF24 - 1.5'

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: IY		Batch: 2221036
Benzene	ND	0.0250	1	05/19/22	05/23/22	
Ethylbenzene	ND	0.0250	1	05/19/22	05/23/22	
Toluene	ND	0.0250	1	05/19/22	05/23/22	
o-Xylene	ND	0.0250	1	05/19/22	05/23/22	
o,m-Xylene	ND	0.0500	1	05/19/22	05/23/22	
Total Xylenes	ND	0.0250	1	05/19/22	05/23/22	
Surrogate: 4-Bromochlorobenzene-PID		92.6 %	70-130	05/19/22	05/23/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: IY		Batch: 2221036
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/22	05/23/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.5 %	70-130	05/19/22	05/23/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: JL		Batch: 2221044
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/22	05/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/22	05/20/22	
Surrogate: n-Nonane		109 %	50-200	05/19/22	05/20/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: KL		Batch: 2221040
· ·	ND	20.0		05/19/22	05/19/22	



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	5/24/2022 2:44:48PM

### CONF25 - 1.5'

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	lyst: IY		Batch: 2221036
Benzene	ND	0.0250	1	05/19/22	05/23/22	
Ethylbenzene	ND	0.0250	1	05/19/22	05/23/22	
Toluene	ND	0.0250	1	05/19/22	05/23/22	
o-Xylene	ND	0.0250	1	05/19/22	05/23/22	
p,m-Xylene	ND	0.0500	1	05/19/22	05/23/22	
Total Xylenes	ND	0.0250	1	05/19/22	05/23/22	
Surrogate: 4-Bromochlorobenzene-PID		91.9 %	70-130	05/19/22	05/23/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	lyst: IY		Batch: 2221036
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/22	05/23/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.9 %	70-130	05/19/22	05/23/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	lyst: JL		Batch: 2221044
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/22	05/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/22	05/20/22	
Surrogate: n-Nonane		110 %	50-200	05/19/22	05/20/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	lyst: KL		Batch: 2221040



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	5/24/2022 2:44:48PM

### SS01 - 11'

		E205083-26				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	llyst: IY		Batch: 2221036
Benzene	ND	0.0250	1	05/19/22	05/23/22	
Ethylbenzene	ND	0.0250	1	05/19/22	05/23/22	
Toluene	ND	0.0250	1	05/19/22	05/23/22	
o-Xylene	ND	0.0250	1	05/19/22	05/23/22	
p,m-Xylene	ND	0.0500	1	05/19/22	05/23/22	
Total Xylenes	ND	0.0250	1	05/19/22	05/23/22	
Surrogate: 4-Bromochlorobenzene-PID		92.7 %	70-130	05/19/22	05/23/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2221036
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/22	05/23/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.0 %	70-130	05/19/22	05/23/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: JL		Batch: 2221044
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/22	05/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/22	05/20/22	
Surrogate: n-Nonane		110 %	50-200	05/19/22	05/20/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: KL		Batch: 2221040
Chloride	ND	20.0	1	05/19/22	05/19/22	



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	5/24/2022 2:44:48PM

### SS01 - 11.5'

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: IY		Batch: 2221036
Benzene	ND	0.0250	1	05/19/22	05/23/22	
Ethylbenzene	ND	0.0250	1	05/19/22	05/23/22	
Toluene	ND	0.0250	1	05/19/22	05/23/22	
o-Xylene	ND	0.0250	1	05/19/22	05/23/22	
p,m-Xylene	ND	0.0500	1	05/19/22	05/23/22	
Total Xylenes	ND	0.0250	1	05/19/22	05/23/22	
Surrogate: 4-Bromochlorobenzene-PID		92.5 %	70-130	05/19/22	05/23/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: IY		Batch: 2221036
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/22	05/23/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.6 %	70-130	05/19/22	05/23/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: JL		Batch: 2221044
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/22	05/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/22	05/20/22	
Surrogate: n-Nonane		113 %	50-200	05/19/22	05/20/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: KL		Batch: 2221040
Chloride	ND	20.0	1	05/19/22	05/19/22	_



Red Hills Facility Pad 1 05.07.22 Spill Kaiser Francis Oil Company Project Name: Reported: 1224 Standpipe Rd Project Number: 21022-0001 Carlsbad NM, 88220 Project Manager: Ashley Giovengo 5/24/2022 2:44:48PM **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 (2221036-BLK1) Prepared: 05/19/22 Analyzed: 05/23/22 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 7.40 8.00 92.5 70-130 LCS (2221036-BS1) Prepared: 05/19/22 Analyzed: 05/23/22 5.46 109 70-130 5.00 Benzene 0.0250 Ethylbenzene 5.40 0.0250 5.00 108 70-130 5.72 0.0250 5.00 114 70-130 Toluene o-Xylene 5.32 0.0250 5.00 106 70-130 11.0 10.0 110 70-130 0.0500 p.m-Xvlene 108 70-130 16.3 15.0 Total Xylenes 0.0250 8.00 92.9 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.43 Matrix Spike (2221036-MS1) Source: E205080-01 Prepared: 05/19/22 Analyzed: 05/23/22 5.52 0.0250 5.00 ND 54-133 Benzene ND 61-133 Ethylbenzene 5.46 0.0250 5.00 109 Toluene 5.80 0.0250 5.00 ND 116 61-130 ND 108 63-131 5.40 5.00 0.0250 o-Xylene p,m-Xylene 11.1 0.0500 10.0 ND 111 63-131 16.5 0.0250 15.0 ND 63-131 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.57 8.00 Matrix Spike Dup (2221036-MSD1) Source: E205080-01 Prepared: 05/19/22 Analyzed: 05/23/22 5.82 0.0250 5.00 ND 116 54-133 5.29 61-133 5.71 5.78 0.0250 5.00 ND 116 20 Ethylbenzene

61-130

63-131

63-131

63-131

70-130

5 27

5.38

5.70

5.60

20

20

20

20



6.11

5.70

11.7

17.4

7.58

0.0250

0.0250

0.0500

0.0250

5.00

5.00

10.0

15.0

8.00

ND

ND

ND

ND

122

114

117

116

94.7

Toluene

o-Xylene

p,m-Xylene

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

Red Hills Facility Pad 1 05.07.22 Spill Kaiser Francis Oil Company Project Name: Reported: 1224 Standpipe Rd Project Number: 21022-0001 Carlsbad NM, 88220 Project Manager: Ashley Giovengo 5/24/2022 2:44:48PM **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 (2221038-BLK1) Prepared: 05/19/22 Analyzed: 05/23/22 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 7.82 8.00 97.7 70-130 LCS (2221038-BS1) Prepared: 05/19/22 Analyzed: 05/23/22 5.05 101 70-130 5.00 Benzene 0.0250 Ethylbenzene 4.58 0.0250 5.00 91.7 70-130 4.84 0.0250 5.00 96.9 70-130 Toluene o-Xylene 4.76 0.0250 5.00 95.1 70-130 9.46 10.0 94.6 70-130 0.0500 p.m-Xvlene 94.8 70-130 14.2 15.0 Total Xylenes 0.0250 8.00 106 70-130 Surrogate: 4-Bromochlorobenzene-PID 8.48 Matrix Spike (2221038-MS1) Source: E205083-02 Prepared: 05/19/22 Analyzed: 05/23/22 5.28 0.0250 5.00 ND 54-133 Benzene ND 95.4 61-133 Ethylbenzene 4.77 0.0250 5.00 Toluene 5.05 0.0250 5.00 ND 101 61-130 4.95 ND 99.1 63-131 5.00 0.0250 o-Xylene p,m-Xylene 9.83 0.0500 10.0 ND 98.3 63-131 14.8 0.0250 15.0 ND 63-131 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 8.23 8.00 Matrix Spike Dup (2221038-MSD1) Source: E205083-02 Prepared: 05/19/22 Analyzed: 05/23/22 5.33 0.0250 5.00 ND 54-133 0.890 20 61-133 4.83 0.0250 5.00 ND 96.7 1.31 20 Ethylbenzene 61-130 Toluene 5.11 0.0250 5.00 ND 102 1.13 20 5.01 5.00 ND 100 63-131 1.17 20 o-Xylene 0.0250 9.97 10.0 ND 99.7 63-131 1.40 20 p,m-Xylene 0.0500



15.0

8.37

0.0250

15.0

8.00

ND

99.9

105

63-131

70-130

1.33

20

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	_
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	5/24/2022 2:44:48PM

Carlsbad NM, 88220		Project Manage	r: As	hley Gioveng	go			5/.	24/2022 2:44:48PM	
	Nonhalogenated Organics by EPA 8015D - GRO							Analyst: IY		
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes	
Blank (2221036-BLK1)					Prepared:			epared: 05/19/22 Analyzed: 05/23/22		
Gasoline Range Organics (C6-C10)	ND	20.0								
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.92		8.00		86.6	70-130				
LCS (2221036-BS2)							Prepared: 0:	5/19/22 Ana	lyzed: 05/23/22	
Gasoline Range Organics (C6-C10)	39.9	20.0	50.0		79.7	70-130				
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.92		8.00		86.5	70-130				
Matrix Spike (2221036-MS2)				Source:	Source: E205080-01			Prepared: 05/19/22 Analyzed: 05/23/22		
Gasoline Range Organics (C6-C10)	42.2	20.0	50.0	ND	84.3	70-130				
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.02		8.00		87.7	70-130				
Matrix Spike Dup (2221036-MSD2)				Source:	E205080-0	01	Prepared: 0:	5/19/22 Ana	lyzed: 05/24/22	
Gasoline Range Organics (C6-C10)	42.4	20.0	50.0	ND	84.8	70-130	0.513	20		
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.86		8.00		85.7	70-130				



Kaiser Francis Oil Company 1224 Standpipe Rd	Project Name: Project Number:	Red Hills Facility Pad 1 05.07.22 Spill 21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	5/24/2022 2:44:48PM

Carlsbad NM, 88220		Project Manage	r: As	shley Giovens	go			5/2	4/2022 2:44:48PM	
	Nonhalogenated Organics by EPA 8015D - GRO							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 (2221038-BLK1)							Prepared: 0	5/19/22 Anal	yzed: 05/23/22	
Gasoline Range Organics (C6-C10)	ND	20.0								
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.43		8.00		92.9	70-130				
LCS (2221038-BS2)							Prepared: 0	5/19/22 Anal	yzed: 05/23/22	
Gasoline Range Organics (C6-C10)	46.2	20.0	50.0		92.4	70-130				
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.46		8.00		93.2	70-130				
Matrix Spike (2221038-MS2)				Source:	E205083-	02	Prepared: 0	5/19/22 Anal	yzed: 05/23/22	
Gasoline Range Organics (C6-C10)	48.1	20.0	50.0	ND	96.1	70-130				
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.43		8.00		92.8	70-130				
Matrix Spike Dup (2221038-MSD2)				Source:	E205083-	02	Prepared: 0	5/19/22 Anal	yzed: 05/23/22	
Gasoline Range Organics (C6-C10)	47.2	20.0	50.0	ND	94.4	70-130	1.85	20		
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.41		8.00		92.6	70-130				

Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 1 05.07.22 SpillReported:1224 Standpipe RdProject Number:21022-0001Carlsbad NM, 88220Project Manager:Ashley Giovengo5/24/2022 2:44:48PM

Carlsbad NM, 88220		Project Manage	r: As	shley Gioveng	go				5/24/2022 2:44:48PN		
	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 (2221044-BLK1)							Prepared: 0	5/19/22 Ar	nalyzed: 05/19/22		
Diesel Range Organics (C10-C28)	ND	25.0									
il Range Organics (C28-C36)	ND	50.0									
urrogate: n-Nonane	52.7		50.0		105	50-200					
LCS (2221044-BS1)							Prepared: 0	5/19/22 Ar	nalyzed: 05/19/22		
Diesel Range Organics (C10-C28)	419	25.0	500		83.9	38-132					
urrogate: n-Nonane	49.9		50.0		99.9	50-200					
Matrix Spike (2221044-MS1)				Source:	E205083-2	27	Prepared: 0	5/19/22 Ar	nalyzed: 05/19/22		
Diesel Range Organics (C10-C28)	441	25.0	500	ND	88.3	38-132					
urrogate: n-Nonane	53.6		50.0		107	50-200					
Matrix Spike Dup (2221044-MSD1)				Source:	E205083-2	27	Prepared: 0	5/19/22 Ar	nalyzed: 05/19/22		
Diesel Range Organics (C10-C28)	440	25.0	500	ND	87.9	38-132	0.376	20			
urrogate: n-Nonane	53.9		50.0		108	50-200					

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	5/24/2022 2:44:48PM

Carlsbad NM, 88220		Project Manage	r: As	hley Gioveng	go				5/24/2022 2:44:48PN
	Nonhal	logenated Or	ganics by	EPA 8015I	D - 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 (2221046-BLK1)							Prepared: 0	5/19/22 A1	nalyzed: 05/19/22
tiesel Range Organics (C10-C28)	ND	25.0							
vil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	60.1		50.0		120	50-200			
CS (2221046-BS1)							Prepared: 0	5/19/22 Aı	nalyzed: 05/19/22
riesel Range Organics (C10-C28)	487	25.0	500		97.5	38-132			
urrogate: n-Nonane	58.0		50.0		116	50-200			
Aatrix Spike (2221046-MS1)				Source:	E205083-	11	Prepared: 0	5/19/22 Aı	nalyzed: 05/19/22
riesel Range Organics (C10-C28)	501	25.0	500	ND	100	38-132			
urrogate: n-Nonane	61.8		50.0		124	50-200			
Matrix Spike Dup (2221046-MSD1)				Source:	E205083-	11	Prepared: 0	5/19/22 A1	nalyzed: 05/19/22
riesel Range Organics (C10-C28)	478	25.0	500	ND	95.5	38-132	4.72	20	
urrogate: n-Nonane	60.1		50.0		120	50-200			



Analyst: KL

# **QC Summary Data**

Kaiser Francis Oil Company 1224 Standpipe Rd	Project Name: Project Number:	Red Hills Facility Pad 1 05.07.22 Spill 21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	5/24/2022 2:44:48PM

Anions	by EPA 3	00.0/9056A		
Reporting	Spike	Source	Rec	RPD

Analyte	Result	Limit Limit	Spike Level	Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2221040-BLK1)							Prepared: 0	5/19/22 Anal	yzed: 05/19/22
Chloride	ND	20.0							
LCS (2221040-BS1)							Prepared: 0	5/19/22 Anal	yzed: 05/19/22
Chloride	258	20.0	250		103	90-110			
Matrix Spike (2221040-MS1)				Source:	E205080-	01	Prepared: 0	5/19/22 Anal	yzed: 05/19/22
Chloride	326	20.0	250	67.7	103	80-120			
Matrix Spike Dup (2221040-MSD1)				Source:	E205080-	01	Prepared: 0	5/19/22 Anal	yzed: 05/19/22
Chloride	325	20.0	250	67.7	103	80-120	0.304	20	



Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220		Project Name: Project Number Project Manager	: 2	Red Hills Facil 1022-0001 Ashley Gioven	•	5.07.22 Spi	11		<b>Reported:</b> 5/24/2022 2:44:48PM				
		Anions	by EPA	300.0/9056	A				Analyst: KL				
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit					
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes				
Blank (2221041-BLK1)							Prepared: 0	5/19/22	Analyzed: 05/19/22				
Chloride	ND	20.0											

Chloride	ND	20.0								
LCS (2221041-BS1)							Prepared: 05	5/19/22	Analyzed: 0	5/20/22
Chloride	261	20.0	250		105	90-110				
<b>Matrix Spike (2221041-MS1)</b>				Source: 1	E <b>205083-</b> 0	1	Prepared: 05	5/19/22	Analyzed: 0	5/20/22
Chloride	362	20.0	250	85.1	111	80-120				
Matrix Spike Dup (2221041-MSD1)				Source: 1	E <b>205083-</b> 0	1	Prepared: 05	5/19/22	Analyzed: 0	5/20/22
Chloride	354	20.0	250	85.1	108	80-120	2.26	20		

#### QC Summary Report Comment:

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



### **Definitions and Notes**

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	05/24/22 14:44

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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Lyone: 2011	ipies are dis	carded 30 a	lave after ea	culto man anno di	less other arrangement story with this COC. Th	nts are made. Hazardous he llability of the laborato	Containe   samples w  ry is limited	r Type II be n to the	eturned amoun	to cl	p - po lient o d for e	ly/plas or dispos on the re	tic, ag	- ambo	er glas lent er	SS, V - kpensi	VOA 2. Tho	report for	the analysi	s of the	e above



envirotech Inc.

Printed: 5/18/2022 11:21:42AM

#### **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:	05/18/22	11:00	Work Order ID:	E205083
Phone:	(505) 382-1211	Date Logged In:	05/18/22	08:46	Logged In By:	Caitlin Christian
Email:	ashley.giovengo@wescominc.com	Due Date:	05/24/22	17:00 (4 day TAT)		
GI. I						
	f Custody (COC)		••			
	the sample ID match the COC?	oh the COC	Yes			
	the number of samples per sampling site location mat	ich the COC	Yes			
	samples dropped off by client or carrier?	-4- 419	Yes Yes	Carrier: <u>UPS</u>		
	ne COC complete, i.e., signatures, dates/times, reques	sted analyses?				
5. were	all samples received within holding time?  Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssion.		Yes		<u>Comment</u>	s/Resolution
	<u> Turn Around Time (TAT)</u>					
6. Did th	e COC indicate standard TAT, or Expedited TAT?		Yes			
<b>Sample</b>						
	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes			
9. Was tl	ne sample(s) received intact, i.e., not broken?		Yes			
10. Were	custody/security seals present?		No			
11. If ye	s, were custody/security seals intact?		NA			
	he 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 <u>C</u>			
Sample	<u>Container</u>					
	aqueous VOC samples present?		No			
	VOC samples collected in VOA Vials?		NA			
	e head space less than 6-8 mm (pea sized or less)?		NA			
17. Was	a trip blank (TB) included for VOC analyses?		NA			
	non-VOC samples collected in the correct containers'	?	Yes			
	appropriate volume/weight or number of sample contain		Yes			
Field La	•					
	e field sample labels filled out with the minimum info	rmation:				
	Sample ID?		Yes			
	Date/Time Collected?		Yes			
	Collectors name?		No			
	<u>Preservation</u>					
	the COC or field labels indicate the samples were pr	eserved?	No			
	sample(s) correctly preserved?		NA			
24. Is lat	o filteration required and/or requested for dissolved n	netals?	No			
	ase Sample Matrix					
	the sample have more than one phase, i.e., multipha		No			
27. If ye	s, does the COC specify which phase(s) is to be analy	zed?	NA			
Subcont	ract Laboratory					
	samples required to get sent to a subcontract laborator	ry?	No			
	a subcontract laboratory specified by the client and it	•	NA	Subcontract Lab: na		
Client l	nstruction					
<u>enene i</u>	non action					

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

Report to:
Ashley Giovengo



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: Red Hills Facility Pad 1 05.07.22

Spill

Work Order: E206065

Job Number: 21022-0001

Received: 6/10/2022

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 6/16/22

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

Date Reported: 6/16/22

Ashley Giovengo 1224 Standpipe Rd Carlsbad, NM 88220

Project Name: Red Hills Facility Pad 1 05.07.22 Spill

Workorder: E206065

Date Received: 6/10/2022 4:30:00PM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/10/2022 4:30:00PM, under the Project Name: Red Hills Facility Pad 1 05.07.22 Spill.

The analytical test results summarized in this report with the Project Name: Red Hills Facility Pad 1 05.07.22 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

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**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:	Red Hills Facility Pad 1 05.07.22 Spill	Donoutoda
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/16/22 11:09

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS02 - 1'	E206065-01A	Soil	06/07/22	06/10/22	Glass Jar, 8 oz.
SS03 - 2'	E206065-02A	Soil	06/07/22	06/10/22	Glass Jar, 8 oz.
SS04 - 0'	E206065-03A	Soil	06/07/22	06/10/22	Glass Jar, 8 oz.
SS05 - 0'	E206065-04A	Soil	06/07/22	06/10/22	Glass Jar, 8 oz.
SS06 - 0'	E206065-05A	Soil	06/07/22	06/10/22	Glass Jar, 8 oz.
SS07 - 0'	E206065-06A	Soil	06/07/22	06/10/22	Glass Jar, 8 oz.
SS08 - 0'	E206065-07A	Soil	06/07/22	06/10/22	Glass Jar, 8 oz.
SS09 - 0'	E206065-08A	Soil	06/07/22	06/10/22	Glass Jar, 8 oz.

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/16/2022 11:09:36AM

#### SS02 - 1' E206065-01

	E206065-01				
	Reporting				
Result	Limit	Dilutio	n Prepared	Analyzed	Notes
mg/kg	mg/kg	An	alyst: IY		Batch: 2225004
ND	0.0250	1	06/13/22	06/14/22	
ND	0.0250	1	06/13/22	06/14/22	
ND	0.0250	1	06/13/22	06/14/22	
ND	0.0250	1	06/13/22	06/14/22	
ND	0.0500	1	06/13/22	06/14/22	
ND	0.0250	1	06/13/22	06/14/22	
	93.2 %	70-130	06/13/22	06/14/22	
mg/kg	mg/kg	An	alyst: IY		Batch: 2225004
ND	20.0	1	06/13/22	06/14/22	
	90.9 %	70-130	06/13/22	06/14/22	
mg/kg	mg/kg	An	alyst: AK		Batch: 2225008
ND	25.0	1	06/14/22	06/15/22	
ND	50.0	1	06/14/22	06/15/22	
	105 %	50-200	06/14/22	06/15/22	
mg/kg	mg/kg	An	alyst: RAS		Batch: 2225006
141	20.0	1	06/13/22	06/14/22	
	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           mg/kg         mg/kg           mg/kg         mg/kg           MD         20.0           90.9 %         mg/kg           MD         25.0           ND         50.0           105 %         mg/kg           mg/kg         mg/kg	Reporting           Result         Limit         Dilution           mg/kg         mg/kg         Am           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           93.2 %         70-130         70-130           mg/kg         mg/kg         Am           ND         20.0         1           90.9 %         70-130           mg/kg         mg/kg         Am           ND         25.0         1           ND         50.0         1           105 %         50-200         1           mg/kg         mg/kg         Am	Reporting           Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: IY           ND         0.0250         1         06/13/22           ND         0.0250         1         06/13/22           ND         0.0250         1         06/13/22           ND         0.0250         1         06/13/22           ND         0.0500         1         06/13/22           ND         0.0250         1         06/13/22           mg/kg         mg/kg         Analyst: IY           ND         20.0         1         06/13/22           mg/kg         mg/kg         Analyst: AK           ND         25.0         1         06/14/22           ND         50.0         1         06/14/22           ND         50.0         1         06/14/22           MD         50.0         1         06/14/22           mg/kg         mg/kg         Analyst: AK	Reporting           Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: IY           ND         0.0250         1         06/13/22         06/14/22           ND         0.0250         1         06/13/22         06/14/22           ND         0.0250         1         06/13/22         06/14/22           ND         0.0500         1         06/13/22         06/14/22           ND         0.0250         1         06/13/22         06/14/22           ND         0.0250         1         06/13/22         06/14/22           MD         0.0250         1         06/13/22         06/14/22           mg/kg         mg/kg         Analyst: IY         ND         20.0         1         06/13/22         06/14/22           mg/kg         mg/kg         Analyst: AK         ND         25.0         1         06/13/22         06/14/22           ND         25.0         1         06/14/22         06/15/22           ND         50.0         1         06/14/22         06/15/22           ND         50.0         1         06/14/22         06/15/22



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/16/2022 11:09:36AM

SS03 - 2'

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	llyst: IY		Batch: 2225004
Benzene	ND	0.0250	1	06/13/22	06/14/22	
Ethylbenzene	ND	0.0250	1	06/13/22	06/14/22	
Toluene	ND	0.0250	1	06/13/22	06/14/22	
o-Xylene	ND	0.0250	1	06/13/22	06/14/22	
p,m-Xylene	ND	0.0500	1	06/13/22	06/14/22	
Total Xylenes	ND	0.0250	1	06/13/22	06/14/22	
Surrogate: 4-Bromochlorobenzene-PID		92.8 %	70-130	06/13/22	06/14/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2225004
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/13/22	06/14/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.0 %	70-130	06/13/22	06/14/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: AK		Batch: 2225008
Diesel Range Organics (C10-C28)	ND	25.0	1	06/14/22	06/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/14/22	06/15/22	
Surrogate: n-Nonane		97.4 %	50-200	06/14/22	06/15/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	llyst: RAS		Batch: 2225006
-	413	20.0		06/13/22	06/14/22	



I	Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	
1	1224 Standpipe Rd	Project Number:	21022-0001	Reported:
(	Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/16/2022 11:09:36AM

#### SS04 - 0'

		D 4:				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Allalytt	Kesuit	Lillit	Dilution	1 repared	Analyzeu	TOLES
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: IY		Batch: 2225004
Benzene	ND	0.0250	1	06/13/22	06/14/22	
Ethylbenzene	ND	0.0250	1	06/13/22	06/14/22	
Toluene	ND	0.0250	1	06/13/22	06/14/22	
o-Xylene	ND	0.0250	1	06/13/22	06/14/22	
p,m-Xylene	ND	0.0500	1	06/13/22	06/14/22	
Total Xylenes	ND	0.0250	1	06/13/22	06/14/22	
Surrogate: 4-Bromochlorobenzene-PID		92.5 %	70-130	06/13/22	06/14/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: IY		Batch: 2225004
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/13/22	06/14/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.1 %	70-130	06/13/22	06/14/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: AK		Batch: 2225008
Diesel Range Organics (C10-C28)	ND	25.0	1	06/14/22	06/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/14/22	06/15/22	
Surrogate: n-Nonane		105 %	50-200	06/14/22	06/15/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2225006
Chloride	59.3	20.0	1	06/13/22	06/14/22	



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/16/2022 11:09:36AM

#### SS05 - 0'

		D 4				
Analyte	Result	Reporting Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		alyst: IY	1 mary 200	Batch: 2225004
Benzene	ND	0.0250	1	06/13/22	06/14/22	
Ethylbenzene	ND	0.0250	1	06/13/22	06/14/22	
Toluene	ND	0.0250	1	06/13/22	06/14/22	
o-Xylene	ND	0.0250	1	06/13/22	06/14/22	
p,m-Xylene	ND	0.0500	1	06/13/22	06/14/22	
Total Xylenes	ND	0.0250	1	06/13/22	06/14/22	
Surrogate: 4-Bromochlorobenzene-PID		92.4 %	70-130	06/13/22	06/14/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2225004
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/13/22	06/14/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.3 %	70-130	06/13/22	06/14/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: AK		Batch: 2225008
Diesel Range Organics (C10-C28)	ND	25.0	1	06/14/22	06/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/14/22	06/15/22	
Surrogate: n-Nonane		105 %	50-200	06/14/22	06/15/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: RAS		Batch: 2225006
Chloride	94.3	40.0	2	06/13/22	06/14/22	•



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/16/2022 11:09:36AM

#### SS06 - 0'

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2225004
Benzene	ND	0.0250	1	06/13/22	06/14/22	
Ethylbenzene	ND	0.0250	1	06/13/22	06/14/22	
Toluene	ND	0.0250	1	06/13/22	06/14/22	
o-Xylene	ND	0.0250	1	06/13/22	06/14/22	
p,m-Xylene	ND	0.0500	1	06/13/22	06/14/22	
Total Xylenes	ND	0.0250	1	06/13/22	06/14/22	
Surrogate: 4-Bromochlorobenzene-PID		92.2 %	70-130	06/13/22	06/14/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	Analyst: IY		Batch: 2225004
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/13/22	06/14/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.0 %	70-130	06/13/22	06/14/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: AK		Batch: 2225008
Diesel Range Organics (C10-C28)	ND	25.0	1	06/14/22	06/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/14/22	06/15/22	
Surrogate: n-Nonane		103 %	50-200	06/14/22	06/15/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: RAS		Batch: 2225006
· · · · · · · · · · · · · · · · · · ·	115	20.0		06/13/22	06/14/22	



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/16/2022 11:09:36AM

SS07 - 0'

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: IY		Batch: 2225004
Benzene	ND	0.0250	1	06/13/22	06/14/22	
Ethylbenzene	ND	0.0250	1	06/13/22	06/14/22	
Toluene	ND	0.0250	1	06/13/22	06/14/22	
o-Xylene	ND	0.0250	1	06/13/22	06/14/22	
p,m-Xylene	ND	0.0500	1	06/13/22	06/14/22	
Total Xylenes	ND	0.0250	1	06/13/22	06/14/22	
Surrogate: 4-Bromochlorobenzene-PID		92.2 %	70-130	06/13/22	06/14/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	Analyst: IY		Batch: 2225004
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/13/22	06/14/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.2 %	70-130	06/13/22	06/14/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: AK		Batch: 2225008
Diesel Range Organics (C10-C28)	ND	25.0	1	06/14/22	06/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/14/22	06/15/22	
Surrogate: n-Nonane		105 %	50-200	06/14/22	06/15/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2225006
Chloride	ND	20.0	1	06/13/22	06/14/22	



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/16/2022 11:09:36AM

#### SS08 - 0'

		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ar	alyst: IY		Batch: 2225004
Benzene	ND	0.0250	1	06/13/22	06/14/22	
Ethylbenzene	ND	0.0250	1	06/13/22	06/14/22	
Toluene	ND	0.0250	1	06/13/22	06/14/22	
o-Xylene	ND	0.0250	1	06/13/22	06/14/22	
p,m-Xylene	ND	0.0500	1	06/13/22	06/14/22	
Total Xylenes	ND	0.0250	1	06/13/22	06/14/22	
Surrogate: 4-Bromochlorobenzene-PID		93.0 %	70-130	06/13/22	06/14/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2225004
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/13/22	06/14/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.1 %	70-130	06/13/22	06/14/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ar	nalyst: AK		Batch: 2225008
Diesel Range Organics (C10-C28)	ND	25.0	1	06/14/22	06/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/14/22	06/15/22	
Surrogate: n-Nonane		101 %	50-200	06/14/22	06/15/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ar	nalyst: RAS		Batch: 2225006
Chloride	ND	20.0	1	06/13/22	06/14/22	·



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/16/2022 11:09:36AM

SS09 - 0'

		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: IY		Batch: 2225004
Benzene	ND	0.0250	1	06/13/22	06/14/22	
Ethylbenzene	ND	0.0250	1	06/13/22	06/14/22	
Toluene	ND	0.0250	1	06/13/22	06/14/22	
o-Xylene	ND	0.0250	1	06/13/22	06/14/22	
p,m-Xylene	ND	0.0500	1	06/13/22	06/14/22	
Total Xylenes	ND	0.0250	1	06/13/22	06/14/22	
Surrogate: 4-Bromochlorobenzene-PID		92.2 %	70-130	06/13/22	06/14/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2225004
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/13/22	06/14/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.9 %	70-130	06/13/22	06/14/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: AK		Batch: 2225008
Diesel Range Organics (C10-C28)	ND	25.0	1	06/14/22	06/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/14/22	06/15/22	
Surrogate: n-Nonane		104 %	50-200	06/14/22	06/15/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: RAS		Batch: 2225006
Chloride	ND	20.0	1	06/13/22	06/14/22	·



		<u> </u>		<u> </u>						
Kaiser Francis Oil Company 1224 Standpipe Rd		Project Name: Project Number:		Red Hills Facil	ity Pad 1 0	5.07.22 Sp	oill		Reported:	
* *		•							C/1 C/2022 11 00 2C 13	
Carlsbad NM, 88220		Project Manager:	: A	Ashley Gioven	go				6/16/2022 11:09:36AM	
		Volatile O	rganics	by EPA 802	21B			Analyst: RKS		
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2225004-BLK1)							Prepared: 0	6/13/22 A	nalyzed: 06/14/22	
Benzene	ND	0.0250							<u> </u>	
Ethylbenzene	ND	0.0250								
Toluene	ND	0.0250								
o-Xylene	ND	0.0250								
o,m-Xylene	ND	0.0500								
Total Xylenes	ND	0.0250								
Surrogate: 4-Bromochlorobenzene-PID	7.27		8.00		90.9	70-130				
LCS (2225004-BS1)							Prepared: 0	6/13/22 A	nalyzed: 06/14/22	
Benzene	5.17	0.0250	5.00		103	70-130				
Ethylbenzene	4.70	0.0250	5.00		94.1	70-130				
Toluene	4.99	0.0250	5.00		99.8	70-130				
o-Xylene	4.88	0.0250	5.00		97.7	70-130				
o,m-Xylene	9.70	0.0500	10.0		97.0	70-130				
Total Xylenes	14.6	0.0250	15.0		97.2	70-130				
Surrogate: 4-Bromochlorobenzene-PID	7.48		8.00		93.4	70-130				
Matrix Spike (2225004-MS1)				Source:	E206064-	02	Prepared: 0	6/13/22 A	nalyzed: 06/14/22	
Benzene	5.57	0.0250	5.00	ND	111	54-133				
Ethylbenzene	5.06	0.0250	5.00	ND	101	61-133				
Toluene	5.38	0.0250	5.00	ND	108	61-130				
p-Xylene	5.27	0.0250	5.00	ND	105	63-131				
o,m-Xylene	10.4	0.0500	10.0	ND	104	63-131				
Total Xylenes	15.7	0.0250	15.0	ND	105	63-131				
Surrogate: 4-Bromochlorobenzene-PID	7.63		8.00		95.4	70-130				
Matrix Spike Dup (2225004-MSD1)				Source:	E206064-	02	Prepared: 0	6/13/22 A	nalyzed: 06/14/22	
Benzene	5.44	0.0250	5.00	ND	109	54-133	2.36	20		
Ethylbenzene	4.94	0.0250	5.00	ND	98.9	61-133	2.33	20		
Toluene	5.25	0.0250	5.00	ND	105	61-130	2.40	20		
o-Xylene	5.14	0.0250	5.00	ND	103	63-131	2.43	20		

10.0

15.0

8.00

0.0500

0.0250

ND

ND

102

102

95.5

63-131

63-131

70-130

2.35

2.38

20

20



p,m-Xylene

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

10.2

15.3

7.64

Kaiser Francis Oil Company	Project Name: Project Number:	Red Hills Facility Pad 1 05.07.22 Spill 21022-0001	Reported:
1224 Standpipe Rd Carlsbad NM, 88220	Project Number: Project Manager:	Ashley Giovengo	6/16/2022 11:09:36AM

Carlsbad NM, 88220		Project Manager	r: As	hley Gioveng	go			6/16	/2022 11:09:36AM	
	Nonhalogenated Organics by EPA 8015D - GRO								Analyst: RKS	
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec	Rec Limits	RPD %	RPD Limit %	Notes	
Blank (2225004-BLK1)							Prepared: 0	6/13/22 Analy	zed: 06/14/22	
Gasoline Range Organics (C6-C10)	ND	20.0								
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.21		8.00		90.2	70-130				
LCS (2225004-BS2)							Prepared: 0	6/13/22 Analy	zed: 06/14/22	
Gasoline Range Organics (C6-C10)	53.0	20.0	50.0		106	70-130				
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.33		8.00		91.7	70-130				
Matrix Spike (2225004-MS2)				Source:	E206064-	02	Prepared: 0	6/13/22 Analy	zed: 06/14/22	
Gasoline Range Organics (C6-C10)	53.2	20.0	50.0	ND	106	70-130				
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.26		8.00		90.8	70-130				
Matrix Spike Dup (2225004-MSD2)				Source:	E206064-	02	Prepared: 0	6/13/22 Analy	zed: 06/14/22	
Gasoline Range Organics (C6-C10)	52.2	20.0	50.0	ND	104	70-130	1.91	20		
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.19		8.00		89.9	70-130				

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	-
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/16/2022 11:09:36AM

Carlsbad NM, 88220		Project Manager	r: As	shley Gioveng	go			6/	16/2022 11:09:36AN
	Nonha	logenated Or	ganics by	EPA 8015I	) - DRO	/ORO			Analyst: AK
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2225008-BLK1)							Prepared: 0	6/14/22 Ana	alyzed: 06/14/22
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	49.4		50.0		98.8	50-200			
LCS (2225008-BS1)							Prepared: 0	6/14/22 Ana	alyzed: 06/14/22
Diesel Range Organics (C10-C28)	468	25.0	500		93.6	38-132			
urrogate: n-Nonane	50.3		50.0		101	50-200			
Matrix Spike (2225008-MS1)				Source:	E206064-	04	Prepared: 0	6/14/22 Ana	alyzed: 06/14/22
Diesel Range Organics (C10-C28)	476	25.0	500	ND	95.3	38-132			
urrogate: n-Nonane	50.6		50.0		101	50-200			
Matrix Spike Dup (2225008-MSD1)				Source:	E206064-	04	Prepared: 0	6/14/22 Ana	alyzed: 06/14/22
Diesel Range Organics (C10-C28)	471	25.0	500	ND	94.2	38-132	1.15	20	
Gurrogate: n-Nonane	50.5		50.0		101	50-200			



Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	2	Red Hills Facili 21022-0001 Ashley Gioveng	•	5.07.22 S <sub>l</sub>	oill		<b>Reported:</b> 6/16/2022 11:09:36AM
		Anions l	by EPA	300.0/9056 <i>A</i>	<b>A</b>				Analyst: RAS
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2225006-BLK1)							Prepared: 0	6/13/22	Analyzed: 06/14/22
Chloride	ND	20.0							
LCS (2225006-BS1)							Prepared: 0	6/13/22	Analyzed: 06/14/22
Chloride	246	20.0	250		98.5	90-110			
Matrix Spike (2225006-MS1)				Source:	E206064-0	)1	Prepared: 0	6/13/22	Analyzed: 06/14/22
Chloride	298	20.0	250	39.9	103	80-120			
Matrix Spike Dup (2225006-MSD1)				Source:	E206064-0	)1	Prepared: 0	6/13/22	Analyzed: 06/14/22
Chloride	298	20.0	250	39.9	103	80-120	0.242	20	

#### QC Summary Report Comment:

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



### **Definitions and Notes**

Kaiser Francis Oil Company Project Name: Red Hills Facility Pad 1 05.07.22 Spill

1224 Standpipe Rd Project Number: 21022-0001 Reported:

Carlsbad NM, 88220 Project Manager: Ashley Giovengo 06/16/22 11:09

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.



ol:		. 611.6				D/0 m		1											
	aiser Fran			- 2 W		Bill To					b Us	e On				TAT			rogram
	Red Hills			7.22 Spill		ntion: Wescom Inc		Lab '	WO#	~/	_	Job I	Number	1D	2D	3D 5	Standard	CWA	SDW
	Manager:					ess: 1224 Standpipe Rd	00000	Ea	206	U	0		1000-25				X		
	1224 Sta					State, Zip: Carlsbad, NM	88220			-	- 1	Analy	sis and Meth	nod	1				RCR
	te, Zip: Ca		IM 88220			e: 505-382-1211	Lander - Mark	-	100									-	
	505-382-1				Email	l: ashley.giovengo@weso	ominc.com	8015	3015					M.			vi 4 00	State	I I
	shley.giov	engo@w	escomino	c.com				þ	by 8	021	09	10	00.00	Σ	X		NM CO	UT AZ	TX
Report d					200		I tak	ORO	DRO	by 8	34 82	s 60	de 3		100		×		
Time Sampled	Date Sampled	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			Remarks	
9:41	6/7/22	Soil	1 Jar			SS02 - 1'							шш	x					
10:30	6/7/22	Soil	1 Jar	21	5	SS03 - 2'	2						7	х					
11:00	6/7/22	Soil	1 Jar			SS04 - 0'	3					Ħ		х					
11:13	6/7/22	Soil	1 Jar		9	SS05 - 0'	4							х					
11:26	6/7/22	Soil	1 Jar			SS06 - 0'	5							x					
11:39	6/7/22	Soil	1 Jar	N.		SS07 - 0'	9							х					
11:51	6/7/22	Soil	1 Jar			SS08 - 0'	7					H		х					
11:55	6/7/22	Soil	1 Jar			SS09 - 0'	8												
		3011	1 Jai				8							Х			+		_
														Х					
														х					
Addition	al Instruc	tions: k	Cept on ic	e, Please CC: c	ole.burtor	n@wescominc.com, shar.	harvester@we	scomi	inc.cc	m, a	shle	y.gio	vengo@we	scomi	nc.co	m			
				icity of this sample. I		et tampering with or intentionally n Sampled by:	islabelling the sampl	e locatio	on,				s requiring therma In ice at an avg te						ed or receiv
Relinquish	ed by: (Signa	ture)	Date	.09.22 [ine		Received by: (Signature)	Date C-	िका	Time	. 8		Brece	ived on ice	. /	ab U	se Only			, .
Reu auish	ad Gy (Signe	ature)	Date	- Con Time	15	Recember by: (signature)	Date Ldio	100	Time	:3	7	7 T1		T2			T3 //		
Relinquish	ed by: (Signa	ature)	Date	Time		Received by: (Signature)	Date	- CK	Time				Temp °C	4			-/		
	trix: <b>S</b> - Soil, <b>S</b> c	r want or					Containe						A LONG THE RESERVE AND ADDRESS OF THE PERSON	-				-3-2-6	

Printed: 6/10/2022 5:28:03PM

#### **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:	06/10/22	16:30	Work Order ID:	E206065
Phone:	(505) 382-1211	Date Logged In:	06/10/22	09:41	Logged In By:	Caitlin Christian
Email:	ashley.giovengo@wescominc.com	Due Date:	06/16/22	17:00 (4 day TAT)		
	f Custody (COC)					
	the sample ID match the COC?	-1-4 COC	Yes			
	the number of samples per sampling site location man	ch the COC	Yes			
	samples dropped off by client or carrier?	. 1 1 0	Yes	Carrier: Courier		
	ne COC complete, i.e., signatures, dates/times, reques	sted analyses?	Yes			
5. Were	all samples received within holding time?  Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssion.		Yes		<u>Comment</u>	ts/Resolution
<b>Sample</b>	Turn Around Time (TAT)					
6. Did th	te COC indicate standard TAT, or Expedited TAT?		Yes			
<b>Sample</b>						
	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes			
9. Was tl	ne sample(s) received intact, i.e., not broken?		Yes			
10. Were	e custody/security seals present?		No			
11. If ye	s, were custody/security seals intact?		NA			
	he sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples ar minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes			
Sample	Container					
	aqueous VOC samples present?		No			
	VOC samples collected in VOA Vials?		NA			
	e head space less than 6-8 mm (pea sized or less)?		NA			
	a trip blank (TB) included for VOC analyses?		NA			
	non-VOC samples collected in the correct containers'	?	Yes			
	appropriate volume/weight or number of sample contain		Yes			
Field La	•					
	e field sample labels filled out with the minimum info	rmation:				
	Sample ID?		Yes			
	Date/Time Collected?		Yes	<u> </u>		
	Collectors name?		No			
	<u>Preservation</u>					
	s the COC or field labels indicate the samples were pr	eserved?	No			
	sample(s) correctly preserved?		NA			
24. Is lat	o filteration required and/or requested for dissolved n	netals?	No			
	ase Sample Matrix					
	s the sample have more than one phase, i.e., multipha		No			
27. If ye	s, does the COC specify which phase(s) is to be analy	zed?	NA			
Subcont	ract Laboratory					
	samples required to get sent to a subcontract laborato	ry?	No			
	a subcontract laboratory specified by the client and it	•	NA	Subcontract Lab: na		
Client l	Instruction					
<u>enene i</u>	<u> </u>					

Date

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: Red Hills Facility Pad 1 05.07.22

Spill

Work Order: E207081

Job Number: 21022-0001

Received: 7/18/2022

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 7/19/22

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

Date Reported: 7/19/22

Ashley Giovengo 1224 Standpipe Rd Carlsbad, NM 88220

Project Name: Red Hills Facility Pad 1 05.07.22 Spill

Workorder: E207081

Date Received: 7/18/2022 10:05:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/18/2022 10:05:00AM, under the Project Name: Red Hills Facility Pad 1 05.07.22 Spill.

The analytical test results summarized in this report with the Project Name: Red Hills Facility Pad 1 05.07.22 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

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Raina Schwanz

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**Alexa Michaels** 

Sample Custody Officer Office: 505-632-1881

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ljarboe@envirotech-inc.com

West Texas Midland/Odessa Area Rayny Hagan

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

Envirotech Web Address: www.envirotech-inc.com

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### Sample Summary

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	Keporteu.
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	07/19/22 17:01

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CONF25 - 1.5'	E207081-01A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
CONF26 - 1.5'	E207081-02A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
CONF27 - 1.5'	E207081-03A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
CONF28 - 1.5'	E207081-04A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
CONF29 - 1.5'	E207081-05A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
CONF30 - 1.5'	E207081-06A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
CONF31 - 1.5'	E207081-07A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
CONF32 - 1.5'	E207081-08A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
CONF33 - 1.5'	E207081-09A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
CONF34 -1.5'	E207081-10A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
CONF35 - 1.5'	E207081-11A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
CONF36 - 1.5'	E207081-12A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
CONF37 - 1.5'	E207081-13A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
CONF38 - 1.5'	E207081-14A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
CONF39 - 1'	E207081-15A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
CONF40 - 4.5'	E207081-16A	Soil	07/15/22	07/18/22	Glass Jar, 4 oz.
CONF41 - 5'	E207081-17A	Soil	07/15/22	07/18/22	Glass Jar, 4 oz.
CONF42 - 5'	E207081-18A	Soil	07/15/22	07/18/22	Glass Jar, 4 oz.
CONF43 - 2.5'	E207081-19A	Soil	07/15/22	07/18/22	Glass Jar, 4 oz.
CONF44 - 2'	E207081-20A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
CONF45 - 2'	E207081-21A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.
CONF46Wall5'	E207081-22A	Soil	07/14/22	07/18/22	Glass Jar, 4 oz.



Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 1 05.07.22 Spill1224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo7/19/2022 5:01:15PM

### CONF25 - 1.5'

		1207001-01					
Analyte	Result	Reporting Limit		lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	•		Batch: 2229094
Benzene	ND	0.0250		1	07/15/22	07/18/22	Batch: 2227074
Ethylbenzene	ND ND	0.0250		1	07/15/22	07/18/22	
Toluene	ND	0.0250		1	07/15/22	07/18/22	
o-Xylene	ND	0.0250		1	07/15/22	07/18/22	
p,m-Xylene	ND	0.0500		1	07/15/22	07/18/22	
Total Xylenes	ND	0.0250		1	07/15/22	07/18/22	
Surrogate: Bromofluorobenzene		94.6 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4		110 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8		92.4 %	70-130		07/15/22	07/18/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2229094
Gasoline Range Organics (C6-C10)	ND	20.0		1	07/15/22	07/18/22	
Surrogate: Bromofluorobenzene		94.6 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4		110 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8		92.4 %	70-130		07/15/22	07/18/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	JL		Batch: 2230009
Diesel Range Organics (C10-C28)	ND	25.0		1	07/18/22	07/18/22	
Oil Range Organics (C28-C36)	ND	50.0		1	07/18/22	07/18/22	
Surrogate: n-Nonane		82.3 %	50-200		07/18/22	07/18/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	KL		Batch: 2230012
Chloride	24.5	20.0		1	07/18/22	07/18/22	
Cilionae	21.0	20.0					



Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 1 05.07.22 Spill1224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo7/19/2022 5:01:15PM

#### CONF26 - 1.5'

		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2229094
Benzene	ND	0.0250	1		07/15/22	07/18/22	
Ethylbenzene	ND	0.0250	1		07/15/22	07/18/22	
Toluene	ND	0.0250	1		07/15/22	07/18/22	
o-Xylene	ND	0.0250	1		07/15/22	07/18/22	
p,m-Xylene	ND	0.0500	1		07/15/22	07/18/22	
Total Xylenes	ND	0.0250	1		07/15/22	07/18/22	
Surrogate: Bromofluorobenzene	·	94.6 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4		108 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8		91.9 %	70-130		07/15/22	07/18/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2229094
Gasoline Range Organics (C6-C10)	ND	20.0	1		07/15/22	07/18/22	
Surrogate: Bromofluorobenzene		94.6 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4		108 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8		91.9 %	70-130		07/15/22	07/18/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	JL		Batch: 2230009
Diesel Range Organics (C10-C28)	ND	25.0	1		07/18/22	07/18/22	
Oil Range Organics (C28-C36)	ND	50.0	1		07/18/22	07/18/22	
Surrogate: n-Nonane		80.7 %	50-200		07/18/22	07/18/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	KL		Batch: 2230012
	389	20.0			07/18/22	07/18/22	



Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 1 05.07.22 Spill1224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo7/19/2025:01:15PM

#### CONF27 - 1.5'

		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst: I	Y		Batch: 2229094
Benzene	ND	0.0250	1		07/15/22	07/18/22	
Ethylbenzene	ND	0.0250	1		07/15/22	07/18/22	
Toluene	ND	0.0250	1		07/15/22	07/18/22	
o-Xylene	ND	0.0250	1		07/15/22	07/18/22	
p,m-Xylene	ND	0.0500	1		07/15/22	07/18/22	
Total Xylenes	ND	0.0250	1		07/15/22	07/18/22	
Surrogate: Bromofluorobenzene	·	98.4 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8		106 %	70-130		07/15/22	07/18/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: I	Y		Batch: 2229094
Gasoline Range Organics (C6-C10)	ND	20.0	1		07/15/22	07/18/22	
Surrogate: Bromofluorobenzene		98.4 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8		106 %	70-130		07/15/22	07/18/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: J	L		Batch: 2230009
Diesel Range Organics (C10-C28)	ND	25.0	1		07/18/22	07/18/22	
Oil Range Organics (C28-C36)	ND	50.0	1		07/18/22	07/18/22	
Surrogate: n-Nonane		117 %	50-200		07/18/22	07/18/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: k	KL		Batch: 2230012



Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 1 05.07.22 Spill1224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo7/19/2022 5:01:15PM

#### CONF28 - 1.5'

		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	I	Analyst: IY	7		Batch: 2229094
Benzene	ND	0.0250	1		07/15/22	07/18/22	
Ethylbenzene	ND	0.0250	1		07/15/22	07/18/22	
Toluene	ND	0.0250	1		07/15/22	07/18/22	
o-Xylene	ND	0.0250	1		07/15/22	07/18/22	
p,m-Xylene	ND	0.0500	1		07/15/22	07/18/22	
Total Xylenes	ND	0.0250	1		07/15/22	07/18/22	
Surrogate: Bromofluorobenzene		96.0 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4		95.9 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8		104 %	70-130		07/15/22	07/18/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: IY	7		Batch: 2229094
Gasoline Range Organics (C6-C10)	ND	20.0	1		07/15/22	07/18/22	
Surrogate: Bromofluorobenzene		96.0 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4		95.9 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8		104 %	70-130		07/15/22	07/18/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	ı	Analyst: JI			Batch: 2230009
Diesel Range Organics (C10-C28)	ND	25.0	1		07/18/22	07/18/22	
Oil Range Organics (C28-C36)	ND	50.0	1		07/18/22	07/18/22	
Surrogate: n-Nonane		97.8 %	50-200		07/18/22	07/18/22	
	mg/kg	mg/kg	,	Analyst: K	L		Batch: 2230012
Anions by EPA 300.0/9056A	mg/kg	mg/kg		11101750112			Batem 2250012



Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 1 05.07.22 Spill1224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo7/19/2025:01:15PM

#### CONF29 - 1.5'

		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: IY		Batch: 2229094
Benzene	ND	0.0250		1	07/15/22	07/18/22	
Ethylbenzene	ND	0.0250		1	07/15/22	07/18/22	
Toluene	ND	0.0250		1	07/15/22	07/18/22	
o-Xylene	ND	0.0250		1	07/15/22	07/18/22	
p,m-Xylene	ND	0.0500		1	07/15/22	07/18/22	
Total Xylenes	ND	0.0250		1	07/15/22	07/18/22	
Surrogate: Bromofluorobenzene		98.5 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8		105 %	70-130		07/15/22	07/18/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: IY		Batch: 2229094
Gasoline Range Organics (C6-C10)	ND	20.0		1	07/15/22	07/18/22	
Surrogate: Bromofluorobenzene		98.5 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8		105 %	70-130		07/15/22	07/18/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: ЛL		Batch: 2230009
Diesel Range Organics (C10-C28)	ND	25.0		1	07/18/22	07/18/22	
Oil Range Organics (C28-C36)	ND	50.0		1	07/18/22	07/18/22	
Surrogate: n-Nonane		85.0 %	50-200		07/18/22	07/18/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: KL		Batch: 2230012
Chloride	61.3	20.0		1	07/18/22	07/18/22	

Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 1 05.07.22 Spill1224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo7/19/2022 5:01:15PM

#### CONF30 - 1.5'

		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	I	Analyst: I	Y		Batch: 2229094
Benzene	ND	0.0250	1		07/15/22	07/18/22	
Ethylbenzene	ND	0.0250	1		07/15/22	07/18/22	
Toluene	ND	0.0250	1		07/15/22	07/18/22	
o-Xylene	ND	0.0250	1		07/15/22	07/18/22	
p,m-Xylene	ND	0.0500	1		07/15/22	07/18/22	
Total Xylenes	ND	0.0250	1		07/15/22	07/18/22	
Surrogate: Bromofluorobenzene		97.6 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8		104 %	70-130		07/15/22	07/18/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: I	Y		Batch: 2229094
Gasoline Range Organics (C6-C10)	ND	20.0	1		07/15/22	07/18/22	
Surrogate: Bromofluorobenzene		97.6 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8		104 %	70-130		07/15/22	07/18/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	ı	Analyst: JI	L		Batch: 2230009
Diesel Range Organics (C10-C28)	ND	25.0	1		07/18/22	07/18/22	
Oil Range Organics (C28-C36)	ND	50.0	1		07/18/22	07/18/22	
Surrogate: n-Nonane		119 %	50-200		07/18/22	07/18/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	ı	Analyst: K	L		Batch: 2230012
7 HII OH S D Y E1 77 500:0/ 2030/1							



Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 1 05.07.22 Spill1224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo7/19/2022 5:01:15PM

#### CONF31 - 1.5'

		Reporting					
Analyte	Result	Limit	Dilu	ition	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2229094
Benzene	ND	0.0250	1	1	07/15/22	07/18/22	
Ethylbenzene	ND	0.0250	1	l	07/15/22	07/18/22	
Toluene	ND	0.0250	1	l	07/15/22	07/18/22	
o-Xylene	ND	0.0250	1	l	07/15/22	07/18/22	
p,m-Xylene	ND	0.0500	1	l	07/15/22	07/18/22	
Total Xylenes	ND	0.0250	1	[	07/15/22	07/18/22	
Surrogate: Bromofluorobenzene		98.7 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8		104 %	70-130		07/15/22	07/18/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2229094
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	07/15/22	07/18/22	
Surrogate: Bromofluorobenzene		98.7 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8		104 %	70-130		07/15/22	07/18/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	JL		Batch: 2230009
Diesel Range Organics (C10-C28)	ND	25.0	1	1	07/18/22	07/18/22	
Oil Range Organics (C28-C36)	ND	50.0	1	[	07/18/22	07/18/22	
Surrogate: n-Nonane		66.3 %	50-200		07/18/22	07/18/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	KL		Batch: 2230012
Chloride	103	20.0	1		07/18/22	07/18/22	



Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 1 05.07.22 Spill1224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo7/19/2025:01:15PM

#### CONF32 - 1.5'

	D. I.	Reporting	D".	··	D 1		N
Analyte	Result	Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	I	Analyst: IY	-		Batch: 2229094
Benzene	ND	0.0250	1		07/15/22	07/18/22	
Ethylbenzene	ND	0.0250	1		07/15/22	07/18/22	
Toluene	ND	0.0250	1		07/15/22	07/18/22	
o-Xylene	ND	0.0250	1		07/15/22	07/18/22	
p,m-Xylene	ND	0.0500	1		07/15/22	07/18/22	
Total Xylenes	ND	0.0250	1		07/15/22	07/18/22	
Surrogate: Bromofluorobenzene		96.6 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8		104 %	70-130		07/15/22	07/18/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	I	Analyst: IY	-		Batch: 2229094
Gasoline Range Organics (C6-C10)	ND	20.0	1		07/15/22	07/18/22	
Surrogate: Bromofluorobenzene		96.6 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8		104 %	70-130		07/15/22	07/18/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: JL			Batch: 2230009
Diesel Range Organics (C10-C28)	ND	25.0	1		07/18/22	07/18/22	
Oil Range Organics (C28-C36)	ND	50.0	1		07/18/22	07/18/22	
Surrogate: n-Nonane		77.2 %	50-200		07/18/22	07/18/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: KI	L		Batch: 2230012
Chloride	152	20.0	1		07/18/22	07/18/22	•



Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 1 05.07.22 Spill1224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo7/19/2022 5:01:15PM

#### CONF33 - 1.5'

		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst:	IY		Batch: 2229094
Benzene	ND	0.0250	1		07/15/22	07/18/22	
Ethylbenzene	ND	0.0250	1		07/15/22	07/18/22	
Toluene	ND	0.0250	1		07/15/22	07/18/22	
o-Xylene	ND	0.0250	1		07/15/22	07/18/22	
p,m-Xylene	ND	0.0500	1		07/15/22	07/18/22	
Total Xylenes	ND	0.0250	1		07/15/22	07/18/22	
Surrogate: Bromofluorobenzene		98.4 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8		104 %	70-130		07/15/22	07/18/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst:	IY		Batch: 2229094
Gasoline Range Organics (C6-C10)	ND	20.0	1		07/15/22	07/18/22	
Surrogate: Bromofluorobenzene		98.4 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8		104 %	70-130		07/15/22	07/18/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst:	JL		Batch: 2230009
Diesel Range Organics (C10-C28)	ND	25.0	1		07/18/22	07/18/22	
Oil Range Organics (C28-C36)	ND	50.0	1		07/18/22	07/18/22	
Surrogate: n-Nonane		106 %	50-200		07/18/22	07/18/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst:	KL		Batch: 2230012
Chloride	47.4	20.0	1		07/18/22	07/18/22	<del></del>



Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 1 05.07.22 Spill1224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo7/19/2025:01:15PM

#### CONF34 -1.5'

		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2229094
Benzene	ND	0.0250	1		07/15/22	07/18/22	
Ethylbenzene	ND	0.0250	1		07/15/22	07/18/22	
Toluene	ND	0.0250	1		07/15/22	07/18/22	
o-Xylene	ND	0.0250	1		07/15/22	07/18/22	
p,m-Xylene	ND	0.0500	1		07/15/22	07/18/22	
Total Xylenes	ND	0.0250	1	l	07/15/22	07/18/22	
Surrogate: Bromofluorobenzene		96.7 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4		99.7 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8		104 %	70-130		07/15/22	07/18/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	٠	Analyst:	IY		Batch: 2229094
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	07/15/22	07/18/22	
Surrogate: Bromofluorobenzene		96.7 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4		99.7 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8		104 %	70-130		07/15/22	07/18/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	JL		Batch: 2230009
Diesel Range Organics (C10-C28)	ND	25.0	1		07/18/22	07/18/22	
Oil Range Organics (C28-C36)	ND	50.0	1		07/18/22	07/18/22	
Surrogate: n-Nonane		114 %	50-200		07/18/22	07/18/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	KL		Batch: 2230012



Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 1 05.07.22 Spill1224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo7/19/2025:01:15PM

#### CONF35 - 1.5'

		Reporting					
Analyte	Result	Limit	Dilu	ition	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2229094
Benzene	ND	0.0250	1	l	07/15/22	07/18/22	
Ethylbenzene	ND	0.0250	1	l	07/15/22	07/18/22	
Toluene	ND	0.0250	1	l	07/15/22	07/18/22	
o-Xylene	ND	0.0250	1	l	07/15/22	07/18/22	
p,m-Xylene	ND	0.0500	1	l	07/15/22	07/18/22	
Total Xylenes	ND	0.0250	1	l	07/15/22	07/18/22	
Surrogate: Bromofluorobenzene		100 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8		106 %	70-130		07/15/22	07/18/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	-	Analyst:	IY		Batch: 2229094
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	07/15/22	07/18/22	
Surrogate: Bromofluorobenzene		100 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8		106 %	70-130		07/15/22	07/18/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	JL		Batch: 2230009
Diesel Range Organics (C10-C28)	ND	25.0	1		07/18/22	07/18/22	
Oil Range Organics (C28-C36)	ND	50.0	1	l	07/18/22	07/18/22	
Surrogate: n-Nonane		69.1 %	50-200		07/18/22	07/18/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	KL		Batch: 2230012



Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 1 05.07.22 Spill1224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo7/19/2022 5:01:15PM

### CONF36 - 1.5'

		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2229094
Benzene	ND	0.0250	1		07/15/22	07/18/22	
Ethylbenzene	ND	0.0250	1		07/15/22	07/18/22	
Toluene	ND	0.0250	1		07/15/22	07/18/22	
o-Xylene	ND	0.0250	1		07/15/22	07/18/22	
p,m-Xylene	ND	0.0500	1		07/15/22	07/18/22	
Total Xylenes	ND	0.0250	1		07/15/22	07/18/22	
Surrogate: Bromofluorobenzene		98.2 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8		104 %	70-130		07/15/22	07/18/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2229094
Gasoline Range Organics (C6-C10)	ND	20.0	1		07/15/22	07/18/22	
Surrogate: Bromofluorobenzene		98.2 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8		104 %	70-130		07/15/22	07/18/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	Л		Batch: 2230009
Diesel Range Organics (C10-C28)	ND	25.0	1		07/18/22	07/18/22	
Oil Range Organics (C28-C36)	ND	50.0	1		07/18/22	07/18/22	
Surrogate: n-Nonane		78.2 %	50-200		07/18/22	07/18/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	KL		Batch: 2230012
· · · · · · · · · · · · · · · · · · ·	141	100	5		07/18/22	07/18/22	



Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 1 05.07.22 Spill1224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo7/19/2022 5:01:15PM

#### CONF37 - 1.5'

		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: IY		Batch: 2229094
Benzene	ND	0.0250		1	07/15/22	07/18/22	
Ethylbenzene	ND	0.0250		1	07/15/22	07/18/22	
Toluene	ND	0.0250		1	07/15/22	07/18/22	
o-Xylene	ND	0.0250		1	07/15/22	07/18/22	
p,m-Xylene	ND	0.0500		1	07/15/22	07/18/22	
Total Xylenes	ND	0.0250		1	07/15/22	07/18/22	
Surrogate: Bromofluorobenzene		94.5 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4		108 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8		91.3 %	70-130		07/15/22	07/18/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: IY		Batch: 2229094
Gasoline Range Organics (C6-C10)	ND	20.0		1	07/15/22	07/18/22	
Surrogate: Bromofluorobenzene		94.5 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4		108 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8		91.3 %	70-130		07/15/22	07/18/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: JL		Batch: 2230009
Diesel Range Organics (C10-C28)	ND	25.0		1	07/18/22	07/18/22	
Oil Range Organics (C28-C36)	ND	50.0		1	07/18/22	07/18/22	
Surrogate: n-Nonane		71.8 %	50-200		07/18/22	07/18/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: KL		Batch: 2230012
· · · · · · · · · · · · · · · · · · ·	376	20.0		1	07/18/22	07/18/22	



Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 1 05.07.22 Spill1224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo7/19/2022 5:01:15PM

#### CONF38 - 1.5'

		D207001 11					
Analyte	Result	Reporting Limit		ution	Prepared	Analyzed	Notes
	mg/kg	mg/kg		Analyst:	•	1 mary 200	Batch: 2229094
Volatile Organic Compounds by EPA 8260B					07/15/22	07/18/22	Batch. 2229094
Benzene	ND	0.0250		1			
Ethylbenzene	ND	0.0250		1	07/15/22	07/18/22	
Toluene	ND	0.0250		1	07/15/22	07/18/22	
o-Xylene	ND	0.0250		1	07/15/22	07/18/22	
p,m-Xylene	ND	0.0500		1	07/15/22	07/18/22	
Total Xylenes	ND	0.0250		1	07/15/22	07/18/22	
Surrogate: Bromofluorobenzene		95.6 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4		112 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8		91.8 %	70-130		07/15/22	07/18/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2229094
Gasoline Range Organics (C6-C10)	ND	20.0		1	07/15/22	07/18/22	
Surrogate: Bromofluorobenzene		95.6 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4		112 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8		91.8 %	70-130		07/15/22	07/18/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	JL		Batch: 2230009
Diesel Range Organics (C10-C28)	ND	25.0		1	07/18/22	07/18/22	
Oil Range Organics (C28-C36)	ND	50.0		1	07/18/22	07/18/22	
Surrogate: n-Nonane		92.8 %	50-200		07/18/22	07/18/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	KL		Batch: 2230012
Chloride	481	20.0		1	07/18/22	07/18/22	



Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 1 05.07.22 Spill1224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo7/19/2022 5:01:15PM

#### CONF39 - 1'

		Reporting					
Analyte	Result	Limit	Dilu	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2229094
Benzene	ND	0.0250		1	07/15/22	07/18/22	
Ethylbenzene	ND	0.0250		1	07/15/22	07/18/22	
Toluene	ND	0.0250		1	07/15/22	07/18/22	
o-Xylene	ND	0.0250		1	07/15/22	07/18/22	
p,m-Xylene	ND	0.0500		1	07/15/22	07/18/22	
Total Xylenes	ND	0.0250		1	07/15/22	07/18/22	
Surrogate: Bromofluorobenzene		95.3 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4		111 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8		93.2 %	70-130		07/15/22	07/18/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2229094
Gasoline Range Organics (C6-C10)	ND	20.0	:	1	07/15/22	07/18/22	
Surrogate: Bromofluorobenzene		95.3 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4		111 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8		93.2 %	70-130		07/15/22	07/18/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	JL		Batch: 2230009
Diesel Range Organics (C10-C28)	ND	25.0		1	07/18/22	07/18/22	
Oil Range Organics (C28-C36)	ND	50.0	:	1	07/18/22	07/18/22	
Surrogate: n-Nonane		82.8 %	50-200	·	07/18/22	07/18/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	KL		Batch: 2230012
Chloride	285	20.0		1	07/18/22	07/18/22	



Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 1 05.07.22 Spill1224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo7/19/2022 5:01:15PM

#### CONF40 - 4.5'

	D 1	Reporting				N.
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Ar	nalyst: IY		Batch: 2229094
Benzene	ND	0.0250	1	07/15/22	07/18/22	
Ethylbenzene	ND	0.0250	1	07/15/22	07/18/22	
Toluene	ND	0.0250	1	07/15/22	07/18/22	
o-Xylene	ND	0.0250	1	07/15/22	07/18/22	
p,m-Xylene	ND	0.0500	1	07/15/22	07/18/22	
Total Xylenes	ND	0.0250	1	07/15/22	07/18/22	
Surrogate: Bromofluorobenzene		94.6 %	70-130	07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4		112 %	70-130	07/15/22	07/18/22	
Surrogate: Toluene-d8		93.6 %	70-130	07/15/22	07/18/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ar	nalyst: IY		Batch: 2229094
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/22	07/18/22	
Surrogate: Bromofluorobenzene		94.6 %	70-130	07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4		112 %	70-130	07/15/22	07/18/22	
Surrogate: Toluene-d8		93.6 %	70-130	07/15/22	07/18/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ar	nalyst: JL		Batch: 2230009
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/22	07/18/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/22	07/18/22	
Surrogate: n-Nonane		85.5 %	50-200	07/18/22	07/18/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ar	nalyst: KL		Batch: 2230012
Chloride	587	200	10	07/18/22	07/18/22	



Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 1 05.07.22 Spill1224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo7/19/2022 5:01:15PM

### CONF41 - 5'

		E207081-17					
		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2229094
Benzene	ND	0.0250	1	1	07/15/22	07/18/22	
Ethylbenzene	ND	0.0250	1	1	07/15/22	07/18/22	
Toluene	ND	0.0250	1	1	07/15/22	07/18/22	
o-Xylene	ND	0.0250	1	1	07/15/22	07/18/22	
p,m-Xylene	ND	0.0500	1	1	07/15/22	07/18/22	
Total Xylenes	ND	0.0250	1	1	07/15/22	07/18/22	
Surrogate: Bromofluorobenzene		97.6 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4		109 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8		92.5 %	70-130		07/15/22	07/18/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2229094
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	07/15/22	07/18/22	
Surrogate: Bromofluorobenzene		97.6 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4		109 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8		92.5 %	70-130		07/15/22	07/18/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	JL		Batch: 2230009
Diesel Range Organics (C10-C28)	ND	25.0	1	1	07/18/22	07/18/22	
Oil Range Organics (C28-C36)	ND	50.0	1	1	07/18/22	07/18/22	
Surrogate: n-Nonane		84.0 %	50-200		07/18/22	07/18/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	KL		Batch: 2230012

200

10

07/18/22

07/18/22

532



Chloride

Surrogate: n-Nonane

Chloride

Anions by EPA 300.0/9056A

### Sample Data

Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 1 05.07.22 Spill1224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo7/19/2022 5:01:15PM

### CONF42 - 5' E207081-18

#### Reporting Analyte Limit Dilution Analyzed Result Prepared Notes Analyst: IY Batch: 2229094 mg/kg mg/kg Volatile Organic Compounds by EPA 8260B 07/15/22 07/18/22 ND 0.0250 Benzene 07/18/22 1 07/15/22 Ethylbenzene ND 0.0250 ND 0.0250 1 07/15/22 07/18/22 Toluene 1 07/15/22 07/18/22 o-Xylene ND 0.0250 07/15/22 07/18/22 ND 0.0500 1 p,m-Xylene 07/15/22 07/18/22 1 Total Xylenes ND 0.0250 07/18/22 07/15/22 Surrogate: Bromofluorobenzene 96.4 % 70-130 07/18/22 Surrogate: 1,2-Dichloroethane-d4 115 % 70-130 07/15/22 Surrogate: Toluene-d8 93.2 % 70-130 07/15/22 07/18/22 Nonhalogenated Organics by EPA 8015D - GRO mg/kg mg/kg Analyst: IY Batch: 2229094 ND 1 07/15/22 07/18/22 20.0 Gasoline Range Organics (C6-C10) Surrogate: Bromofluorobenzene 96.4 % 07/15/22 07/18/22 70-130 07/15/22 07/18/22 Surrogate: 1,2-Dichloroethane-d4 115 % 70-130 Surrogate: Toluene-d8 07/15/22 07/18/22 93.2 % 70-130 mg/kg Analyst: JL Batch: 2230009 mg/kg Nonhalogenated Organics by EPA 8015D - DRO/ORO 07/18/22 07/18/22 ND 25.0 1 Diesel Range Organics (C10-C28) ND 50.0 1 07/18/22 07/18/22 Oil Range Organics (C28-C36)

82.9 %

mg/kg

200

mg/kg

629

50-200

07/18/22

07/18/22

Analyst: KL

10

07/18/22

07/18/22

Batch: 2230012

Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 1 05.07.22 Spill1224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo7/19/2022 5:01:15PM

#### CONF43 - 2.5'

		Reporting					
Analyte	Result	Limit	Diluti	ion P	repared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: IY			Batch: 2229094
Benzene	ND	0.0250	1	0	7/15/22	07/18/22	
Ethylbenzene	ND	0.0250	1	0	7/15/22	07/18/22	
Toluene	ND	0.0250	1	0	7/15/22	07/18/22	
o-Xylene	ND	0.0250	1	0	7/15/22	07/18/22	
p,m-Xylene	ND	0.0500	1	0	7/15/22	07/18/22	
Total Xylenes	ND	0.0250	1	0	7/15/22	07/18/22	
Surrogate: Bromofluorobenzene	·	95.9 %	70-130	0	7/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4		115 %	70-130	0	7/15/22	07/18/22	
Surrogate: Toluene-d8		92.1 %	70-130	0	7/15/22	07/18/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	А	Analyst: IY			Batch: 2229094
Gasoline Range Organics (C6-C10)	ND	20.0	1	0	7/15/22	07/18/22	
Surrogate: Bromofluorobenzene		95.9 %	70-130	0	7/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4		115 %	70-130	0	7/15/22	07/18/22	
Surrogate: Toluene-d8		92.1 %	70-130	0	7/15/22	07/18/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: JL			Batch: 2230009
Diesel Range Organics (C10-C28)	ND	25.0	1	0	7/18/22	07/18/22	
Oil Range Organics (C28-C36)	ND	50.0	1	0	7/18/22	07/18/22	
Surrogate: n-Nonane		71.3 %	50-200	0	7/18/22	07/18/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: KL			Batch: 2230012
· -	653	200	10		7/18/22	07/18/22	



Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 1 05.07.22 Spill1224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo7/19/2022 5:01:15PM

### CONF44 - 2'

		E207081-20					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2229094
Benzene	ND	0.0250		1	07/15/22	07/18/22	
Ethylbenzene	ND	0.0250		1	07/15/22	07/18/22	
Toluene	ND	0.0250		1	07/15/22	07/18/22	
o-Xylene	ND	0.0250		1	07/15/22	07/18/22	
p,m-Xylene	ND	0.0500		1	07/15/22	07/18/22	
Total Xylenes	ND	0.0250		1	07/15/22	07/18/22	
Surrogate: Bromofluorobenzene		93.1 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4		114 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8		92.1 %	70-130		07/15/22	07/18/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2229094
Gasoline Range Organics (C6-C10)	ND	20.0		1	07/15/22	07/18/22	
Surrogate: Bromofluorobenzene		93.1 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4		114 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8		92.1 %	70-130		07/15/22	07/18/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	JL		Batch: 2230009
Diesel Range Organics (C10-C28)	ND	25.0	·	1	07/18/22	07/18/22	
Oil Range Organics (C28-C36)	ND	50.0		1	07/18/22	07/18/22	
Surrogate: n-Nonane		84.9 %	50-200		07/18/22	07/18/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	KL		Batch: 2230012

200

10

07/18/22

07/18/22

248



Chloride

Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 1 05.07.22 Spill1224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo7/19/2022 5:01:15PM

### CONF45 - 2'

		E207081-21				
		Reporting				
Analyte	Result	Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: IY		Batch: 2229097
Benzene	ND	0.0250	1	07/15/22	07/18/22	
Ethylbenzene	ND	0.0250	1	07/15/22	07/18/22	
Toluene	ND	0.0250	1	07/15/22	07/18/22	
o-Xylene	ND	0.0250	1	07/15/22	07/18/22	
p,m-Xylene	ND	0.0500	1	07/15/22	07/18/22	
Total Xylenes	ND	0.0250	1	07/15/22	07/18/22	
Surrogate: Bromofluorobenzene		95.9 %	70-130	07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4		113 %	70-130	07/15/22	07/18/22	
Surrogate: Toluene-d8		91.5 %	70-130	07/15/22	07/18/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: IY		Batch: 2229097
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/22	07/18/22	
Surrogate: Bromofluorobenzene		95.9 %	70-130	07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4		113 %	70-130	07/15/22	07/18/22	
Surrogate: Toluene-d8		91.5 %	70-130	07/15/22	07/18/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: JL		Batch: 2230004
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/22	07/18/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/22	07/18/22	
Surrogate: n-Nonane		95.5 %	50-200	07/18/22	07/18/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: KL		Batch: 2230005
-						

200

10

07/18/22

07/18/22

214



Chloride

Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 1 05.07.22 Spill1224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo7/19/2022 5:01:15PM

### CONF46Wall - .5'

		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2229097
Benzene	ND	0.0250	1	1	07/15/22	07/18/22	
Ethylbenzene	ND	0.0250	1	1	07/15/22	07/18/22	
Toluene	ND	0.0250	1	1	07/15/22	07/18/22	
o-Xylene	ND	0.0250	1	1	07/15/22	07/18/22	
p,m-Xylene	ND	0.0500	1	1	07/15/22	07/18/22	
Total Xylenes	ND	0.0250	1	1	07/15/22	07/18/22	
Surrogate: Bromofluorobenzene		99.0 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4		99.2 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8		106 %	70-130		07/15/22	07/18/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2229097
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	07/15/22	07/18/22	
Surrogate: Bromofluorobenzene		99.0 %	70-130		07/15/22	07/18/22	
Surrogate: 1,2-Dichloroethane-d4		99.2 %	70-130		07/15/22	07/18/22	
Surrogate: Toluene-d8		106 %	70-130		07/15/22	07/18/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: .	JL		Batch: 2230004
Diesel Range Organics (C10-C28)	ND	25.0	1	1	07/18/22	07/18/22	
Oil Range Organics (C28-C36)	ND	50.0	1	1	07/18/22	07/18/22	
Surrogate: n-Nonane		81.3 %	50-200		07/18/22	07/18/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	KL		Batch: 2230013
Chloride	42.6	20.0	1	1	07/18/22	07/18/22	



Kaiser Francis Oil Company Project Name: Red Hills Facility Pad 1 05.07.22 Spill Reported:

1224 Standpipe Rd Project Number: 21022-0001

Carlsbad NM, 88220 Project Manager: Ashley Giovengo 7/19/2022 5:01:15PM

Result	Carlsbad NM, 88220		Project Manage	r: As	shley Gioveng	go			7/1	9/2022 5:01:15PM
Result   Limit   Level   Result   Result   Rec   Limits   RPD   Limit   Notes   Rec   Limits   RPD   Limit   Notes   Rec   Limits   RPD   Limit   Notes   Rec		Vo	olatile Organ	ic Compo	unds by EI	PA 82601	В			Analyst: IY
Sank (2229094-BLK1)   Prepared: 07/15/22   Analyzed: 07/18/22	Analyte	Result		-		Rec		RPD		
ND		mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
ND	Blank (2229094-BLK1)							Prepared: 0'	7/15/22 Anal	yzed: 07/18/22
ND	Benzene		0.0250							
ND	Ethylbenzene	ND	0.0250							
ND   0.0500   ND   0.0250	Toluene									
ND   0.0250	o-Xylene									
103   70-130   103   70-130   103   70-130   103   70-130   103   70-130   103   70-130   103   103   70-130   103   1	p,m-Xylene									
10	Total Xylenes	ND	0.0250							
National State   Nati	Surrogate: Bromofluorobenzene	0.515		0.500		103	70-130			
Prepared: 07/15/22   Analyzed: 07/18/22   Analyze	Surrogate: 1,2-Dichloroethane-d4	0.544		0.500		109	70-130			
Senzene   2.39   0.0250   2.50   95.5   70-130	Surrogate: Toluene-d8	0.465		0.500		92.9	70-130			
2.39	LCS (2229094-BS1)							Prepared: 0'	7/15/22 Anal	yzed: 07/18/22
Soluene   2.36   0.0250   2.50   94.6   70-130	Benzene	2.39	0.0250	2.50		95.5	70-130			
-Xylene 2.48 0.0250 2.50 99.2 70-130	Ethylbenzene	2.39	0.0250	2.50		95.7	70-130			
## Ayslene	Toluene	2.36	0.0250	2.50		94.6	70-130			
Total Xylenes   Total Xylene   Total Xylenes   Total Xylenes	o-Xylene	2.48	0.0250	2.50		99.2	70-130			
CCS Dup (2229094-BSD1)   Prepared: 07/15/22   Analyzed: 07/18/22	p,m-Xylene		0.0500	5.00		96.7	70-130			
### 10.534	Total Xylenes	7.31	0.0250	7.50		97.5	70-130			
Autrogate: 1,2-Dichloroethane-d4         0.534         0.500         107         70-130           Autrogate: Toluene-d8         0.487         0.500         97.3         70-130           Autrogate: Toluene-d8         0.487         0.500         97.3         70-130           CCS Dup (2229094-BSD1)         Prepared: 07/15/22 Analyzed: 07/18/22           Senzene         2.48         0.0250         2.50         99.0         70-130         3.62         23           Sthylbenzene         2.43         0.0250         2.50         97.4         70-130         1.70         27           Avylene         2.56         0.0250         2.50         97.0         70-130         3.04         27           Am-Xylene         5.00         0.0500         5.00         99.9         70-130         3.34         27           otal Xylenes         7.55         0.0250         7.50         101         70-130         3.24         27           turogate: Bromofluorobenzene         0.501         0.500         100         70-130         70-130         70-130	Surrogate: Bromofluorobenzene	0.496		0.500		99.1	70-130			
CCS Dup (2229094-BSD1)         Prepared: 07/15/22         Analyzed: 07/18/22           Senzene         2.48         0.0250         2.50         99.0         70-130         3.62         23           Obluene         2.43         0.0250         2.50         97.4         70-130         1.70         27           Avylene         2.43         0.0250         2.50         97.0         70-130         2.57         24           -Xylene         2.56         0.0250         2.50         102         70-130         3.04         27           otal Xylenes         5.00         0.0500         5.00         99.9         70-130         3.34         27           otal Xylenes         7.55         0.0250         7.50         101         70-130         3.24         27           otal Xylenes         0.501         0.500         100         70-130         3.24         27	Surrogate: 1,2-Dichloroethane-d4	0.534		0.500		107	70-130			
Senzene         2.48         0.0250         2.50         99.0         70-130         3.62         23           tithylbenzene         2.43         0.0250         2.50         97.4         70-130         1.70         27           foluene         2.43         0.0250         2.50         97.0         70-130         2.57         24           -Xylene         2.56         0.0250         2.50         102         70-130         3.04         27           ym-Xylene         5.00         0.0500         5.00         99.9         70-130         3.34         27           otal Xylenes         7.55         0.0250         7.50         101         70-130         3.24         27           turrogate: Bromofluorobenzene         0.501         0.500         100         70-130         70-130         70-130	Surrogate: Toluene-d8	0.487		0.500		97.3	70-130			
Sthylbenzene     2.43     0.0250     2.50     97.4     70-130     1.70     27       Soluene     2.43     0.0250     2.50     97.0     70-130     2.57     24       -Xylene     2.56     0.0250     2.50     102     70-130     3.04     27       ,m-Xylene     5.00     0.0500     5.00     99.9     70-130     3.34     27       otal Xylenes     7.55     0.0250     7.50     101     70-130     3.24     27       turrogate: Bromofluorobenzene     0.501     0.500     100     70-130     70-130	LCS Dup (2229094-BSD1)							Prepared: 0'	7/15/22 Anal	yzed: 07/18/22
Sthylbenzene     2.43     0.0250     2.50     97.4     70-130     1.70     27       Soluene     2.43     0.0250     2.50     97.0     70-130     2.57     24       -Xylene     2.56     0.0250     2.50     102     70-130     3.04     27       ,m-Xylene     5.00     0.0500     5.00     99.9     70-130     3.34     27       otal Xylenes     7.55     0.0250     7.50     101     70-130     3.24     27       currogate: Bromofluorobenzene     0.501     0.500     100     70-130     70-130	Benzene	2.48	0.0250	2.50		99.0	70-130	3.62	23	
Foliume     2.43     0.0250     2.50     97.0     70-130     2.57     24       -Xylene     2.56     0.0250     2.50     102     70-130     3.04     27       ,m-Xylene     5.00     0.0500     5.00     99.9     70-130     3.34     27       otal Xylenes     7.55     0.0250     7.50     101     70-130     3.24     27       turrogate: Bromofluorobenzene     0.501     0.500     100     70-130     70-130	Ethylbenzene	2.43		2.50		97.4	70-130	1.70		
-Xylene 2.56 0.0250 2.50 102 70-130 3.04 27 ,m-Xylene 5.00 0.0500 5.00 99.9 70-130 3.34 27 rotal Xylenes 7.55 0.0250 7.50 101 70-130 3.24 27 -turrogate: Bromofluorobenzene 0.501 0.500 100 70-130	Toluene	2.43		2.50		97.0	70-130	2.57	24	
m-Xylene 5.00 0.0500 5.00 99.9 70-130 3.34 27 rotal Xylenes 7.55 0.0250 7.50 101 70-130 3.24 27 surrogate: Bromofluorobenzene 0.501 0.500 100 70-130	o-Xylene	2.56		2.50		102	70-130	3.04	27	
fotal Xylenes         7.55         0.0250         7.50         101         70-130         3.24         27           furrogate: Bromofluorobenzene         0.501         0.500         100         70-130	p,m-Xylene	5.00	0.0500	5.00		99.9	70-130	3.34	27	
	Total Xylenes	7.55	0.0250	7.50		101	70-130	3.24	27	
urrogate: 1,2-Dichloroethane-d4 0.524 0.500 105 70-130	Surrogate: Bromofluorobenzene	0.501		0.500		100	70-130			
	Surrogate: 1,2-Dichloroethane-d4	0.524		0.500		105	70-130			

0.500

70-130



Surrogate: Toluene-d8

0.482

Kaiser Francis Oil Company Project Name: Red Hills Facility Pad 1 05.07.22 Spill Reported:

1224 Standpipe Rd Project Number: 21022-0001

Carlsbad NM, 88220 Project Manager: Ashley Giovengo 7/19/2022 5:01:15PM

Carlsbad NM, 88220		Project Manage	r: As	shley Gioveng	50			7	/19/2022 5:01:15PM
	Vo	olatile Organ	ic Compo	unds by EF	PA 82601	В			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 (2229097-BLK1)							Prepared: 07	7/15/22 An	alyzed: 07/19/22
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
o,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.489		0.500		97.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.539		0.500		108	70-130			
Surrogate: Toluene-d8	0.477		0.500		95.3	70-130			
LCS (2229097-BS1)							Prepared: 07	7/15/22 An	alyzed: 07/19/22
Benzene	2.30	0.0250	2.50		92.0	70-130			
Ethylbenzene	2.42	0.0250	2.50		97.0	70-130			
Toluene	2.37	0.0250	2.50		94.7	70-130			
o-Xylene	2.51	0.0250	2.50		100	70-130			
o,m-Xylene	4.93	0.0500	5.00		98.6	70-130			
Total Xylenes	7.44	0.0250	7.50		99.2	70-130			
Surrogate: Bromofluorobenzene	0.518		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.508		0.500		102	70-130			
Surrogate: Toluene-d8	0.496		0.500		99.1	70-130			
LCS Dup (2229097-BSD1)							Prepared: 07	7/15/22 An	alyzed: 07/19/22
Benzene	2.32	0.0250	2.50		92.8	70-130	0.909	23	
Ethylbenzene	2.41	0.0250	2.50		96.4	70-130	0.579	27	
Toluene	2.35	0.0250	2.50		94.2	70-130	0.551	24	
o-Xylene	2.53	0.0250	2.50		101	70-130	0.615	27	
o,m-Xylene	4.91	0.0500	5.00		98.2	70-130	0.417	27	
Total Xylenes	7.44	0.0250	7.50		99.1	70-130	0.0672	27	
Surrogate: Bromofluorobenzene	0.512		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.506		0.500		101	70-130			

0.500

0.497

70-130



Surrogate: Toluene-d8

Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 1 05.07.22 SpillReported:1224 Standpipe RdProject Number:21022-0001Carlsbad NM, 88220Project Manager:Ashley Giovengo7/19/2022 5:01:15PM

Nonhalogenate	d Organics	by EPA	8015D -	GRO

Anal	

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

Blank (2229094-BLK1)						Prepared: 0'	7/15/22 A	nalyzed: 07/18/22
Gasoline Range Organics (C6-C10)	ND	20.0						
Surrogate: Bromofluorobenzene	0.515		0.500	103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.544		0.500	109	70-130			
Surrogate: Toluene-d8	0.465		0.500	92.9	70-130			
LCS (2229094-BS2)						Prepared: 0	7/15/22 A	nalyzed: 07/18/22
Gasoline Range Organics (C6-C10)	41.3	20.0	50.0	82.7	70-130			
Surrogate: Bromofluorobenzene	0.491		0.500	98.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.511		0.500	102	70-130			
Surrogate: Toluene-d8	0.487		0.500	97.3	70-130			
LCS Dup (2229094-BSD2)						Prepared: 0	7/15/22 A	nalyzed: 07/18/22
Gasoline Range Organics (C6-C10)	44.5	20.0	50.0	89.0	70-130	7.37	20	
Surrogate: Bromofluorobenzene	0.483		0.500	96.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500	99.8	70-130			
Surrogate: Toluene-d8	0.482		0.500	96.3	70-130			



Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 1 05.07.22 SpillReported:1224 Standpipe RdProject Number:21022-0001Carlsbad NM, 88220Project Manager:Ashley Giovengo7/19/2022 5:01:15PM

Nonhalogenated	<b>Organics</b>	by EPA	8015D -	GRO

Analy	yst: I
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Analyte Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes

Blank (2229097-BLK1)						Prepared: 07	7/15/22 Ana	lyzed: 07/19/22
Gasoline Range Organics (C6-C10)	ND	20.0						
Surrogate: Bromofluorobenzene	0.489		0.500	97.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.539		0.500	108	70-130			
Surrogate: Toluene-d8	0.477		0.500	95.3	70-130			
LCS (2229097-BS2)						Prepared: 07	7/15/22 Ana	lyzed: 07/19/22
Gasoline Range Organics (C6-C10)	41.8	20.0	50.0	83.7	70-130			
Surrogate: Bromofluorobenzene	0.500		0.500	100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.515		0.500	103	70-130			
Surrogate: Toluene-d8	0.491		0.500	98.2	70-130			
LCS Dup (2229097-BSD2)						Prepared: 07	7/15/22 Ana	lyzed: 07/19/22
Gasoline Range Organics (C6-C10)	42.7	20.0	50.0	85.3	70-130	1.95	20	
Surrogate: Bromofluorobenzene	0.498		0.500	99.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.506		0.500	101	70-130			
Surrogate: Toluene-d8	0.492		0.500	98.4	70-130			



Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 1 05.07.22 SpillReported:1224 Standpipe RdProject Number:21022-0001Carlsbad NM, 88220Project Manager:Ashley Giovengo7/19/2022 5:01:15PM

Carlsbad NM, 88220		Project Manager	r: As	shley Gioveng	go			7/	19/2022 5:01:15PN		
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 (2230004-BLK1)							Prepared: 0	7/18/22 Ana	lyzed: 07/18/22		
Diesel Range Organics (C10-C28)	ND	25.0									
Dil Range Organics (C28-C36)	ND	50.0									
Surrogate: n-Nonane	50.1		50.0		100	50-200					
LCS (2230004-BS1)							Prepared: 0	7/18/22 Ana	lyzed: 07/18/22		
Diesel Range Organics (C10-C28)	517	25.0	500		103	38-132					
urrogate: n-Nonane	54.2		50.0		108	50-200					
Matrix Spike (2230004-MS1)				Source:	E207080-	04	Prepared: 0	7/18/22 Ana	lyzed: 07/18/22		
Diesel Range Organics (C10-C28)	566	25.0	500	ND	113	38-132					
Surrogate: n-Nonane	57.9		50.0		116	50-200					
Matrix Spike Dup (2230004-MSD1)				Source:	E207080-	04	Prepared: 0	7/18/22 Ana	lyzed: 07/18/22		
Diesel Range Organics (C10-C28)	573	25.0	500	ND	115	38-132	1.29	20			
Gurrogate: n-Nonane	58.2		50.0		116	50-200					



Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 1 05.07.22 SpillReported:1224 Standpipe RdProject Number:21022-0001Carlsbad NM, 88220Project Manager:Ashley Giovengo7/19/20225:01:15PM

Carlsbad NM, 88220		Project Manage	r: As	hley Gioveng	go				7/19/2022 5:01:15PN		
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 (2230009-BLK1)							Prepared: 0	7/18/22 A	nalyzed: 07/18/22		
Diesel Range Organics (C10-C28)	ND	25.0									
Dil Range Organics (C28-C36)	ND	50.0									
urrogate: n-Nonane	45.9		50.0		91.8	50-200					
LCS (2230009-BS1)							Prepared: 0	7/18/22 A	nalyzed: 07/18/22		
Diesel Range Organics (C10-C28)	482	25.0	500		96.3	38-132					
urrogate: n-Nonane	48.9		50.0		97.7	50-200					
Matrix Spike (2230009-MS1)				Source:	E207081-	13	Prepared: 0	7/18/22 A	nalyzed: 07/18/22		
Diesel Range Organics (C10-C28)	490	25.0	500	ND	98.0	38-132					
urrogate: n-Nonane	49.8		50.0		99.5	50-200					
Matrix Spike Dup (2230009-MSD1)				Source:	E207081-	13	Prepared: 0	7/18/22 A	nalyzed: 07/18/22		
Diesel Range Organics (C10-C28)	545	25.0	500	ND	109	38-132	10.6	20			
urrogate: n-Nonane	51.4		50.0		103	50-200					

Chloride

### **QC Summary Data**

Kaiser Francis Oil Company 1224 Standpipe Rd	Project Name: Project Number:	Red Hills Facility Pad 1 05.07.22 Spill 21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	7/19/2022 5:01:15PM

		Anions		Analyst: KL					
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2230005-BLK1)							Prepared: 0	7/18/22 Analy	yzed: 07/18/22
Chloride	ND	20.0							
LCS (2230005-BS1)							Prepared: 0	7/18/22 Analy	yzed: 07/18/22
Chloride	240	20.0	250		96.2	90-110			
Matrix Spike (2230005-MS1)				Source:	E207073-0	)1	Prepared: 0	7/18/22 Analy	yzed: 07/18/22
Chloride	302	20.0	250	56.8	98.1	80-120			
Matrix Spike Dup (2230005-MSD1)				Source:	E207073-0	01	Prepared: 0	7/18/22 Analy	yzed: 07/18/22

250

56.8

80-120

20.0



Analyte

## **QC Summary Data**

Kaiser Francis Oil Company 1224 Standpipe Rd	Project Name: Project Number:	Red Hills Facility Pad 1 05.07.22 Spill 21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	7/19/2022 5:01:15PM

Anions	by	EPA	300.0/9056A
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Anions	by EPA 3	00.0/9056 <i>A</i>	1				Analyst: KL			
Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		]		
a			0.7	0.7	0.7	0./	37	ı		

Result	Limit	Level	Result	Rec	Limits	RPD	Limit	
mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
						Prepared: 0	7/18/22 An	alyzed: 07/19/22
ND	20.0							
						Prepared: 0	7/18/22 An	alyzed: 07/19/22
243	20.0	250		97.2	90-110			
			Source:	E207081-0	01	Prepared: 0	7/18/22 An	alyzed: 07/19/22
272	20.0	250	24.5	99.1	80-120			
			Source:	E207081-0	01	Prepared: 0	7/18/22 An	alyzed: 07/19/22
279	20.0	250	24.5	102	80-120	2.36	20	-
	mg/kg ND 243	ND   20.0     243   20.0     272   20.0	Result mg/kg         Limit mg/kg         Level mg/kg           ND         20.0           243         20.0         250           272         20.0         250	Result mg/kg         Limit mg/kg         Level mg/kg         Result mg/kg           ND         20.0           243         20.0         250           Source:           272         20.0         250         24.5           Source:	Result mg/kg         Limit Level mg/kg         Result mg/kg         Rec mg/kg         Rec mg/kg         Rec mg/kg         %           ND         20.0         250         97.2         Source: E207081-12           272         20.0         250         24.5         99.1           Source: E207081-1           Source: E207081-1	Result mg/kg         Limit Level mg/kg         Result mg/kg         Rec mg/kg         Limits mg/kg         Rec mg/kg         Limits mg/kg         %         %           ND         20.0         250         97.2         90-110           Source: E207081-01           272         20.0         250         24.5         99.1         80-120           Source: E207081-01	Result mg/kg         Limit mg/kg         Level mg/kg         Result mg/kg         Rec mg/kg         Limits kpD         RPD           ND 20.0         Prepared: 0           243         20.0         250         97.2         90-110           Source: E207081-01         Prepared: 0           272         20.0         250         24.5         99.1         80-120           Source: E207081-01         Prepared: 0	Result mg/kg         Limit mg/kg         Level mg/kg         Result mg/kg         Rec mg/kg         Limits kg         RPD kg         Limit kg         RPD kg

Matrix Spike Dup (2230013-MSD1)

Chloride

### **QC Summary Data**

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220		Project Name: Project Number: Project Manager	2	Red Hills Facili 21022-0001 Ashley Gioveng	•	5.07.22 S <sub>I</sub>	oill		<b>Reported:</b> 7/19/2022 5:01:15PM
		Anions	by EPA	300.0/9056 <i>A</i>	١				Analyst: KL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
Blank (2230013-BLK1)	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	% 7/18/22 A	Notes nalyzed: 07/18/22
Chloride Chloride	ND	20.0					Trepared. 0	//16/22 AI	naryzcu. 07/16/22
LCS (2230013-BS1)							Prepared: 0	7/18/22 Aı	nalyzed: 07/18/22
Chloride	259	20.0	250		103	90-110			
Matrix Spike (2230013-MS1)				Source:	E207082-	01	Prepared: 0	7/18/22 Aı	nalyzed: 07/18/22
Chloride	287	20.0	250	44.1	97.0	80-120			

250

20.0

Source: E207082-01

95.4

80-120

1.38

#### 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: 07/18/22 Analyzed: 07/18/22

20

### **Definitions and Notes**

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	07/19/22 17:01

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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



Chain of Custody

PO: 36785

Page 1 of 3

Client: K	aiser Fran	cis Oil Co	)				Bill To			<u>4</u>	La	b Us	e Only			i		TA	\T	EPA	Pro	gram
Project: Red Hills Facility Pad 1 05.07.22 Spill						Attention: Wesco			Lab WO# Job Number				1D	2D		Standar			SDWA			
Project Manager: Ashley Giovengo						Address: 1224 Sta			Lab W0# E 200081				20	A	<u>-0001</u>	<b> </b>					丁	
Address: 1224 Standpipe Rd						City, State, Zip: Carlsbad, NM 88220						Analysis and Method			d				a,914 6		RCRA	
City, State, Zip: Carlsbad, NM 88220					_[	Phone: 505-382-1													S. Vals			
	<u>505-382-1</u>					Email: ashley.giov	<u>rengo@wescomin</u>	ic.com	[ 왕 ]	21.										State		
_	shley.giov	engo@w	<u>escominc</u>	.com					&     &	)4 8(	12	ا ۾	اه	0.0		Σ	İ		NM (	O UT A	\Z   1	X
Report du	ue by:					<u> </u>		• 400	[ g	8	y 8021	826	601	e 30					×			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID			· • · · · · · · · · · · · · · · · · · ·	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	втех by	VOC by 8260	Metals 6010	Chloride 300.0		ВСБОС	ВСБОС			Remai	ks	
1340	7/14	Soil	1 Jar			CONF25 -	5									х						
1345	7/44	Soil	1 Jar			CONF26 - 1.	5	2								х						
1348	7/14	Soil	1 Jar			CONF27 - /	·	3								х						
1356	7/14	Soil	1 Jar			CONF28 - 1,	5	4								х						
1403	7/14	Soil	1 Jar			CONF29 - 1	5'	5								х						
1408	7/14	Soil	1 Jar			CONF30 - ).	5'	6								х						
925	7/14	Soil	1 Jar			CONF31 - (,	5 "	17								х						
931	7/14	Soil	1 Jar			CONF32 - 1	51	8								х						
938	7/14	Soil	1 Jar			CONF33 - 1.	3.	9								x						
944	7/14	Soil	1 Jar			CONF34 - \.	5′	10								x						
Addition	al Instruc	tions: K	ept on ic	e, Please CO	C: cole.	burton@wescomin	c.com, shar.harve	ester@wes	comi	nc.co	m, a	shle	y.giov	eng	o@wes	comii	nc.co	m				
				city of this samp		aware that tartpering with o	_ /1	ling the sample	locatio	on,									eived on ice the °C on subsequer		npled o	r received
Relinquishe	Bu		Date 7/	15/22	ime 13	Recover by: (Sig	nature)	Date7_[	5a	Time	1.3	D	Recei	ved	on ice:	L CY	ab Us D' N	e Onl	y .			
Relinquishe	X Wale	dW	Date	-15a7	ime , (4	Received by Sig	(natura)	7/18/2	2	Time 10:	05	_	T1			T2	17,430 12,4 11,14		<b>13</b> :			
Relinquishe	ed by: (Signa	ture)	Date	Ti	imě	Received by: (Sig	nature)	Date		Time			AVG 7	em	。。∠ □°C ∠	1						
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other								AVG Temp °C 4  Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA										<u> sadi ara (19. ap</u>				
						ss other arrangements a		samples will	be reti	urned	to clie	nt or	dispose	d of	at the clie	ent exp	ense.	The re	eport for the	analysis of t	he abo	ove
samples is	applicable o	nly to those	a samples re	eceived by the	laborate	ory with this COC. The lia	bility of the laborator	y is limited to	the a	mount	paid (	for on	the re	port.						·		



2	2_of_3	Receive
Pr	ogram SDWA	eived by OCD:
	RCRA	D: 9/9/
<u>z</u>	ТХ	9/9/2022 1::
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		M

Client: K	aiser Fran	cis Oil Co	)		72.	î. V		Bill To			49.00	· »La	ıb Us	e Onl	y.				TA	AT	EPA I	rogram
Project: Red Hills Facility Pad 1 05.07.22 Spill Project Manager: Ashley Gjoyengo						ntion: We		. <u></u>	Lab WO#			•	Job)/	lum	oer		2D	3D	Standard		SDWA	
Project Manager: Ashley Giovengo					Address: 1224 Standpipe Rd			E20708 21022														
Address: 1224 Standpipe Rd						City, State, Zip: Carlsbad, NM 88220			<u> </u>				Analysis and Method								RCRA	
	City, State, Zip: Carlsbad, NM 88220 Phone: 505-382-1211					Phone: 505-382-1211			4													
						<u> Emai</u>	l: ashley.g	iovengo@wesco	ominc.com	8015	8015						-				State	
	shley.giov	engo@w	escomino	com						<sup>8</sup>	A	8021	9	ا و	300.0		Σ			NM C	O UT AZ	TX
Report d			T	<del></del>						욽	&	98	y 82	9 600	de 3			ř		<u>  ×  </u> _		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID					Lab Number	DRO/ORO by	GRO/DRO by	втех by	VOC by 8260	Metals 6010	Chloride		ВСБОС	Верос			Remark	;
948	7/14	Soil	1 Jar				CONF35 -		11								×					
748	7/14	Soil	1 Jar			(	CONF36 -	1.5/	12								х					
958	7/14	Soil	1 Jar			(	CONF37 -	1.5'	13								х					
1001	7/14	Soil	1 Jar			(	ONF38 -	1.5'	14								х					
1 505	7/14	Soil	1 Jar			(	CONF39 -	1	15								х					
1213	7/15	Soil	1 Jar			(	CONF40 -	L1.5	10								х					
1110	7/15	Soil	1 Jar			(	CONF41 -	5'	17								х					
1039	7/15	Soil	1 Jar			(	CONF42 -	ς′	18								х					
901	7/15	Soil	1 Jar			(	CONF43 - 2	2,5	19								х					
1618	7/14	Soil	1 Jar		_	(	CONF44 -	2'	20								х					
Addition	al Instruc	tions: K	ept on ic	e, Please	CC: cole	.burtor	n@wescom	ninc.com, shar.h	harvester@wes	comi	nc.co	om, a	shle	y.gio	/eng	o@wes	comi	nc.co	m	—! <u> </u>		
									· · · · · · · · · · · · · · · · · · ·													
1				icity of this sar nay be ground			11	vith or intentionally mi	islabelling the sample	locatio	on,									eived on ice the d °C on subsequent		led or received
Relinguish	ed by (Sign	ture)	Date 7/	1822	Time 13		Received by	(Signature)	Date /- /	5 2	Time	:4	5	Rece	ived	on ice:		ab U	se On	ly		
Religiquish	ed lay: (Sign:	iture)	Date 7-	15-22	Time		Received by	(Signature)	Date / 7/18/2	2	Time	08		T1:			T2			Т2		
	ed by:/(Sign:	iture)	Date	•	Time		Received by:	(Signature)	Date		Time			Δνζο	Tom	n°C 4	7	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
Sample Mat	rix: S - Soil Sr	I - Solid. Sø -	Sludge A - A	aueaus O - O	ther			<del></del>	Containe	AVG Temp®C.												
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardou							rdous samples will	Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA														
								e liability of the labo											ine ii	cport for the c	nanyaia on tiit	above

Client: K	aiser Fran	cis Oil Co	)			B	Bill To			7 T.S. T.S.	La	b Us	e Onl	ý	rilaini ey	4.		TA	\T	EPA	Program
Project:	Red Hills	Facility Pa	ad 1 05.0	7.22 Spill		Attention: Wescom			Lab \	NÓ#		50.54	Job N	lum	běr	1D	2D	3D	Standard	CWA	
	<u> lanager:</u>				77 . 1468	Address: 1224 Stand			Εá	207	08		210	P.F.	-000/						
	1224 Sta				100000000000000000000000000000000000000	City, State, Zip:_Carls		_					Analys	sis ar	nd Meth	od					RCRA
	e, Zip: Ca		M 88220			Phone: 505-382-121				Ì											
	<u>05-382-1</u>				[	Email: ashley.gioven	ngo@wescominc.	com	55	8015				- 1						State	
	shley.giov	engo@w	escomine	c.com					by 8	ا ۾	12	9	او	8		Σ			NM C	A TU C	Z TX
Report d	ue by:		<del></del>	<del></del>				Vo. 1	8	욡	8	y 82	<u>8</u>	Je 3(		- 1	ř		×		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID				Lab Number	DRO/ORO by 8015	GRO/DRO by	втех by 8021	VOC by 8260	Metals 6010	Chloride 300.0		ВСБОС	BGDOC			Remari	ss .
1548	7/14	soil	1 Jar	501	VF 49	5 - 2'	,	21								х					
1600	7/14	Soil	1 Jar	Co.	NF41	5 - 2' Swall5	. /	22								х					
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Addition	al Instruc	tions: K	(ept on ic	e, Please (	CC: cole.bı	urton@wescominc.c	com, shar.harvest	er@wes	comi	nc.cc	m, a	shle	y.gio\	/eng	o@we	comi	nc.co	m			
		-		icity of this sar may be ground	-	are that tampering with or in on. Sampled	-	the sample	locatio	n,									eived on ice the di °C on subsequent		pled or received
Relinquishe	ed by: (Sign	ature)	Date 7	119/22	Time 35	Received by: (Silfhat	fµre)	Date 7 - 14	T-0	Timé	41	2	Recei	ived	on ice:		ab U	se On	l <b>y</b>		
Relinquish	ed by: (Sign	ature)	Date 7-	16522	Time 4/16	Received by (Signat	Cht	7/18/2	z	Time	06		т1			T2-		nair.	<b>T3</b>		
Relinquish	ed by: (Sign	ature)	Date		Time	Received by: (Signat	iture)	Date		Time			AVG	Tem	p °C	4		7			
Sample Mat	rix: S - Soil, S	d - Solid, <b>S</b> g -	Sludge, A - A	queous, O - O	ther			Container	Туре	g - g	lass, p	<b>p</b> - po	oly/pla	stic,	ag - am	oer gla	ss, v	VOA		_	
						other arrangements are										ent ex	ense.	The r	eport for the a	nalysis of th	e above
samples is	applicable o	only to those	e samples i	eceived by th	he laboratory	with this COC. The liability	lity of the laboratory i	s limited to	the a	mount	paid	for or	the re	eport							



envirotech Inc.

Printed: 7/18/2022 10:42:59AM

### **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:	07/18/22	10:05	Wor	k Order ID:	E207081
Phone:	(505) 382-1211	Date Logged In:	07/15/22	17:19	Log	ged In By:	Alexa Michaels
Email:	ashley.giovengo@wescominc.com	Due Date:	07/18/22	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: <u>U</u>	<u>IPS</u>		
4. Was the	e COC complete, i.e., signatures, dates/times, reques	sted analyses?	Yes				
5. Were al	Il samples received within holding time?  Note: Analysis, such as pH which should be conducted in		Yes			Comments	:/Resolution
Sample T	i.e, 15 minute hold time, are not included in this disucssidurn Around Time (TAT)	on.		Г		Commence	711000111011
	COC indicate standard TAT, or Expedited TAT?		Yes				
Sample C	<u>Cooler</u>						
7. Was a s	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was the	e sample(s) received intact, i.e., not broken?		Yes				
10. Were	custody/security seals present?		No				
11. If yes,	were custody/security seals intact?		NA				
	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. 4	<u>C</u>				
Sample C	queous VOC samples present?		No				
	OC samples collected in VOA Vials?		No NA				
	head space less than 6-8 mm (pea sized or less)?		NA NA				
			NA				
	trip blank (TB) included for VOC analyses?	ก					
	on-VOC samples collected in the correct containers'		Yes				
	appropriate volume/weight or number of sample contain	ners conected?	Yes				
Field Lab							
	field sample labels filled out with the minimum info ample ID?	ormation.	Yes				
	ate/Time Collected?		Yes	L			
	ollectors name?		No				
Sample P	<u>reservation</u>						
21. Does	the COC or field labels indicate the samples were pr	reserved?	No				
22. Are sa	ample(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved n	netals?	No				
Multipha	se Sample Matrix						
26. Does	the sample have more than one phase, i.e., multipha	se?	No				
27. If yes,	does the COC specify which phase(s) is to be analy	yzed?	NA				
	act Laboratory						
	act <u>Laboratory</u> Imples required to get sent to a subcontract laborato	.m.r.O	No				
	subcontract laboratory specified by the client and it	-	NA	Subcontract Lab			
		i so wilo:	INA	Subcontract Lab	па		
Client In	<u>struction</u>						

Date

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

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: Red Hills Facility Pad 1 05.07.22

Spill

Work Order: E207128

Job Number: 21022-0001

Received: 7/21/2022

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 7/22/22

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Envirotech Inc, holds the NM SDWA certification for data reported. (Lab #NM00979)

Date Reported: 7/22/22

Ashley Giovengo 1224 Standpipe Rd Carlsbad, NM 88220

Project Name: Red Hills Facility Pad 1 05.07.22 Spill

Workorder: E207128

Date Received: 7/21/2022 10:08:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/21/2022 10:08:00AM, under the Project Name: Red Hills Facility Pad 1 05.07.22 Spill.

The analytical test results summarized in this report with the Project Name: Red Hills Facility Pad 1 05.07.22 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

Lynn Jarbuc

Technical Representative/Client Services

Office: 505-421-LABS(5227)

Cell: 505-320-4759

ljarboe@envirotech-inc.com

West Texas Midland/Odessa Area Rayny Hagan Technical Representative

Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

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### **Sample Summary**

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	Donouto de
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	07/22/22 15:16

Client Sample ID	Lab Sample ID Matrix	Sampled Received	Container
CONF42 - 5.5'	E207128-01A Soil	07/19/22 07/21/22	Glass Jar, 4 oz.
CONF43 - 4'	E207128-02A Soil	07/18/22 07/21/22	Glass Jar, 4 oz.



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	7/22/2022 3:16:11PM

## CONF42 - 5.5'

E20	71	28	-01	

Anchae	D14	Reporting	Dilect	D	A	N-4
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2230072
Benzene	ND	0.0250	1	07/21/22	07/21/22	
Ethylbenzene	ND	0.0250	1	07/21/22	07/21/22	
Toluene	ND	0.0250	1	07/21/22	07/21/22	
o-Xylene	ND	0.0250	1	07/21/22	07/21/22	
p,m-Xylene	ND	0.0500	1	07/21/22	07/21/22	
Total Xylenes	ND	0.0250	1	07/21/22	07/21/22	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	07/21/22	07/21/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	Analyst: RKS		Batch: 2230072
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/21/22	07/21/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.3 %	70-130	07/21/22	07/21/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: JL		Batch: 2230070
Diesel Range Organics (C10-C28)	ND	25.0	1	07/21/22	07/21/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/21/22	07/21/22	
Surrogate: n-Nonane		75.1 %	50-200	07/21/22	07/21/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: KL		Batch: 2230083
Chloride	402	200	10	07/21/22	07/21/22	



Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 1 05.07.22 Spill1224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo7/22/2022 3:16:11PM

#### CONF43 - 4'

#### E207128-02

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: RKS		Batch: 2230072
Benzene	ND	0.0250	1	07/21/22	07/21/22	
Ethylbenzene	ND	0.0250	1	07/21/22	07/21/22	
Toluene	ND	0.0250	1	07/21/22	07/21/22	
o-Xylene	ND	0.0250	1	07/21/22	07/21/22	
p,m-Xylene	ND	0.0500	1	07/21/22	07/21/22	
Total Xylenes	ND	0.0250	1	07/21/22	07/21/22	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	07/21/22	07/21/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	Analyst: RKS		Batch: 2230072
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/21/22	07/21/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.0 %	70-130	07/21/22	07/21/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: JL		Batch: 2230070
Diesel Range Organics (C10-C28)	ND	25.0	1	07/21/22	07/21/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/21/22	07/21/22	
Surrogate: n-Nonane		83.3 %	50-200	07/21/22	07/21/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: KL		Batch: 2230083
Chloride	ND	200	10	07/21/22	07/21/22	



Kaiser Francis Oil Company 1224 Standpipe Rd	Project Name: Project Number:	Red Hills Facility Pad 1 05.07.22 Spill 21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	7/22/2022 3:16:11PM

Carlsbad NM, 88220		Project Manager	r: As	shley Gioveng	go			7//2	2/2022 3:16:11PM
		Volatile (	Organics b	y EPA 802	21B				Analyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2230072-BLK1)							Prepared: 0'	7/21/22 Anal	yzed: 07/21/22
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
o,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.31		8.00		104	70-130			
LCS (2230072-BS1)							Prepared: 0'	7/21/22 Anal	yzed: 07/21/22
Benzene	4.77	0.0250	5.00		95.3	70-130			
Ethylbenzene	4.12	0.0250	5.00		82.4	70-130			
Toluene	4.46	0.0250	5.00		89.2	70-130			
o-Xylene	4.42	0.0250	5.00		88.4	70-130			
o,m-Xylene	8.51	0.0500	10.0		85.1	70-130			
Total Xylenes	12.9	0.0250	15.0		86.2	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.32		8.00		104	70-130			
LCS Dup (2230072-BSD1)							Prepared: 0	7/21/22 Anal	yzed: 07/21/22
Benzene	4.89	0.0250	5.00		97.9	70-130	2.65	20	
Ethylbenzene	4.22	0.0250	5.00		84.5	70-130	2.51	20	
Toluene	4.58	0.0250	5.00		91.7	70-130	2.69	20	
o-Xylene	4.54	0.0250	5.00		90.8	70-130	2.61	20	
o,m-Xylene	8.72	0.0500	10.0		87.2	70-130	2.43	20	
Total Xylenes	13.3	0.0250	15.0		88.4	70-130	2.49	20	



Kaiser Francis Oil Company 1224 Standpipe Rd	Project Name: Project Number:	Red Hills Facility Pad 1 05.07.22 Spill 21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	7/22/2022 3:16:11PM

Carlsbad NM, 88220		Project Manager	r: As	hley Gioveng	50				7/22/2022 3:16:11PM
	Non	halogenated	Organics l	by EPA 801	15D - G	RO			Analyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2230072-BLK1)							Prepared: 0	7/21/22	Analyzed: 07/21/22
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.55		8.00		94.4	70-130			
LCS (2230072-BS2)							Prepared: 0	7/21/22	Analyzed: 07/21/22
Gasoline Range Organics (C6-C10)	45.3	20.0	50.0		90.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.43		8.00		92.9	70-130			
LCS Dup (2230072-BSD2)							Prepared: 0	7/21/22	Analyzed: 07/21/22
Gasoline Range Organics (C6-C10)	45.8	20.0	50.0		91.6	70-130	1.08	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.58		8.00		94.8	70-130			

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	•
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	7/22/2022 3:16:11PM

Carlsbad NM, 88220		Project Manage	r: As	shley Gioveng	go			7	/22/2022 3:16:11PN
	Nonha	logenated Or	ganics by	EPA 80151	D - 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 (2230070-BLK1)							Prepared: 0	7/21/22 Ana	alyzed: 07/21/22
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	37.2		50.0		74.4	50-200			
LCS (2230070-BS1)							Prepared: 0	7/21/22 Ana	alyzed: 07/21/22
Diesel Range Organics (C10-C28)	189	25.0	250		75.4	38-132			
Surrogate: n-Nonane	33.5		50.0		67.1	50-200			
Matrix Spike (2230070-MS1)				Source:	E207116-0	02	Prepared: 0	7/21/22 Ana	alyzed: 07/21/22
Diesel Range Organics (C10-C28)	760	250	250	524	94.5	38-132			
Surrogate: n-Nonane	42.6		50.0		85.3	50-200			
Matrix Spike Dup (2230070-MSD1)				Source:	E207116-0	02	Prepared: 0	7/21/22 Ana	alyzed: 07/21/22
Diesel Range Organics (C10-C28)	844	250	250	524	128	38-132	10.4	20	
Surrogate: n-Nonane	47.6		50.0		95.2	50-200			

Matrix Spike Dup (2230083-MSD1)

Chloride

565

### **QC Summary Data**

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220		Project Name: Project Number Project Manage	:	Red Hills Facili 21022-0001 Ashley Gioveng	•	)5.07.22 S	pill		<b>Reported:</b> 7/22/2022 3:16:11PM
		Anions	by EPA	300.0/9056	4				Analyst: KL
Analyte	Result mg/kg	Reporting Limit	Spike Level mg/kg	Source Result mg/kg	Rec	Rec Limits	RPD %	RPD Limit %	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	/0	/0	70	/0	Notes
Blank (2230083-BLK1)							Prepared: 0	7/21/22 A	Analyzed: 07/21/22
Chloride	ND	20.0							
LCS (2230083-BS1)							Prepared: 0	7/21/22 A	Analyzed: 07/21/22
Chloride	250	20.0	250		99.8	90-110			
Matrix Spike (2230083-MS1)				Source:	E207128-	-01	Prepared: 0	7/21/22 A	Analyzed: 07/21/22
Chloride	742	200	250	402	136	80-120			M2

250

200

Source: E207128-01

65.2

80-120

27.0

402

#### 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: 07/21/22 Analyzed: 07/21/22

20

M2

#### **Definitions and Notes**

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	07/22/22 15:16

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.



	aiser Fran				Bill To				La	ab Us	se On	ly				TA	AT	EPA P	rogram
	Red Hills			7.22 Spill	Attention: Wescom Inc		Lab WO#			0	Job Number			1D	2D	) 3D	Standard	CWA	SDWA
	Manager:				Address: 1224 Standpipe Rd		E207/28		8	21022-0001		X							
	1224 Sta				City, State, Zip: Carlsbad, NM 8	8220					Analy	sis aı	nd Meth	od					RCRA
City, Stat	te, Zip: Ca	rlsbad, N	IM 88220		Phone: 505-382-1211								- 7						
	505-382-1				Email: ashley.giovengo@wesco	ominc.com	115	8015										State	
mail: a	shley.giov	engo@w	escoming	c.com_			y 80	y 80	21	0		300.0		5			NM CO	UT AZ	TX
port d	lue by:						ROE	30 b	/ 80.	826	601(	e 30		Z	×		×		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID		Lab Number	DRO/ORO by 8015	GRO/DRO by	BTEX by 8021	VOC by 8260	Metals 6010	Chloride		BGDOC	BGDOC			Remarks	
13:40	7/19/22	Soil	1 Jar		CONF42 - 5.5'	1								х					
3:43	7/18/22	Soil	1 Jar		CONF43 - 4'	2								х					
			1																
															Щ				
Additio	nal Instruc	tions: I	Cept on ic	e, Please CC: o	cole.burton@wescominc.com, shar.h	arvester@wes	comi	nc.co	m, a	shle	v.gio	vene	o@wes	comi	10.00	m			
I, (field san	npler), attest t	the validity	and authent		I am aware that tampering with or intentionally mis						Samples	s requir	ing thermal	preserva	tion mu	st be rece	eived on ice the day t		ed or receive
XM	ned by: (Sign ned by: Sign	OKRI OKRI	RO O	1.20.22 Time	Received by (Signature)	Date Date	1-20	Time	:4	5	Rece	ived	on ice:	(A)	ab U	se Onl	У		
Jul	ned by: (Sign	ey	Date	7-200)	Received by: (Signature)	4 7/21/2 Date	2	Time 10.	:08	5	<u>T1</u>			<u>T2</u>			T3		
Reinquisi	Led by: (Sign	ature)	Date	Time	neceived by, (signature)						AVG			4					
				queous, O - Other_		Container	Туре	: g - g	lass, p	<b>p</b> - pc	oly/pla	stic,	ag - amb	er gla	ss, v -	VOA			
Note: San samples i	nples are dis s applicable (	carded 30 d	lays after re se samples r	sults are reported eceived by the lat	unless other arrangements are made. Hazaro oratory with this COC. The liability of the labo	dous samples will ratory is limited to	be ret	urned mount	to clie	ent or for or	dispos	ed of	at the cli	ent exp	ense.	The re	eport for the ana	lysis of the	above



Printed: 7/21/2022 2:06:43PM

#### **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:	07/21/22	10:08	Work Order ID:	E207128
Phone:	(505) 382-1211	Date Logged In:	07/21/22	08:46	Logged In By:	Caitlin Christian
Email:	ashley.giovengo@wescominc.com	Due Date:	07/21/22	17:00 (0 day TAT)		
GI. I						
	f Custody (COC)		••			
	the sample ID match the COC?	tab the COC	Yes			
	the number of samples per sampling site location man	ich the COC	Yes			
	samples dropped off by client or carrier?	-4- <b>4</b> 19	Yes	Carrier: <u>UPS</u>		
	ne COC complete, i.e., signatures, dates/times, reques	sted analyses?	Yes			
5. were	all samples received within holding time?  Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssion.		Yes		<u>Comment</u>	s/Resolution
<b>Sample</b>	<u> Turn Around Time (TAT)</u>					
6. Did th	e COC indicate standard TAT, or Expedited TAT?		Yes			
<b>Sample</b>	<u>Cooler</u>					
7. Was a	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes			
9. Was tl	ne sample(s) received intact, i.e., not broken?		Yes			
10. Were	custody/security seals present?		No			
11. If ye	s, were custody/security seals intact?		NA			
	he sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples ar minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes			
Sample	<u>Container</u>					
	aqueous VOC samples present?		No			
	VOC samples collected in VOA Vials?		NA			
	e head space less than 6-8 mm (pea sized or less)?		NA			
	a trip blank (TB) included for VOC analyses?		NA			
	non-VOC samples collected in the correct containers	?	Yes			
	appropriate volume/weight or number of sample contain		Yes			
Field La						
	e field sample labels filled out with the minimum info	ormation:				
	Sample ID?		Yes			
	Date/Time Collected?		Yes	<u> </u>		
	Collectors name?		No			
	<u>Preservation</u>					
	the COC or field labels indicate the samples were pr	reserved?	No			
	sample(s) correctly preserved?		NA			
24. Is lat	o filteration required and/or requested for dissolved n	netals?	No			
	ase Sample Matrix					
	the sample have more than one phase, i.e., multipha		No			
27. If ye	s, does the COC specify which phase(s) is to be analy	zed?	NA			
Subcont	ract Laboratory					
	samples required to get sent to a subcontract laborato	ry?	No			
	a subcontract laboratory specified by the client and it	•	NA	Subcontract Lab: na		
Client l	nstruction					
<u>enene i</u>	non action					
Ц						

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: Red Hills Facility Pad 1 05.07.22

Spill

Work Order: E208132

Job Number: 21022-0001

Received: 8/24/2022

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 8/30/22

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

Date Reported: 8/30/22

Ashley Giovengo 1224 Standpipe Rd Carlsbad, NM 88220

Project Name: Red Hills Facility Pad 1 05.07.22 Spill

Workorder: E208132

Date Received: 8/24/2022 10:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/24/2022 10:30:00AM, under the Project Name: Red Hills Facility Pad 1 05.07.22 Spill.

The analytical test results summarized in this report with the Project Name: Red Hills Facility Pad 1 05.07.22 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

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Envirotech Web Address: www.envirotech-inc.com



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## Sample Summary

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	Donoutoda
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	08/30/22 12:46

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
CONF47 - 3'	E208132-01A Soil	08/18/22	08/24/22	Glass Jar, 4 oz.
CONF48 - 3'	E208132-02A Soil	08/18/22	08/24/22	Glass Jar, 4 oz.
CONF49 - 3'	E208132-03A Soil	08/18/22	08/24/22	Glass Jar, 4 oz.
CONF50 - 3'	E208132-04A Soil	08/19/22	08/24/22	Glass Jar, 4 oz.
CONF51 - 3'	E208132-05A Soil	08/19/22	08/24/22	Glass Jar, 4 oz.
CONF52 - 3'	E208132-06A Soil	08/19/22	08/24/22	Glass Jar, 4 oz.



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/30/2022 12:46:23PM

#### CONF47 - 3' E208132-01

	E200132-01				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Anal	lyst: IY		Batch: 2235038
ND	0.0250	1	08/24/22	08/25/22	
ND	0.0250	1	08/24/22	08/25/22	
ND	0.0250	1	08/24/22	08/25/22	
ND	0.0250	1	08/24/22	08/25/22	
ND	0.0500	1	08/24/22	08/25/22	
ND	0.0250	1	08/24/22	08/25/22	
	103 %	70-130	08/24/22	08/25/22	
mg/kg	mg/kg	Ana	lyst: IY		Batch: 2235038
ND	20.0	1	08/24/22	08/25/22	
	97.5 %	70-130	08/24/22	08/25/22	
mg/kg	mg/kg	Ana	lyst: KM		Batch: 2235025
ND	25.0	1	08/24/22	08/25/22	
ND	50.0	1	08/24/22	08/25/22	
	76.8 %	50-200	08/24/22	08/25/22	
mg/kg	mg/kg	Ana	lyst: KL		Batch: 2235036
66.2	20.0	1	08/24/22	08/25/22	
	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           I03 %         mg/kg           mg/kg         mg/kg           ND         20.0           97.5 %         mg/kg           ND         25.0           ND         50.0           76.8 %         mg/kg           mg/kg         mg/kg	Reporting           Result         Limit         Dilution           mg/kg         mg/kg         Anal           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           Mg/kg         mg/kg         Anal           ND         20.0         1           97.5 %         70-130         70-130           mg/kg         mg/kg         Anal           ND         25.0         1           ND         50.0         1           76.8 %         50-200           mg/kg         mg/kg         Anal	Reporting           Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: 1Y           ND         0.0250         1         08/24/22           ND         0.0250         1         08/24/22           ND         0.0250         1         08/24/22           ND         0.0250         1         08/24/22           ND         0.0500         1         08/24/22           ND         0.0250         1         08/24/22           mg/kg         mg/kg         Analyst: IY           ND         20.0         1         08/24/22           mg/kg         mg/kg         Analyst: KM           ND         25.0         1         08/24/22           ND         50.0         1         08/24/22           ND         50.0         1         08/24/22           ND         50.0         1         08/24/22           ND         50.0         1         08/24/22           mg/kg         Mg/24/22         08/24/22	Reporting           Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: IY           ND         0.0250         1         08/24/22         08/25/22           ND         0.0250         1         08/24/22         08/25/22           ND         0.0250         1         08/24/22         08/25/22           ND         0.0500         1         08/24/22         08/25/22           ND         0.0250         1         08/24/22         08/25/22           ND         0.0250         1         08/24/22         08/25/22           mg/kg         mg/kg         Analyst: IY         ND         08/25/22           mg/kg         mg/kg         Analyst: KM         ND         20.0         1         08/24/22         08/25/22           mg/kg         mg/kg         Analyst: KM         ND         25.0         1         08/24/22         08/25/22           ND         25.0         1         08/24/22         08/25/22           ND         50.0         1         08/24/22         08/25/22           ND         50.0         1         08/24/22         08/25/22



Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 1 05.07.22 Spill1224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo8/30/2022 12:46:23PM

#### CONF48 - 3'

#### E208132-02

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	/st: IY		Batch: 2235038
Benzene	ND	0.0250	1	08/24/22	08/25/22	
Ethylbenzene	ND	0.0250	1	08/24/22	08/25/22	
Toluene	ND	0.0250	1	08/24/22	08/25/22	
o-Xylene	ND	0.0250	1	08/24/22	08/25/22	
p,m-Xylene	ND	0.0500	1	08/24/22	08/25/22	
Total Xylenes	ND	0.0250	1	08/24/22	08/25/22	
Surrogate: 4-Bromochlorobenzene-PID		103 %	70-130	08/24/22	08/25/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	Analyst: IY		Batch: 2235038
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/24/22	08/25/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.5 %	70-130	08/24/22	08/25/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: KM		Batch: 2235025
Diesel Range Organics (C10-C28)	ND	25.0	1	08/24/22	08/25/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/24/22	08/25/22	
Surrogate: n-Nonane		80.7 %	50-200	08/24/22	08/25/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	/st: KL		Batch: 2235036
Chloride	300	20.0	1	08/24/22	08/25/22	



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/30/2022 12:46:23PM

#### CONF49 - 3'

		E208132-03				
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: IY		Batch: 2235038
Benzene	ND	0.0250	1	08/24/22	08/25/22	
Ethylbenzene	ND	0.0250	1	08/24/22	08/25/22	
Toluene	ND	0.0250	1	08/24/22	08/25/22	
o-Xylene	ND	0.0250	1	08/24/22	08/25/22	
p,m-Xylene	ND	0.0500	1	08/24/22	08/25/22	
Total Xylenes	ND	0.0250	1	08/24/22	08/25/22	
Surrogate: 4-Bromochlorobenzene-PID		103 %	70-130	08/24/22	08/25/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: IY		Batch: 2235038
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/24/22	08/25/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.4 %	70-130	08/24/22	08/25/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: KM		Batch: 2235025
Diesel Range Organics (C10-C28)	ND	25.0	1	08/24/22	08/24/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/24/22	08/24/22	
Surrogate: n-Nonane		68.2 %	50-200	08/24/22	08/24/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: KL		Batch: 2235036
Chloride	32.3	20.0	1	08/24/22	08/25/22	



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/30/2022 12:46:23PM

#### CONF50 - 3' E208132-04

		E208132-04				
	D. I.	Reporting		D 1		N
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: IY		Batch: 2235038
Benzene	ND	0.0250	1	08/24/22	08/25/22	
Ethylbenzene	ND	0.0250	1	08/24/22	08/25/22	
Toluene	ND	0.0250	1	08/24/22	08/25/22	
o-Xylene	ND	0.0250	1	08/24/22	08/25/22	
p,m-Xylene	ND	0.0500	1	08/24/22	08/25/22	
Total Xylenes	ND	0.0250	1	08/24/22	08/25/22	
Surrogate: 4-Bromochlorobenzene-PID		103 %	70-130	08/24/22	08/25/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: IY		Batch: 2235038
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/24/22	08/25/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.8 %	70-130	08/24/22	08/25/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: KM		Batch: 2235025
Diesel Range Organics (C10-C28)	ND	25.0	1	08/24/22	08/24/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/24/22	08/24/22	
Surrogate: n-Nonane		80.3 %	50-200	08/24/22	08/24/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: KL		Batch: 2235036
Chloride	22.9	20.0	1	08/24/22	08/25/22	



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/30/2022 12:46:23PM

### CONF51 - 3'

		E208132-05				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: IY		Batch: 2235038
Benzene	ND	0.0250	1	08/24/22	08/25/22	
Ethylbenzene	ND	0.0250	1	08/24/22	08/25/22	
Toluene	ND	0.0250	1	08/24/22	08/25/22	
o-Xylene	ND	0.0250	1	08/24/22	08/25/22	
p,m-Xylene	ND	0.0500	1	08/24/22	08/25/22	
Total Xylenes	ND	0.0250	1	08/24/22	08/25/22	
Surrogate: 4-Bromochlorobenzene-PID		103 %	70-130	08/24/22	08/25/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: IY		Batch: 2235038
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/24/22	08/25/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.3 %	70-130	08/24/22	08/25/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2235025
Diesel Range Organics (C10-C28)	ND	25.0	1	08/24/22	08/24/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/24/22	08/24/22	
Surrogate: n-Nonane		80.5 %	50-200	08/24/22	08/24/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: KL		Batch: 2235036
Chloride	ND	20.0	1	08/24/22	08/25/22	



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/30/2022 12:46:23PM

#### CONF52 - 3' E208132-06

		E208132-06				
		Reporting	<b>-</b>			
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: IY		Batch: 2235038
Benzene	ND	0.0250	1	08/24/22	08/25/22	
Ethylbenzene	ND	0.0250	1	08/24/22	08/25/22	
Toluene	ND	0.0250	1	08/24/22	08/25/22	
o-Xylene	ND	0.0250	1	08/24/22	08/25/22	
p,m-Xylene	ND	0.0500	1	08/24/22	08/25/22	
Total Xylenes	ND	0.0250	1	08/24/22	08/25/22	
Surrogate: 4-Bromochlorobenzene-PID		103 %	70-130	08/24/22	08/25/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: IY		Batch: 2235038
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/24/22	08/25/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.3 %	70-130	08/24/22	08/25/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2235025
Diesel Range Organics (C10-C28)	ND	25.0	1	08/24/22	08/24/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/24/22	08/24/22	
Surrogate: n-Nonane		81.3 %	50-200	08/24/22	08/24/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: KL		Batch: 2235036
Chloride	ND	20.0	1	08/24/22	08/25/22	



Red Hills Facility Pad 1 05.07.22 Spill Kaiser Francis Oil Company Project Name: Reported: 1224 Standpipe Rd Project Number: 21022-0001 Carlsbad NM, 88220 Project Manager: Ashley Giovengo 8/30/2022 12:46:23PM **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 (2235038-BLK1) Prepared: 08/24/22 Analyzed: 08/24/22 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 8.28 8.00 104 70-130 LCS (2235038-BS1) Prepared: 08/24/22 Analyzed: 08/24/22 4.57 91.4 70-130 5.00 Benzene 0.0250 Ethylbenzene 4.59 0.0250 5.00 91.8 70-130 4.69 0.0250 5.00 93.8 70-130 Toluene 4.72 94.5 o-Xylene 0.0250 5.00 70-130 9.30 10.0 93.0 70-130 0.0500 p.m-Xvlene 93.5 70-130 14.0 15.0 Total Xylenes 0.0250 8.00 104 70-130 Surrogate: 4-Bromochlorobenzene-PID 8.35 Matrix Spike (2235038-MS1) Source: E208129-02 Prepared: 08/24/22 Analyzed: 08/24/22 4.55 0.0250 5.00 ND 54-133 Benzene ND 91.0 61-133 Ethylbenzene 4.55 0.0250 5.00 Toluene 4.65 0.0250 5.00 ND 93.1 61-130 4.65 ND 93.0 63-131 5.00 0.0250 o-Xylene p,m-Xylene 9.20 0.0500 10.0 ND 92.0 63-131 0.0250 15.0 ND 63-131 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 8.28 8.00 Matrix Spike Dup (2235038-MSD1) Source: E208129-02 Prepared: 08/24/22 Analyzed: 08/24/22 4.57 0.0250 5.00 ND 91.3 54-133 0.472 20 61-133 0.510 4.57 0.0250 5.00 ND 91.4 20 Ethylbenzene Toluene 4 67 0.0250 5.00 ND 93.5 61-130 0.445 20 4.69 5.00 ND 93.7 63-131 0.713 20 o-Xylene 0.0250 9.25 92.5 0.570 10.0 ND 63-131 20 p,m-Xylene 0.0500 Total Xylenes 13.9 0.0250 15.0 ND 92.9 63-131 0.618 20

8.00

104

70-130



Surrogate: 4-Bromochlorobenzene-PID

8.29

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	-
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/30/2022 12:46:23PM

Carlsbad NM, 88220		Project Manage	r: As	hley Gioveng	go			8/30	)/2022 12:46:23PM	
Nonhalogenated Organics by EPA 8015D - GRO  Analyst: IY										
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes	
Blank (2235038-BLK1)							Prepared: 0	8/24/22 Anal	/zed: 08/24/22	
Gasoline Range Organics (C6-C10)	ND	20.0								
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.04		8.00		100	70-130				
LCS (2235038-BS2)							Prepared: 0	8/24/22 Anal	zed: 08/24/22	
Gasoline Range Organics (C6-C10)	43.0	20.0	50.0		86.1	70-130				
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.97		8.00		99.6	70-130				
Matrix Spike (2235038-MS2)				Source:	E208129-	02	Prepared: 0	8/24/22 Anal	zed: 08/24/22	
Gasoline Range Organics (C6-C10)	44.3	20.0	50.0	ND	88.6	70-130				
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.92		8.00		99.0	70-130				
Matrix Spike Dup (2235038-MSD2)				Source:	E208129-	02	Prepared: 0	8/24/22 Analy	zed: 08/24/22	
Gasoline Range Organics (C6-C10)	42.2	20.0	50.0	ND	84.4	70-130	4.79	20		
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.95		8.00		99.3	70-130				



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	-
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/30/2022 12:46:23PM

Carlsbad NM, 88220		Project Manager	r: As	hley Gioveng	go			8/3	0/2022 12:46:23PN		
Nonhalogenated Organics by EPA 8015D - 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 (2235025-BLK1)							Prepared: 0	8/23/22 Anal	yzed: 08/24/22		
Diesel Range Organics (C10-C28)	ND	25.0									
Dil Range Organics (C28-C36)	ND	50.0									
urrogate: n-Nonane	40.7		50.0		81.5	50-200					
LCS (2235025-BS1)							Prepared: 0	8/23/22 Anal	yzed: 08/24/22		
Diesel Range Organics (C10-C28)	222	25.0	250		88.8	38-132					
urrogate: n-Nonane	35.7		50.0		71.4	50-200					
Matrix Spike (2235025-MS1)				Source:	E208123-	03	Prepared: 0	8/23/22 Anal	yzed: 08/24/22		
Diesel Range Organics (C10-C28)	8930	1250	250	8760	67.9	38-132					
urrogate: n-Nonane	46.1		50.0		92.3	50-200					
Matrix Spike Dup (2235025-MSD1)				Source:	E208123-	03	Prepared: 0	8/23/22 Anal	yzed: 08/24/22		
Diesel Range Organics (C10-C28)	9260	1250	250	8760	201	38-132	3.67	20	M4		
urrogate: n-Nonane	46.1		50.0		92.2	50-200					



Matrix Spike Dup (2235036-MSD1)

Chloride

### **QC Summary Data**

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220		Project Name: Project Number Project Manage	:	Red Hills Facility Pad 1 05.07.22 Spill 21022-0001 Ashley Giovengo				8	<b>Reported:</b> 8/30/2022 12:46:23PM		
		Anions	by EPA	300.0/9056	4				Analyst: KL		
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit			
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes		
Blank (2235036-BLK1)							Prepared: 0	8/24/22 An	nalyzed: 08/25/22		
Chloride	ND	20.0									
LCS (2235036-BS1)							Prepared: 0	8/24/22 An	nalyzed: 08/25/22		
Chloride	253	20.0	250		101	90-110					
Matrix Spike (2235036-MS1)				Source:	E208119-	01	Prepared: 0	8/24/22 An	nalyzed: 08/25/22		
Chloride	797	20.0	250	625	69.0	80-120			M2		

250

20.0

Source: E208119-01

66.5

80-120

0.795

625

#### 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: 08/24/22 Analyzed: 08/25/22

20

M2

## **Definitions and Notes**

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	08/30/22 12:46

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

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.



6.07.223/11	of Custody	′				Qo	* 3	81.	ろ(	Q		Page	of <u>_</u>
ent: Vaser-Francis Di Co oject: led Hills Facility fad oject Manager: Ashley Giovenso Idress: 1274 Stand operation  ty, State, Zip Carls bad, Am 6 8 727 Phone: 505-382-121	piger	Lab )	NO#			Only lob Ni 2102		1D	2D	TA 3D	Standard	EPA PI	SDWA
ty, State, Zip Carls bad Am 68727Phone: 505-382-1211  none: 505-382-1211  nail: ashley · giovenso a) westomine . Com westort due by:  Time Date Matrix No. of Sample ID	Scom	DRO/ORO by 8015	GRO/DRO by 8015	8021		010	Chloride 300.0	BGDOC NM	XT OC		NM CO	State UT AZ Remarks	TX
cos 8/18 Soi ) Gay CONFLIT-31	Number	DRC	g.	ВТЕХ	<u>Ş</u>	Me	5	<b>X</b>	Верос			Remarks	
:11 08/18 50:11 1jar CONF48-31	2							X					
:0408/18 Soil 1jar CONF49-31	3		-		1	+		7					<u></u>
:5008/19 Soil 1jar CONF50-3'	5							×					
:35 08/19 50:11 1jar CONF 52-31	U			-	-	_		P					
dditional Instructions: Preserved on ice, Please c  Shar-harvesteral westerning. Comp  field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabel	e as	Nle es u	<b>*</b>	5:0	Is	amples r	equiring therma	il preservat	tion mu	st be rec	eived on ice the day th	ney are sample	ed or received
linguished by (Signature)  Date  Time  Received by (Signature)  Page 17 Time  Received by (Signature)  Time  Received by (Signature)  Received by (Signature)	Date Brown	22 22	Time	3	7		ed on ice:	نار		se Onl			

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA ent or disposed of at the client expense. The report for the analysis of the above or on the report.

Page 205

Control techniques and the client expense. The report for the analysis of the above or on the report. 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.

Received by: (Signature)

Relinquished by: (Signature)

Date

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

Time



AVG Temp °C 4

Date

Time

envirotech Inc.

Printed: 8/24/2022 11:03:50AM

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

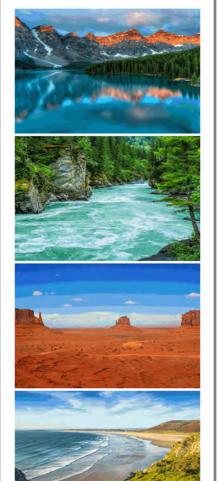
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Kaiser Francis Oil Company	Date Received:	08/24/22	10:30		Work Order ID:	E208132
Phone:	(505) 382-1211	Date Logged In:	08/24/22	10:03		Logged In By:	Caitlin Christian
Email:	ashley.giovengo@wescominc.com	Due Date:	08/30/22	17:00 (4 day TAT)			
1. Does th 2. Does th 3. Were so 4. Was th 5. Were a	Custody (COC)  ne sample ID match the COC?  ne number of samples per sampling site location match amples dropped off by client or carrier?  ne COC complete, i.e., signatures, dates/times, requell samples received within holding time?  Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssicurn Around Time (TAT)  ne COC indicate standard TAT, or Expedited TAT?	sted analyses?	Yes Yes Yes Yes Yes Yes	Carrier: <u>U</u>	JPS	<u>Comment</u>	s/Resolution
7. Was a s	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was the	e sample(s) received intact, i.e., not broken?		Yes				
10. Were	custody/security seals present?		No				
11. If yes.	, were custody/security seals intact?		NA				
12. Was th	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	re received w/i 15	Yes				
Sample C	<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 contai	ners collected?	Yes				
S	oel field sample labels filled out with the minimum info ample ID? late/Time Collected? collectors name?	ormation:	Yes Yes No				
Sample P	Preservation_						
21. Does	the COC or field labels indicate the samples were p	reserved?	No				
22. Are sa	ample(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved n	netals?	No				
Multipha	se Sample Matrix						
26. Does	the sample have more than one phase, i.e., multipha	ise?	No				
27. If yes	, does the COC specify which phase(s) is to be analy	yzed?	NA				
28. Are sa	ract Laboratory amples required to get sent to a subcontract laborato subcontract laboratory specified by the client and i	•	No NA	Subcontract Lab	o: na		
Client In	<u>nstruction</u>						

Date

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

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: Red Hills Facility Pad 1 05.07.22

Spill

Work Order: E208169

Job Number: 21022-0001

Received: 8/31/2022

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 9/2/22

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Envirotech Inc, holds the NM SDWA certification for data reported. (Lab #NM00979)

Date Reported: 9/2/22

Ashley Giovengo 1224 Standpipe Rd Carlsbad, NM 88220

Project Name: Red Hills Facility Pad 1 05.07.22 Spill

Workorder: E208169

Date Received: 8/31/2022 10:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/31/2022 10:00:00AM, under the Project Name: Red Hills Facility Pad 1 05.07.22 Spill.

The analytical test results summarized in this report with the Project Name: Red Hills Facility Pad 1 05.07.22 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

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**Southern New Mexico Area** Lynn Jarboe

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ljarboe@envirotech-inc.com

West Texas Midland/Odessa Area Rayny Hagan Technical Representative

Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

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## Sample Summary

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	Donoutoda
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	09/02/22 09:16

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
CONF53 - 3'	E208169-01A Soil	08/23/22	08/31/22	Glass Jar, 4 oz.
CONF54 - 3'	E208169-02A Soil	08/23/22	08/31/22	Glass Jar, 4 oz.
CONF55 - 3'	E208169-03A Soil	08/23/22	08/31/22	Glass Jar, 4 oz.
CONF56 - 3'	F208169-04A Soil	08/23/22	08/31/22	Glass Jar. 4 oz.



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/2/2022 9:16:52AM

#### CONF53 - 3' E208169-01

		E208169-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2236034
Benzene	ND	0.0250	1	08/31/22	08/31/22	
Ethylbenzene	ND	0.0250	1	08/31/22	08/31/22	
Toluene	ND	0.0250	1	08/31/22	08/31/22	
o-Xylene	ND	0.0250	1	08/31/22	08/31/22	
p,m-Xylene	ND	0.0500	1	08/31/22	08/31/22	
Total Xylenes	ND	0.0250	1	08/31/22	08/31/22	
Surrogate: 4-Bromochlorobenzene-PID		99.2 %	70-130	08/31/22	08/31/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2236034
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/31/22	08/31/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.8 %	70-130	08/31/22	08/31/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: JL		Batch: 2236039
Diesel Range Organics (C10-C28)	ND	25.0	1	08/31/22	08/31/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/31/22	08/31/22	
Surrogate: n-Nonane		106 %	50-200	08/31/22	08/31/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2236024
Chloride	ND	20.0	1	08/30/22	08/31/22	



# **Sample Data**

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/2/2022 9:16:52AM

#### **CONF54 - 3'**

E208169-02						
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2236034
Benzene	ND	0.0250	1	08/31/22	08/31/22	
Ethylbenzene	ND	0.0250	1	08/31/22	08/31/22	
Toluene	ND	0.0250	1	08/31/22	08/31/22	
o-Xylene	ND	0.0250	1	08/31/22	08/31/22	
p,m-Xylene	ND	0.0500	1	08/31/22	08/31/22	
Total Xylenes	ND	0.0250	1	08/31/22	08/31/22	
Surrogate: 4-Bromochlorobenzene-PID		99.1 %	70-130	08/31/22	08/31/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2236034	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/31/22	08/31/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.5 %	70-130	08/31/22	08/31/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: JL		Batch: 2236039
Diesel Range Organics (C10-C28)	ND	25.0	1	08/31/22	08/31/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/31/22	08/31/22	
Surrogate: n-Nonane		96.3 %	50-200	08/31/22	08/31/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2236024
Chloride	81.0	20.0	1	08/30/22	08/31/22	



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/2/2022 9:16:52AM

#### CONF55 - 3'

E208169-03						
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2236034
Benzene	ND	0.0250	1	08/31/22	08/31/22	
Ethylbenzene	ND	0.0250	1	08/31/22	08/31/22	
Toluene	ND	0.0250	1	08/31/22	08/31/22	
o-Xylene	ND	0.0250	1	08/31/22	08/31/22	
p,m-Xylene	ND	0.0500	1	08/31/22	08/31/22	
Total Xylenes	ND	0.0250	1	08/31/22	08/31/22	
Surrogate: 4-Bromochlorobenzene-PID		98.4 %	70-130	08/31/22	08/31/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2236034	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/31/22	08/31/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.9 %	70-130	08/31/22	08/31/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: JL		Batch: 2236039
Diesel Range Organics (C10-C28)	ND	25.0	1	08/31/22	08/31/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/31/22	08/31/22	
Surrogate: n-Nonane		143 %	50-200	08/31/22	08/31/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2236024
Chloride	ND	200	10	08/30/22	08/31/22	



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/2/2022 9:16:52AM

### CONF56 - 3'

E3001	<i>~</i>	Α.
E2081	69-	-04

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	lyst: RKS		Batch: 2236034
Benzene	ND	0.0250	1	08/31/22	08/31/22	
Ethylbenzene	ND	0.0250	1	08/31/22	08/31/22	
Toluene	ND	0.0250	1	08/31/22	08/31/22	
o-Xylene	ND	0.0250	1	08/31/22	08/31/22	
p,m-Xylene	ND	0.0500	1	08/31/22	08/31/22	
Total Xylenes	ND	0.0250	1	08/31/22	08/31/22	
Surrogate: 4-Bromochlorobenzene-PID		98.1 %	70-130	08/31/22	08/31/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	g Analyst: RKS		Batch: 2236034	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/31/22	08/31/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.8 %	70-130	08/31/22	08/31/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	lyst: JL		Batch: 2236039
Diesel Range Organics (C10-C28)	ND	25.0	1	08/31/22	08/31/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/31/22	08/31/22	
Surrogate: n-Nonane		72.0 %	50-200	08/31/22	08/31/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	lyst: RAS		Batch: 2236024



		· ·	
Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/2/2022 9:16:52AM
	Analyst: RKS		

Carisbad 14141, 00220		1 Toject Wianage		micy Gloveng	,•				
		Volatile Organics by EPA 8021B					Analyst: RKS		
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2236034-BLK1)						]	Prepared: 0	8/31/22 Ana	lyzed: 08/31/22
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.70		8.00		96.3	70-130			
LCS (2236034-BS1)						]	Prepared: 0	8/31/22 Ana	lyzed: 08/31/22
Benzene	4.39	0.0250	5.00		87.8	70-130			
Ethylbenzene	4.58	0.0250	5.00		91.6	70-130			
Toluene	4.63	0.0250	5.00		92.6	70-130			
o-Xylene	4.63	0.0250	5.00		92.6	70-130			
p,m-Xylene	9.25	0.0500	10.0		92.5	70-130			
Total Xylenes	13.9	0.0250	15.0		92.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.03		8.00		100	70-130			
LCS Dup (2236034-BSD1)							Prepared: 0	8/31/22 Ana	lyzed: 08/31/22
Benzene	4.83	0.0250	5.00		96.6	70-130	9.51	20	
Ethylbenzene	5.06	0.0250	5.00		101	70-130	9.81	20	
Toluene	5.09	0.0250	5.00		102	70-130	9.40	20	
o-Xylene	5.03	0.0250	5.00		101	70-130	8.21	20	
p,m-Xylene	10.2	0.0500	10.0		102	70-130	9.44	20	
Total Xylenes	15.2	0.0250	15.0		101	70-130	9.03	20	
Surrogate: 4-Bromochlorobenzene-PID	8.13		8.00		102	70-130			



Surrogate: 1-Chloro-4-fluorobenzene-FID

7.39

## **QC Summary Data**

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/2/2022 9:16:52AM

Carlsbad NM, 88220		Project Number: Project Manager		022-0001 shley Gioveng	o			9/2	/2022 9:16:52AM
	Non	halogenated (	Organics l	by EPA 801	[5D - G]	RO		A	nalyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2236034-BLK1)						F	Prepared: 0	8/31/22 Analy	vzed: 08/31/22
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.28		8.00		90.9	70-130			
LCS (2236034-BS2)						F	Prepared: 0	8/31/22 Analy	zed: 08/31/22
Gasoline Range Organics (C6-C10)	49.0	20.0	50.0		98.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.39		8.00		92.4	70-130			
LCS Dup (2236034-BSD2)						F	Prepared: 0	8/31/22 Analy	zed: 08/31/22
Gasoline Range Organics (C6-C10)	50.9	20.0	50.0		102	70-130	3.83	20	

8.00

92.4

70-130

Kaiser Francis Oil Company 1224 Standpipe Rd	Project Name: Project Number:	Red Hills Facility Pad 1 05.07.22 Spill 21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/2/2022 9:16:52AM

Carlsbad NM, 88220		Project Manage	r: As	shley Giovens	go			9	/2/2022 9:16:52AM
	Nonha	logenated Or	ganics by	EPA 80151	D - 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 (2236039-BLK1)							Prepared: 0	8/31/22 Ana	alyzed: 08/31/22
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.5		50.0		103	50-200			
LCS (2236039-BS1)							Prepared: 0	8/31/22 Ana	alyzed: 08/31/22
Diesel Range Organics (C10-C28)	242	25.0	250		96.6	38-132			
Surrogate: n-Nonane	44.4		50.0		88.9	50-200			
Matrix Spike (2236039-MS1)				Source:	E208169-	03	Prepared: 0	8/31/22 Ana	alyzed: 08/31/22
Diesel Range Organics (C10-C28)	247	25.0	250	ND	98.9	38-132			
Surrogate: n-Nonane	32.9		50.0		65.7	50-200			
Matrix Spike Dup (2236039-MSD1)				Source:	E208169-	03	Prepared: 0	8/31/22 Ana	alyzed: 08/31/22
Diesel Range Organics (C10-C28)	250	25.0	250	ND	100	38-132	1.10	20	
Surrogate: n-Nonane	32.1		50.0		64.2	50-200			



Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220		Project Name: Project Number: Project Manager	: 2	Red Hills Facili 21022-0001 Ashley Gioveng	•	5.07.22 S <sub>l</sub>	oill		<b>Reported:</b> 9/2/2022 9:16:52AM
		Anions	by EPA	300.0/9056	4				Analyst: RAS
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2236024-BLK1)							Prepared: 08	8/30/22 A	nalyzed: 08/31/22
Chloride	ND	20.0							
LCS (2236024-BS1)							Prepared: 08	8/30/22 A	nalyzed: 08/31/22
Chloride	239	20.0	250		95.5	90-110			
LCS Dup (2236024-BSD1)							Prepared: 08	8/30/22 A	nalyzed: 08/31/22
Chloride	240	20.0	250		95.9	90-110	0.372	20	

### QC Summary Report Comment:

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



### **Definitions and Notes**

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	09/02/22 09:16

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.



76# 3834/2

Page	of
rage	UI

Project Information 85.07.225 pill	Chain of Custody	У									Page	of
Client: Vager Francis Oil Co	Bill To		L	ab Us	e Only				TA	T	EPA P	rogram
Client: Va Ger Francis Oil Co Project: Pathills Facility fadl Project Manager: As Ney Giovenpo Address: 224 Address: 224 City, State, Zip Carls bad N M 882 Phone: 505-	Scom, Inc 45 tandpipeto arkead, Nms	Lab W	10# 10# 10#	9		mber 2000 and Metho		2D	3D	Standard	CWA	SDWA
Phone: So - 382 - 2   Email: a shley giovengo a)  Report due by: we comica (or mail: a shley we so mi	382-12(1 1.9: overso a) inc.com	8015	GRO/DRO by 8015 BTEX by 8021				NM	χ X		NM CO	State UT AZ	
Sampled Sampled Matrix Containers Sample ID	Number	DRO,	GRO, BTEX	VOC	Meta		BGDOC	BGDOC			Remarks	
1659 08/23 50:1 1jar CONF53-31	1 1						X					
1658 08/23 Soil 1jar CONFS4-3'	2						X					
	3						X					
1710 08/23 Soil Ijar CONF55-3'	4						X					
· · · · · · · · · · · · · · · · · · ·												
			+				-					
Additional Instructions: Preserved on ice; Plea	secc shar.h	arv	este	r,	cole	. lourt	con	, 1	sra	e1. es-	irella	
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with o date or time of collection is considered fraud and may be grounds for legal action.  Sample	led by:	e location								eived on ice the day °C on subsequent da		ed or received
Relinquished by: (Signature)  Refered by: (Signature)  Refered by: (Signature)  Refered by: (Signature)	Date 8-25	2	11:00	)	Receiv	ed on ice:		ab Us	se Onl	У		
8 2900 - 15 Olive	8/3/2	30"	)():(	OC	T1		<u>T2</u>			<u></u>		
Received by: (Signature)  Date  Time  Received by: (Signature)	gnature) Date	Ti	me		AVG Te	emp °C_	+					
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other						ic, <b>ag</b> - amb						
Note: Samples are discarded 30 days after results are reported unless other arrangements ar samples is applicable only to those samples received by the laboratory with this COC. The lial							ent exp	ense.	The re	port for the ana	llysis of the	above



envirotech Inc.

Printed: 8/31/2022 10:58:15AM

### **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:	08/31/22	10:00	Work Order ID:	E208169
Phone: (505) 382-1211	Date Logged In:	08/30/22	08:31	Logged In By:	Caitlin Christian
Email: ashley.giovengo@wescominc.com	Due Date:	09/05/22	17:00 (3 day TAT)		
Chain of Custody (COC)					
1. Does the sample ID match the COC?		Yes			
2. Does the number of samples per sampling site loca	tion match the COC	Yes			
3. Were samples dropped off by client or carrier?		Yes	Carrier: <u>UPS</u>	<u>s</u>	
4. Was the COC complete, i.e., signatures, dates/times	s, requested analyses?	Yes			
5. Were all samples received within holding time? Note: Analysis, such as pH which should be con	duated in the field	Yes			
i.e, 15 minute hold time, are not included in this	·			Comment	ts/Resolution
Sample Turn Around Time (TAT)					
6. Did the COC indicate standard TAT, or Expedited	ΓAT?	Yes			
Sample Cooler					
7. Was a sample cooler received?		Yes			
8. If yes, was cooler received in good condition?		Yes			
9. Was the sample(s) received intact, i.e., not broken?		Yes			
10. Were custody/security seals present?		No			
11. If yes, were custody/security seals intact?		NA			
12. Was the sample received on ice? If yes, the recorded tem	p is 4°C, i.e., 6°±2°C	Yes			
Note: Thermal preservation is not required, if sa	. , ,	103			
minutes of sampling					
13. If no visible ice, record the temperature. Actual	sample temperature: 4°0	<u>C</u>			
Sample Container					
14. Are aqueous VOC samples present?		No			
15. Are VOC samples collected in VOA Vials?		NA			
16. Is the head space less than 6-8 mm (pea sized or le	ess)?	NA			
17. Was a trip blank (TB) included for VOC analyses	?	NA			
18. Are non-VOC samples collected in the correct con	ntainers?	Yes			
19. Is the appropriate volume/weight or number of sample	e containers collected?	Yes			
Field Label					
20. Were field sample labels filled out with the minim	um information:				
Sample ID?		Yes			
Date/Time Collected?		Yes			
Collectors name?		No			
<ul><li>Sample Preservation</li><li>21. Does the COC or field labels indicate the samples</li></ul>	were preserved?	No			
•	were preserved:	NA			
<ul><li>22. Are sample(s) correctly preserved?</li><li>24. Is lab filteration required and/or requested for diss</li></ul>	colved metals?	No			
•	orved metars:	140			
Multiphase Sample Matrix	14ih9	2.7			
26. Does the sample have more than one phase, i.e., n	-	No			
27. If yes, does the COC specify which phase(s) is to	be analyzed?	NA			
Subcontract Laboratory					
28. Are samples required to get sent to a subcontract l	•	No			
29. Was a subcontract laboratory specified by the clie	nt and if so who?	NA	Subcontract Lab: N	NA	
Client Instruction					

Date

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

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: Red Hills Facility Pad 1 05.07.22

Spill

Work Order: E208170

Job Number: 21022-0001

Received: 8/31/2022

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 9/2/22

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

Date Reported: 9/2/22

Ashley Giovengo 1224 Standpipe Rd Carlsbad, NM 88220

Project Name: Red Hills Facility Pad 1 05.07.22 Spill

Workorder: E208170

Date Received: 8/31/2022 10:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/31/2022 10:00:00AM, under the Project Name: Red Hills Facility Pad 1 05.07.22 Spill.

The analytical test results summarized in this report with the Project Name: Red Hills Facility Pad 1 05.07.22 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

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labadmin@envirotech-inc.com

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Southern New Mexico Area Lynn Jarboe

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Office: 505-421-LABS(5227)

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ljarboe@envirotech-inc.com

West Texas Midland/Odessa Area Rayny Hagan Technical Representative

Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com



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### Sample Summary

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	Donoutoda
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	09/02/22 09:17

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
SS10 - 0'	E208170-01A Soil	08/23/22	08/31/22	Glass Jar, 4 oz.
SS11 - 0'	E208170-02A Soil	08/23/22	08/31/22	Glass Jar, 4 oz.
SS12 - 0'	E208170-03A Soil	08/23/22	08/31/22	Glass Jar, 4 oz.
SS13 - 0'	F208170-04A Soil	08/23/22	08/31/22	Glass Jar. 4 oz.



Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 1 05.07.22 Spill1224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo9/2/2022 9:17:55AM

SS10 - 0' E208170-01

		Reporting					
Analyte	Result	Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst:	IY		Batch: 2236035
Benzene	ND	0.0250	1		08/31/22	09/01/22	
Ethylbenzene	ND	0.0250	1		08/31/22	09/01/22	
Toluene	ND	0.0250	1		08/31/22	09/01/22	
o-Xylene	ND	0.0250	1		08/31/22	09/01/22	
p,m-Xylene	ND	0.0500	1		08/31/22	09/01/22	
Total Xylenes	ND	0.0250	1		08/31/22	09/01/22	
Surrogate: Bromofluorobenzene		104 %	70-130		08/31/22	09/01/22	
Surrogate: 1,2-Dichloroethane-d4		95.9 %	70-130		08/31/22	09/01/22	
Surrogate: Toluene-d8		101 %	70-130		08/31/22	09/01/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	I	Analyst:	IY		Batch: 2236035
Gasoline Range Organics (C6-C10)	ND	20.0	1		08/31/22	09/01/22	
Surrogate: Bromofluorobenzene		104 %	70-130		08/31/22	09/01/22	
Surrogate: 1,2-Dichloroethane-d4		95.9 %	70-130		08/31/22	09/01/22	
Surrogate: Toluene-d8		101 %	70-130		08/31/22	09/01/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst:	JL		Batch: 2236033
Diesel Range Organics (C10-C28)	ND	25.0	1		08/31/22	08/31/22	
Oil Range Organics (C28-C36)	ND	50.0	1		08/31/22	08/31/22	
Surrogate: n-Nonane		90.1 %	50-200		08/31/22	08/31/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst:	RAS		Batch: 2236023
Chloride	ND	20.0	1		08/30/22	08/31/22	· ·

Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 1 05.07.22 Spill1224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo9/2/20229:17:55AM

SS11 - 0' E208170-02

		1200170-02				
Aughto	Result	Reporting Limit	Dilu	tion Down	and Am-l	d Notes
Analyte	Resuit	Limit	Dilu	tion Prepa	ared Analyze	d Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	I	Analyst: IY		Batch: 2236035
Benzene	ND	0.0250	1	08/31	1/22 09/01/22	2
Ethylbenzene	ND	0.0250	1	08/31	1/22 09/01/22	2
Toluene	ND	0.0250	1	08/31	1/22 09/01/22	2
o-Xylene	ND	0.0250	1	08/31	1/22 09/01/22	2
p,m-Xylene	ND	0.0500	1	08/31	1/22 09/01/22	2
Total Xylenes	ND	0.0250	1	08/31	1/22 09/01/22	2
Surrogate: Bromofluorobenzene		101 %	70-130	08/3	1/22 09/01/22	?
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130	08/3	1/22 09/01/22	?
Surrogate: Toluene-d8		103 %	70-130	08/3	1/22 09/01/22	?
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: IY		Batch: 2236035
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/31	1/22 09/01/22	2
Surrogate: Bromofluorobenzene		101 %	70-130	08/3	1/22 09/01/22	?
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130	08/3	1/22 09/01/22	?
Surrogate: Toluene-d8		103 %	70-130	08/3	1/22 09/01/22	?
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	I	Analyst: JL		Batch: 2236033
Diesel Range Organics (C10-C28)	ND	25.0	1	08/31	1/22 09/01/22	2
Oil Range Organics (C28-C36)	ND	50.0	1	08/31	1/22 09/01/22	2
Surrogate: n-Nonane		94.0 %	50-200	08/3	1/22 09/01/22	?
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: RAS		Batch: 2236023
Chloride	ND	20.0	1	08/30	0/22 08/31/22	2



Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 1 05.07.22 Spill1224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo9/2/20229:17:55AM

SS12 - 0' E208170-03

		11200170 00				
Austra	Dl/	Reporting Limit		D 1	A	N-4
Analyte	Result	Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Α	Analyst: IY		Batch: 2236035
Benzene	ND	0.0250	1	08/31/22	09/01/22	
Ethylbenzene	ND	0.0250	1	08/31/22	09/01/22	
Toluene	ND	0.0250	1	08/31/22	09/01/22	
o-Xylene	ND	0.0250	1	08/31/22	09/01/22	
p,m-Xylene	ND	0.0500	1	08/31/22	09/01/22	
Total Xylenes	ND	0.0250	1	08/31/22	09/01/22	
Surrogate: Bromofluorobenzene		102 %	70-130	08/31/22	09/01/22	
Surrogate: 1,2-Dichloroethane-d4		95.3 %	70-130	08/31/22	09/01/22	
Surrogate: Toluene-d8		104 %	70-130	08/31/22	09/01/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	А	Analyst: IY		Batch: 2236035
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/31/22	09/01/22	
Surrogate: Bromofluorobenzene		102 %	70-130	08/31/22	09/01/22	
Surrogate: 1,2-Dichloroethane-d4		95.3 %	70-130	08/31/22	09/01/22	
Surrogate: Toluene-d8		104 %	70-130	08/31/22	09/01/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Α	Analyst: JL		Batch: 2236033
Diesel Range Organics (C10-C28)	ND	25.0	1	08/31/22	09/01/22	_
Oil Range Organics (C28-C36)	ND	50.0	1	08/31/22	09/01/22	
Surrogate: n-Nonane		89.5 %	50-200	08/31/22	09/01/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Α	Analyst: RAS		Batch: 2236023
Chloride	ND	20.0	1	08/30/22	08/31/22	



Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 1 05.07.22 Spill1224 Standpipe RdProject Number:21022-0001Reprint Pad 1 05.07.22 SpillCarlsbad NM, 88220Project Manager:Ashley Giovengo9/2/20229:17:55AM

### SS13 - 0' E208170-04

	E200170-04					
Result	Reporting	Dilu	ution	Prepared	Analyzed	Notes
Result	Limit	Dilu	ition	Trepared	Anaryzeu	Notes
mg/kg	mg/kg		Analyst: 1	ΙΥ		Batch: 2236035
ND	0.0250	1	1	08/31/22	09/01/22	
ND	0.0250	1	1	08/31/22	09/01/22	
ND	0.0250	1	1	08/31/22	09/01/22	
ND	0.0250	1	1	08/31/22	09/01/22	
ND	0.0500	1	1	08/31/22	09/01/22	
ND	0.0250	1	1	08/31/22	09/01/22	
	100 %	70-130		08/31/22	09/01/22	
	95.5 %	70-130		08/31/22	09/01/22	
	100 %	70-130		08/31/22	09/01/22	
mg/kg	mg/kg		Analyst: 1	ΙΥ		Batch: 2236035
ND	20.0	1	l	08/31/22	09/01/22	
	100 %	70-130		08/31/22	09/01/22	
	95.5 %	70-130		08/31/22	09/01/22	
	100 %	70-130		08/31/22	09/01/22	
mg/kg	mg/kg		Analyst: .	JL		Batch: 2236033
ND	25.0	1	1	08/31/22	09/01/22	
ND	50.0	1	1	08/31/22	09/01/22	
	91.4 %	50-200		08/31/22	09/01/22	
mg/kg	mg/kg		Analyst: 1	RAS		Batch: 2236023
ND	20.0	1	1	08/30/22	08/31/22	
	ND Mg/kg ND Mg/kg	Result         Limit           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           IOO %         95.5 %           100 %         95.5 %           100 %         95.5 %           100 %         95.5 %           100 %         95.5 %           100 %         95.5 %           100 %         95.5 %           100 %         95.5 %           100 %         95.5 %           100 %         95.5 %           100 %         100 %           mg/kg         mg/kg           ND         25.0           ND         50.0           91.4 %         mg/kg	Result         Limit         Dilk           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           100 %         70-130           95.5 %         70-130           100 %         70-130           mg/kg         mg/kg           ND         20.0           100 %         70-130           95.5 %         70-130           100 %         70-130           mg/kg         mg/kg           ND         25.0           ND         50.0           91.4 %         50-200           mg/kg         mg/kg	Result         Limit         Dilution           mg/kg         mg/kg         Analyst: 1           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0500         1           ND         0.0250         1           ND         70-130         1           95.5 %         70-130         70-130           mg/kg         mg/kg         Analyst: 1           ND         20.0         1           100 %         70-130         1           y5.5 %         70-130         1           mg/kg         mg/kg         Analyst: 1           ND         25.0         1           ND         50.0         1           91.4 %         50-200           mg/kg         Mg/kg         Analyst: 1	Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: IY           ND         0.0250         1         08/31/22           ND         0.0250         1         08/31/22           ND         0.0250         1         08/31/22           ND         0.0250         1         08/31/22           ND         0.0500         1         08/31/22           ND         0.0250         1         08/31/22           ND         70-130         08/31/22           95.5 %         70-130         08/31/22           100 %         70-130         08/31/22           mg/kg         mg/kg         Analyst: IY           ND         20.0         1         08/31/22           100 %         70-130         08/31/22           100 %         70-130         08/31/22           100 %         70-130         08/31/22           100 %         70-130         08/31/22           100 %         70-130         08/31/22           ND         25.0         1         08/31/22           ND         50.0         1         08/31/22           91.4 %	Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: IY           ND         0.0250         1         08/31/22         09/01/22           ND         0.0500         1         08/31/22         09/01/22           ND         0.0250         1         08/31/22         09/01/22           ND         0.0250         1         08/31/22         09/01/22           95.5 %         70-130         08/31/22         09/01/22           mg/kg         mg/kg         Analyst: IY           ND         20.0         1         08/31/22         09/01/22           mg/kg         mg/kg         Analyst: IV           ND         20.0         1         08/31/22         09/01/22           mg/kg         mg/kg         Analyst: JL           ND         25.0         1         08/31/22         09/01/22           ND         50.0         1



Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 1 05.07.22 SpillReported:1224 Standpipe RdProject Number:21022-0001Carlsbad NM, 88220Project Manager:Ashley Giovengo9/2/20229:17:55AM

Carlsbad NM, 88220		Project Manager	:: As	shley Gioveng	0			9/2	2/2022 9:17:55AM
	V	olatile Organi	ic Compo	unds by EP	A 82601	3			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 (2236035-BLK1)							Prepared: 0	8/31/22 Anal	yzed: 08/31/22
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.495		0.500		98.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.7	70-130			
Surrogate: Toluene-d8	0.505		0.500		101	70-130			
LCS (2236035-BS1)							Prepared: 0	8/31/22 Anal	yzed: 08/31/22
Benzene	2.14	0.0250	2.50		85.7	70-130			
Ethylbenzene	2.21	0.0250	2.50		88.4	70-130			
Toluene	2.12	0.0250	2.50		84.6	70-130			
o-Xylene	2.09	0.0250	2.50		83.5	70-130			
p,m-Xylene	4.09	0.0500	5.00		81.9	70-130			
Total Xylenes	6.18	0.0250	7.50		82.4	70-130			
Surrogate: Bromofluorobenzene	0.503		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.503		0.500		101	70-130			
Surrogate: Toluene-d8	0.507		0.500		101	70-130			
LCS Dup (2236035-BSD1)							Prepared: 0	8/31/22 Anal	yzed: 08/31/22
Benzene	1.97	0.0250	2.50		78.9	70-130	8.36	23	
Ethylbenzene	2.13	0.0250	2.50		85.3	70-130	3.59	27	
Toluene	2.03	0.0250	2.50		81.3	70-130	4.00	24	
o-Xylene	2.00	0.0250	2.50		80.1	70-130	4.18	27	
p,m-Xylene	3.93	0.0500	5.00		78.7	70-130	3.96	27	
Total Xylenes	5.94	0.0250	7.50		79.2	70-130	4.04	27	
			0.500		102				

0.500

0.500

99.5

70-130

70-130

Surrogate: 1,2-Dichloroethane-d4

Surrogate: Toluene-d8

0.498

0.515

Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 1 05.07.22 SpillReported:1224 Standpipe RdProject Number:21022-0001Carlsbad NM, 88220Project Manager:Ashley Giovengo9/2/20229:17:55AM

Nonhalogenated	Organics by	· EPA	. 8015D -	GRO

Analyst: IY

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

Blank (2236035-BLK1)						Prepared: 08	3/31/22 Analy	zed: 08/31/22
Gasoline Range Organics (C6-C10)	ND	20.0						
Surrogate: Bromofluorobenzene	0.495		0.500	98.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500	97.7	70-130			
Surrogate: Toluene-d8	0.505		0.500	101	70-130			
LCS (2236035-BS2)						Prepared: 08	3/31/22 Analy	zed: 08/31/22
Gasoline Range Organics (C6-C10)	55.6	20.0	50.0	111	70-130			
Surrogate: Bromofluorobenzene	0.492		0.500	98.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.498		0.500	99.5	70-130			
Surrogate: Toluene-d8	0.508		0.500	102	70-130			
LCS Dup (2236035-BSD2)						Prepared: 08	3/31/22 Analy	zed: 08/31/22
Gasoline Range Organics (C6-C10)	54.2	20.0	50.0	108	70-130	2.64	20	
Surrogate: Bromofluorobenzene	0.502		0.500	100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500	95.4	70-130			
Surrogate: Toluene-d8	0.525		0.500	105	70-130			



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 1 05.07.22 Spill	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/2/2022 9:17:55AM

Carlsbad NM, 88220		Project Manage	r: As	hley Gioveng	go				9/2/2022 9:17:55AM
	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 (2236033-BLK1)							Prepared: 0	8/31/22 Ar	nalyzed: 08/31/22
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	38.6		50.0		77.2	50-200			
LCS (2236033-BS1)							Prepared: 0	8/31/22 Ar	nalyzed: 08/31/22
Diesel Range Organics (C10-C28)	227	25.0	250		90.6	38-132			
Surrogate: n-Nonane	42.3		50.0		84.5	50-200			
Matrix Spike (2236033-MS1)				Source:	E208167-	04	Prepared: 0	8/31/22 Ar	nalyzed: 08/31/22
Diesel Range Organics (C10-C28)	234	25.0	250	ND	93.8	38-132			
Surrogate: n-Nonane	29.8		50.0		59.6	50-200			
Matrix Spike Dup (2236033-MSD1)				Source:	E208167-	04	Prepared: 0	8/31/22 Ar	nalyzed: 08/31/22
Diesel Range Organics (C10-C28)	234	25.0	250	ND	93.6	38-132	0.139	20	
Surrogate: n-Nonane	31.5		50.0		63.0	50-200			

Kaiser Francis Oil Company 1224 Standpipe Rd		Project Name: Project Number:	: 2	Red Hills Facili 21022-0001	•	5.07.22 S <sub>1</sub>	pill		Reported:
Carlsbad NM, 88220		Project Manager		Ashley Gioveng					9/2/2022 9:17:55AM
		Anions	by EPA	<b>300.0/9056</b> A	4				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 (2236023-BLK1)							Prepared: 08	8/30/22 A	nalyzed: 08/31/22
Chloride	ND	20.0							
LCS (2236023-BS1)							Prepared: 08	8/30/22 A	nalyzed: 08/31/22
Chloride	238	20.0	250		95.4	90-110			
LCS Dup (2236023-BSD1)							Prepared: 08	8/30/22 A	nalyzed: 08/31/22
Chloride	240	20.0	250		95.9	90-110	0.585	20	

### QC Summary Report Comment:

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



### **Definitions and Notes**

Kaiser Francis Oil Company Project Name: Red Hills Facility Pad 1 05.07.22 Spill

1224 Standpipe Rd Project Number: 21022-0001 Reported:

Carlsbad NM, 88220 Project Manager: Ashley Giovengo 09/02/22 09:17

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.



Client: Vaiser Francis Dilco 105.07.72 Spill Bill To													
Client: Vaiser Francis Dilco 10 Bill To				Lab	b Us	e Only				TA	T	EPA P	rogram
Project: Carled Hills Facility Red Attention: Wescom Address: 274 Stand River State Zip Carls had		Lab	WO#			Job Nu	mber	1D	2D	3D	Standard	CWA	SDWA
Project Manager: Ashley (7:0) Address: 224 Stande: Address: 1224 Stande: Peter City, State, Zip Carls bad	Pe Rd	Ea	OR	14	2	0100	9-00	1			X		
City, State, Zip Cay s bad Nm 88720 Phone: 505-382-12	WHISS	12	-0		-	Analysis	and Meth	od		1 1			RCRA
Sity, state, Elp Car la Data All John Sity, State, Elp Car la Data All			2									State	
Phone: 505-382-1211 Email: ashley. giovergo a) wescominc. com wesc	300	801	801	_		c	9				NM CO	UT AZ	TXI
Report due by:	om	O by	O by	802	3260	010		Σ	×		X	01 7.2	177
Time Date Matrix No. of Containers Sample ID	Lab Number	DRO/OF	GRO/DR	BTEX by 8021	VOC by 8260	Metals 6010		BGDOC	BGDOC			Remarks	
1040 08/23 Soil 1jar 5510-0'	1							X					
1044 08/23 Soil 1jar 5511-0'	a							X					
1102 08/23 Soil 1jar 5512-0'	3							X	6				
1105 08/23 Soil Liar 5513 -0'	4							Y	4				
Additional Instructions: Preserved on ice; please cc s	har. V	rar	Ve	ste	r,	(8)	e.bui	to	n,	Isr	ael. co	strell	a
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or interdipnally mislab date or time of collection is considered fraud and may be grounds for legal action.	elling the sample	locatio	on,			Samples re	quiring therma	l preserv np above	vation m	ust be rece ess than 6	eived on ice the day °C on subsequent da	they are sampl	ed or receive
Relinquished by: (Signature)  Day 20 . Time Received by: (Signature)  10 :30am  Received by: (Signature)	Sep S	10	Time	1.	11	Receiv	ed on ice:		Lab U	lse Onl N	У		
Relinquished by: (Signature)  Date  Time  Received by: (Signature)	831	22	Time	00	)	T1		T2			T3		
Relinquished by: (Signature)  Date  Time  Received by: (Signature)	Date		Time			AVG T	emp °C_	4					
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other	Container	Туре	: g - g	lass, p			ic, ag - am	ber gla	ass, v	- VOA			
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardot											port for the ana	alysis of the	above



Printed: 8/31/2022 10:59:45AM

### **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:	08/31/22	10:00		Work Order ID:	E208170
Phone:	(505) 382-1211	Date Logged In:	08/30/22	08:33		Logged In By:	Caitlin Christian
Email:	ashley.giovengo@wescominc.com	Due Date:	09/05/22	17:00 (3 day TAT)			
Chain of	Custody (COC)						
	he sample ID match the COC?		Yes				
	he number of samples per sampling site location ma	tch the COC	Yes				
3. Were s	samples dropped off by client or carrier?		Yes	Carrier: U	IPS		
4. Was th	ne COC complete, i.e., signatures, dates/times, reques	sted analyses?	Yes	<u> </u>	<u></u>		
5. Were a	all samples received within holding time?	·	Yes				
	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssis.			,		Comment	s/Resolution
Sample '	<u> Furn Around Time (TAT)</u>						
6. Did th	e COC indicate standard TAT, or Expedited TAT?		Yes				
Sample (							
	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was th	ne sample(s) received intact, i.e., not broken?		Yes				
10. Were	custody/security seals present?		No				
11. If yes	s, were custody/security seals intact?		NA				
	ne 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. 4	<u>c</u>				
	Container     queous VOC samples present?		No				
	VOC samples collected in VOA Vials?		NA				
	e head space less than 6-8 mm (pea sized or less)?		NA				
	a trip blank (TB) included for VOC analyses?		NA				
	non-VOC samples collected in the correct containers	9	Yes				
	appropriate volume/weight or number of sample contain		Yes				
Field La		ners conceicu.	103				
	field sample labels filled out with the minimum info	ormation:					
	Sample ID?	mation.	Yes				
	Date/Time Collected?		Yes	L			
(	Collectors name?		No				
Sample 1	<u>Preservation</u>						
21. Does	the COC or field labels indicate the samples were pr	reserved?	No				
22. Are s	sample(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved n	netals?	No				
Multiph	ase Sample Matrix						
26. Does	the sample have more than one phase, i.e., multipha	se?	No				
27. If yes	s, does the COC specify which phase(s) is to be analy	yzed?	NA				
Subcont	ract Laboratory						
	namples required to get sent to a subcontract laborato	rv?	No				
	a subcontract laboratory specified by the client and it	-	NA	Subcontract Lab	· NA		
	nstruction			Succentract Eac	,, 1 111		
<u>CHERT</u>	nstruction .						

Date

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

## ATTACHMENT F

Confirmation Sampling Variance Request

# Received by OCD: 9/9/2022 1:54:12 PM

### **Ashley Giovengo**

From: Sent: Aaron Daniels <aarond@kfoc.net> Wednesday, May 18, 2022 1:45 PM

To:

Ashley Giovengo

Subject:

FW: [EXTERNAL] Sampling Variance - Red Hills Facility Pad 1 - NAPP2212768697

FYI

From: Morgan, Crisha A <camorgan@blm.gov>
Sent: Wednesday, May 18, 2022 2:41 PM
To: Aaron Daniels <aarond@kfoc.net>
Cc: Hutton Andrew <Huttona@kfoc.net>

Subject: Re: [EXTERNAL] Sampling Variance - Red Hills Facility Pad 1 - NAPP2212768697

OK! Consider this BLM's approval for your requested variance for 500 sq ft off pad, and 400 Sq ft on pad.

Please let me now if you need anything else!

Crisha A. Morgan | Certified - Environmental Protection Specialist | Program Officer | COR | Spills Coordinator | Orphaned Well POC Lead Bureau of Land Management | Carlsbad Field Office 620 E. Greene Street Carlsbad, NM 88220 Cell 575-200-8648 | Office 575-234-5987 | camorgan@blm.gov



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From: Aaron Daniels <aarond@kfoc.net>
Sent: Wednesday, May 18, 2022 1:25 PM
To: Morgan, Crisha A <a href="mailto:camorgan@blm.gov">camorgan@blm.gov</a>
Cc: Hutton Andrew <a href="mailto:huttona@kfoc.net">Huttona@kfoc.net</a>

Subject: FW: [EXTERNAL] Sampling Variance - Red Hills Facility Pad 1 - NAPP2212768697

Crisha - forwarding per your request.

Please note the on pad change from NMOCD.

Thanks, Aaron From: Nobui, Jennifer, EMNRD < Jennifer. Nobui@state.nm.us>

Sent: Wednesday, May 18, 2022 1:00 PM

To: Aaron Daniels <aarond@kfoc.net>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Harimon, Jocelyn,

EMNRD < <u>Jocelyn.Harimon@state.nm.us</u>>; Bratcher, Mike, EMNRD < <u>mike.bratcher@state.nm.us</u>> Cc: Hutton Andrew < <u>Huttona@kfoc.net</u>>; Billings, Bradford, EMNRD < <u>Bradford.Billings@state.nm.us</u>>

Subject: RE: [EXTERNAL] Sampling Variance - Red Hills Facility Pad 1 - NAPP2212768697

Hello Aaron

OCD will approve your requested variance for 500 sq ft off pad, but on pad you will need to sample every 400 sq ft.

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,

Received by OCD: 9/9/2022 1:54:12 PM

Jennifer Nobui

## ATTACHMENT G

48-Hour Confirmation Sampling Notification Emails

From: Ashley Giovengo

To: Bratcher, Mike, EMNRD; Hensley, Chad, EMNRD; Billings, Bradford, EMNRD; Hamlet, Robert, EMNRD; Nobui,

Jennifer, EMNRD; Velez, Nelson, EMNRD

Cc: <u>EHSDB</u>; <u>Aaron Daniels</u>; <u>Hutton Andrew</u>; <u>Shar Harvester</u>; <u>Cole Burton</u>

Subject: 48-Hour Confirmation Sampling Notification - Red Hills Facility Pad 1 – nAPP2211549633

**Date:** Monday, May 16, 2022 10:37:13 PM

Hello All,

A 48-hour confirmation sampling notification was sent in on 05/11/2022 for confirmation sampling at the Red Hills Facility Pad 5 - nAPP221276897. The correct location was the Red Hills Facility Pad 1 - nAPP2211549633.

We intend to take confirmation samples at the Red Hills Facility Pad 5 - nAPP221276897 starting on (5/18/22 thru 05/20/22).

Confirmation samples were collected at the Red Hills Facility Pad 1 - nAPP2211549633 on (05/13/2022). I apologize for any confusion this may have caused.

Please let us know if you plan to be onsite to oversee this sampling event.

Thanks,

Ashley Giovengo, Environmental Manager - Permian O (218) 724-1322 | C (505) 382-1211

Wescomlnc.com | ashley.giovengo@Wescomlnc.com

"I am in charge of my own safety."



Minnesota | North Dakota | New Mexico | Wisconsin

From: <u>Cole Burton</u>

To: "OCD.Enviro@state.nm.us"

 Cc:
 Ashley Giovengo; Shar Harvester; Israel Estrella; "Hutton Andrew"; Aaron Daniels

 Subject:
 48-Hour Confirmation Sampling Notification - Red Hills Facility Pad 1 - nAPP2212768697

**Date:** Tuesday, July 5, 2022 10:34:00 AM

Hello All,

We intend to take confirmation samples at the Red Hills Facility Pad 1-nAPP2212768697 starting on (07/08/22 thru 07/11/22).

Please let us know if you plan to be onsite to oversee this sampling event.

Thanks,

**Cole Burton**, Environmental Field Technician **O** (218) 724-1322 | **C** (505) 205-0455

WescomInc.com | cole.burton@WescomInc.com

### **Ashley Giovengo**

From: Cole Burton

Sent: Monday, July 11, 2022 7:24 AM

To: OCD Enviro

Cc: Ashley Giovengo; Shar Harvester; Israel Estrella; Hutton Andrew; Aaron Daniels

Subject: 48-Hour Confirmation Sampling Notification - Red Hills Facility Pad 1 -

nAPP2212768697

Please extend the confirmation sample period for this location (Red Hills Facility Pad 1 - nAPP2212768697) through Friday (07/11/22 - 07/15/22).

Thanks,

Received by OCD: 9/9/2022 1:54:12 PM

Cole Burton, Environmental Field Technician

O (218) 724-1322 | C (505) 205-0455

WescomInc.com | cole.burton@WescomInc.com

### **Ashley Giovengo**

From: Ashley Giovengo

Tuesday, July 19, 2022 1:39 PM Sent:

To: OCD Enviro

Shar Harvester; Israel Estrella; Hutton Andrew; Aaron Daniels; Cole Burton Cc: Subject:

RE: 48-Hour Confirmation Sampling Notification - Red Hills Facility Pad 1 -

nAPP2212768697

Hello,

Please extend this confirmation sampling notification though 07/20/2022.

Thanks,

Ashley Giovengo, Environmental Manager - Permian

O (218) 724-1322 | C (505) 382-1211

WescomInc.com | ashley.giovengo@WescomInc.com

"I am in charge of my own safety."

From: Cole Burton <cole.burton@wescominc.com>

Sent: Monday, July 11, 2022 7:24 AM

To: OCD Enviro <ocd.enviro@state.nm.us>

Cc: Ashley Giovengo <ashley.giovengo@wescominc.com>; Shar Harvester <Shar.Harvester@WescomInc.com>; Israel Estrella < Israel. Estrella @wescominc.com>; Hutton Andrew < huttona@kfoc.net>; Aaron Daniels < aarond@kfoc.net>

Subject: 48-Hour Confirmation Sampling Notification - Red Hills Facility Pad 1 - nAPP2212768697

Please extend the confirmation sample period for this location (Red Hills Facility Pad 1 - nAPP2212768697) through Friday (07/11/22 - 07/15/22).

Thanks,

Cole Burton, Environmental Field Technician

O (218) 724-1322 | C (505) 205-0455

WescomInc.com | cole.burton@WescomInc.com

# Received by OCD: 9/9/2022 1:54:12 PM

### **Ashley Giovengo**

From: Ashley Giovengo

Thursday, August 11, 2022 12:53 PM Sent:

OCD.Enviro@state.nm.us To:

Shar Harvester; Cole Burton; Israel Estrella; Hutton Andrew; Aaron Daniels Cc: 48-Hour Confirmation Sampling Notification - Red Hills Facility Pad 1 -Subject:

nAPP2212768697

Good afternoon,

We intend to take confirmation samples at the (Red Hills Facility Pad 1 - nAPP2212768697) starting on Monday (08/15/2022) through Wednesday (08/17/2022).

Please let us know if you plan to be onsite to oversee this sampling event.

Thanks,

Ashley Giovengo, Environmental Manager - Permian

O (218) 724-1322 | C (505) 382-1211

WescomInc.com | ashley.giovengo@WescomInc.com

"I am in charge of my own safety."

Released to Imaging: 9/14/2022 11:01:04 AM

### **Ashley Giovengo**

From: Israel Estrella

Sent: Thursday, August 18, 2022 7:15 AM

To: Ashley Giovengo; OCD.Enviro@state.nm.us

Cc: Shar Harvester; Cole Burton; Hutton Andrew; Aaron Daniels

Subject: RE: 48-Hour Confirmation Sampling Notification - Red Hills Facility Pad 1 -

nAPP2212768697

Hello,

Please extend this sampling event at (Red Hills Facility Pad 1 – nAP2212768697) until Friday (08/19/2022).

Thank You.

Israel Estrella, Environmental Field Technician

O (218) 724-1322 | C (575) 361-2630

WescomInc.com | israel.estrella@WescomInc.com

"I am in charge of my own safety."

From: Ashley Giovengo <ashley.giovengo@wescominc.com>

Sent: Thursday, August 11, 2022 12:53 PM

To: OCD.Enviro@state.nm.us

Cc: Shar Harvester <Shar.Harvester@WescomInc.com>; Cole Burton <cole.burton@wescominc.com>; Israel Estrella

<Israel.Estrella@wescominc.com>; Hutton Andrew <Huttona@kfoc.net>; Aaron Daniels <aarond@kfoc.net>

Subject: 48-Hour Confirmation Sampling Notification - Red Hills Facility Pad 1 - nAPP2212768697

Good afternoon,

We intend to take confirmation samples at the (Red Hills Facility Pad 1 - nAPP2212768697) starting on Monday (08/15/2022) through Wednesday (08/17/2022).

Please let us know if you plan to be onsite to oversee this sampling event.

Thanks,

Received by OCD: 9/9/2022 1:54:12 PM

Ashley Giovengo, Environmental Manager - Permian

O (218) 724-1322 | C (505) 382-1211

WescomInc.com | ashley.giovengo@WescomInc.com

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 142080

### **CONDITIONS**

Operator:	OGRID:
KAISER-FRANCIS OIL CO	12361
PO Box 21468 Tulsa, OK 74121146	Action Number: 142080
	Action Type: [C-141] Release Corrective Action (C-141)

### CONDITIONS

Created By		Condition Date
jnobui	Deferral Request Approved.	9/14/2022