

Form C-141

Page 5

State of New Mexico  
Oil Conservation Division

Incident ID	nAPP2128846984
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 to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Hutton AndrewTitle: EHS RepresentativeSignature: Date: 09/12/2022email: huttona@kfoc.netTelephone: 918-491-4615**OCD Only**Received by: Jocelyn Harimon Date: 09/13/2022☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☒ Deferral ApprovedSignature: Robert Hamlet Date: 12/12/2022



**DEFERRAL REQUEST**

**KAISER-FRANCIS OIL COMPANY**

Created for submission to New Mexico Oil Conservation Division on 09/13/2022

**ASHLEY GIOVENGO**  
*Project Environmental Scientist*

**ENERGIZING AMERICA**

September 13, 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**

<b>COMPANY</b>	Kaiser-Francis Oil Company
<b>LOCATION</b>	Mosaic Federal 2419 WA #002H
<b>API</b>	30-015-47647
<b>PLSS</b>	Unit D Sec 24 T23S R28E
<b>GPS</b>	32.2953145, -104.0491501
<b>INCIDENT ID</b>	nAPP2128846984

**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 Mosaic Federal 2419 WA #002H (Site) located in Unit D, Section 24, Township 23 South and Range 28 East in Eddy County, New Mexico. The GPS coordinates are as follows: North 32.2953145 and West -104.0491501. Surface owner of the Site is Mosaic Potash Inc. The Site falls within New Mexico Oil Conservation Division (NMOCD), District 1 Hobbs.

On October 13, 2021, a storage container caught fire during hydraulic fracturing operations. This fire resulted in the release of approximately 50 gallons of Permalube Grease onto the caliche pad. An estimated 40 gallons of Permalube Grease was recovered. The spill impacted 10,335 square feet (sq. ft) of the caliche pad on the West side of the wellheads (see Figure1).



Wescom personnel arrived onsite on November 01, 2021, to complete horizontal and vertical delineation of the on-pad spill area. Extension requests were submitted to the NMOCD and approved on January 21, and March 8, 2022, due to the presence of flowback equipment in the spill area. The wells were temporarily shut-in to move flowback equipment to the East side of the wellheads. Remediation of the on-pad spill area began on August 29, 2022 and was completed on September 06, 2022. Confirmation samples were collected every 200 sq. ft, and contaminated soil was hauled to an approved disposal facility.

Removal of impacted soils surrounding the wellheads could not be achieved without the deconstruction of production equipment or without compromising the safety of personnel completing the excavation. The remaining contaminated soils do not pose imminent risk to human health, safety, or the environment therefore, KFOC respectfully requests deferral for the removal of soils surrounding the wellheads and other necessary production equipment 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 31 feet below ground surface (bgs) and is 0.21 miles 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)						
Mosaic Federal 2419 WA #002H — 32.295479, -104.049151						
Depth to Groundwater		Closure Criteria (unites in mg/kg)				
		Chloride * numerical limit or background, whichever is greater	TPH	GRO+DRO	BTEX	Benzene
Based on high karst potential		600	100		50	10
No water data within 0.5 mile radius		600	100		50	10
less than 50 ft bgs	31 ft	600	100		50	10
51 ft to 100 ft bgs		10000	2500	1000	50	10
greater than 100 ft bgs		20000	2500	1000	50	10
Surface Water	Yes or No	If yes, then				
< 300 feet from continuously flowing watercourse or other significant watercourse?	No					
< 200 feet from lakebed, sinkhole or playa lake	No					
Water Well or Water Source						
< 500 feet from spring or a private, domestic fresh water well used by less than 5 households for domestic or stock watering purposes?	No					
< 1000 feet from fresh water well or spring?	No					
Human and Other Areas						
< 300 feet from an occupied permanent residence, school, hospital, institution or church?	No					
Within incorporated municipal boundaries or within a defined municipal fresh water well field?	No					
< 100 feet from wetland?	No					
Within area overlying a subsurface mine?	No					
Within an unstable area?	No					
Within a 100-year floodplan?	No					

Table: Closure Criteria Statistics

## SITE ASSESSMENT AND DELINEATION

On November 01, 2021, KFOC contracted Wescom to complete delineation of the on-pad spill area. Due to the presence of flowback equipment and spill liners on location, Wescom was unable to complete delineation sampling. Wescom personnel returned to the site on September 06, 2022, to complete horizontal delineation sampling on the East and South sides of the spill area as shown in Figure 1. A total of eight samples were jarred and sent to Envirotech, Inc, for laboratory analysis and all samples were below the applicable RRALs for the Site except SS07; SS07 is located between the wellheads and the flowback equipment.

RRAL exceedances at sample location SS07 can be explained as localized surface contamination from moving flowback equipment around onsite. 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. A background sample, BG01, was collected 50 feet to the Southeast of the caliche pad, as shown in Figure 1.

## REMEDIATION ACTIVITIES

Beginning on August 29, 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 1100 cubic yards of contaminated soil from the on-pad spill area. A total of 51 composite confirmation samples were collected



over the five-day sampling and excavation period. All the confirmation samples were below the applicable RRALs for the Site (see Table 2) excepting sample CONF52 Wall, which is within the area of requested deferral .

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 Figure 2; 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.

A variance request on confirmation sampling notification emails was sent to Bradford Billings, Mike Bratcher, Robert Hamlet, Jennifer Nobui, and Nelson Velez, with the NMOC in Santa Fe, New Mexico on August 30, 2022, and was approved by Mike Bratcher on the same day; the variance request is included in Attachment G.

## REQUEST FOR DEFERRAL

On behalf of KFOC, Wescom requests to defer approximately 300 cubic yards of contaminated soil around the wellheads and associated production equipment. Deferral request is for area indicated on Figure 2 until the Mosaic Federal 2419 WA #002H Site is abandoned and reclamation activities commence based on the logic below.

- Due to the location of the contaminated soil surrounding the wellheads, it is not practical to remove for remediation. The wellheads are currently in production and would require shutting in for an extended period to remove substrate. Area of requested deferral is shown in Figure 2.
- The on-pad spill area has been horizontally and vertically delineated.
- Accessible impacted material was removed and properly disposed of at an approved facility.
- All confirmation areas and samples, outside the area of requested deferral, are below applicable RRALs for the Site.

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

## 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.** Extension Requests

**ATTACHMENT G.** Confirmation Sampling Variance Request



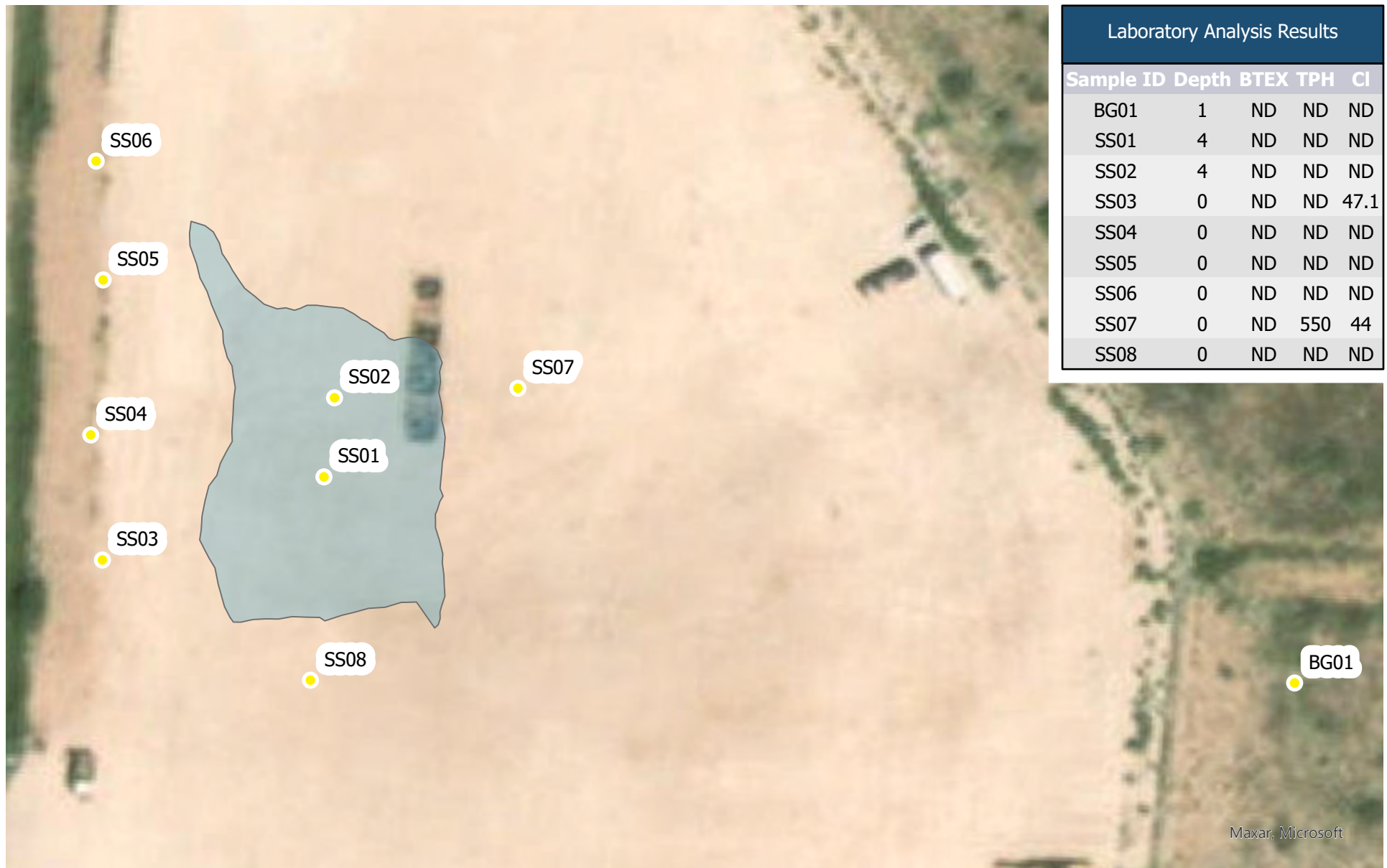
# FIGURES



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**Mosaic Federal 2419 WA #002H** | Incident ID: nAPP2128846984



## FIGURE 1. DELINEATION SAMPLING

Mosaic Federal 2419 WA #002H  
Incident ID: nAPP2128846984  
API: 30-015-47647  
GPS Coordinates: 32.2953145, -104.0491501  
Eddy County, New Mexico  
Kaiser-Francis Oil Company

Released to Imaging: 12/12/2022 10:59:44 AM

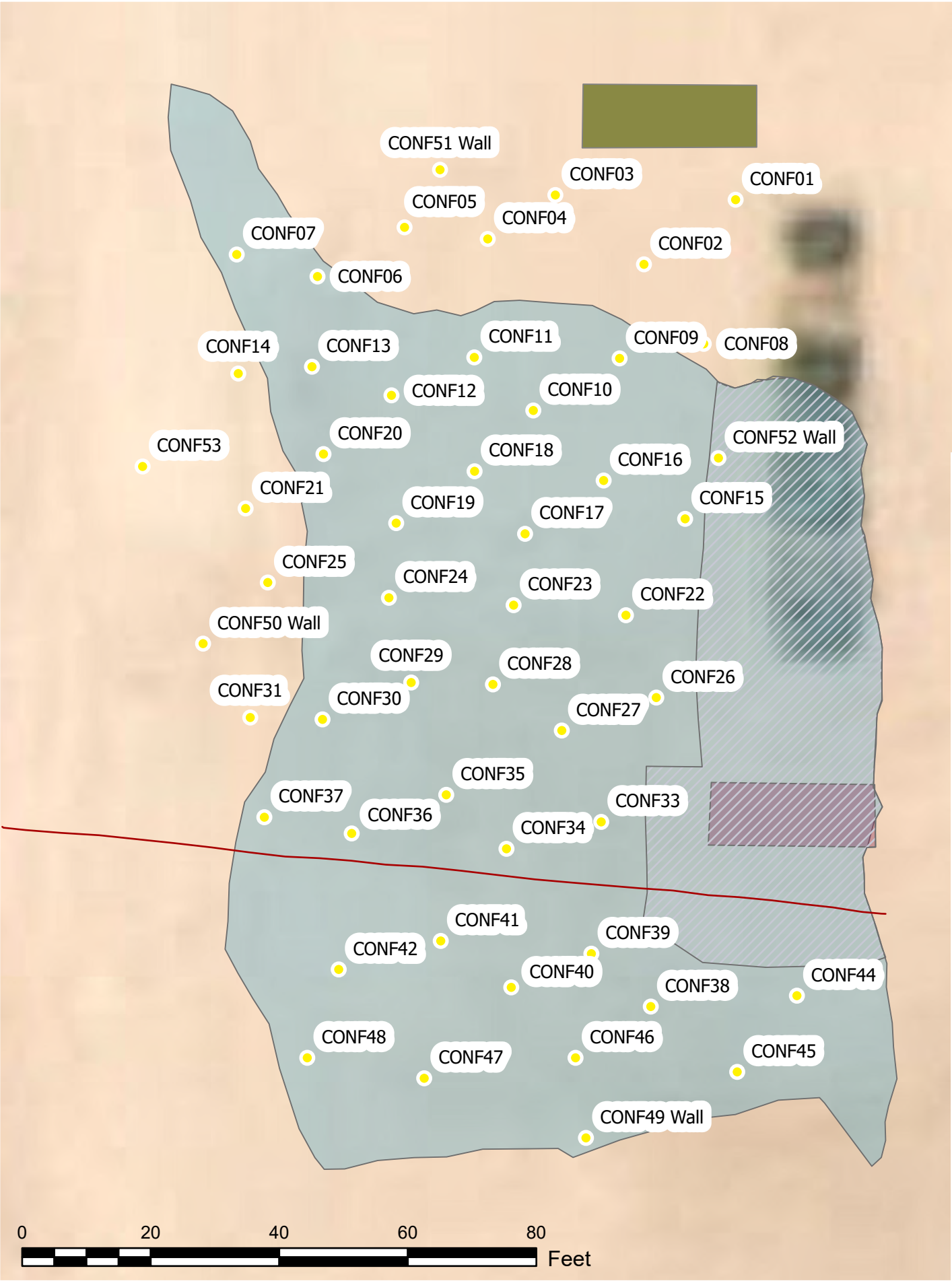


0 50 100 150 200  
Feet

### LEGEND

● Delineation Sample Points  
■ Spill Area





**FIGURE 2.**  
**CONFIRMATION SAMPLING**

Mosaic Federal 2419 WA #002H  
Incident ID: nAPP2128846984  
API: 30-015-47647  
GPS Coordinates:  
32.2953145, -104.0491501  
Eddy County, New Mexico  
Kaiser-Francis Oil Company

**LEGEND**

- Confirmation Sample Locations
- Solar Panel Electric Line
- Area of Requested Deferral
- Solar Panels
- Spill Area
- Chemical Tanks

Laboratory Analysis Results									
Sample ID	Depth	BTEX	TPH	CI	Sample ID	Depth	BTEX	TPH	CI
CONF01	2	ND	ND	404	CONF27	0.5	ND	ND	252
CONF02	1.5	ND	ND	261	CONF28	0.5	ND	103.8	419
CONF03	1.5	ND	ND	280	CONF29	1.5	ND	ND	382
CONF04	1.5	ND	ND	67.3	CONF30	2	ND	ND	397
CONF05	1.5	ND	ND	151	CONF31	1.5	ND	ND	411
CONF06	1.5	ND	ND	249	CONF33	0.5	ND	ND	439
CONF07	4	ND	ND	ND	CONF34	1	ND	ND	345
CONF08	2.5	ND	ND	463	CONF35	1	ND	ND	145
CONF09	2	ND	ND	121	CONF36	1	ND	ND	574
CONF10	1.5	ND	ND	444	CONF37	1	ND	ND	531
CONF11	1.5	ND	ND	119	CONF38	1.5	ND	ND	ND
CONF12	2.5	ND	ND	ND	CONF39	1.5	ND	ND	451
CONF13	2.5	ND	ND	ND	CONF40	1.5	ND	ND	371
CONF14	2.5	ND	ND	23	CONF41	1	ND	ND	506
CONF15	2.5	ND	ND	184	CONF42	1	ND	ND	469
CONF16	2	ND	ND	ND	CONF44	1.5	ND	ND	131
CONF17	2	ND	ND	ND	CONF45	1.5	ND	ND	204
CONF18	2	ND	ND	ND	CONF46	2	ND	ND	364
CONF19	2	ND	ND	ND	CONF47	2	ND	ND	242
CONF20	2	ND	ND	151	CONF48	1.5	ND	ND	138
CONF21	2.5	ND	ND	ND	CONF49 Wall	1.5	ND	ND	337
CONF22	2.5	ND	ND	297	CONF50 Wall	1	ND	ND	159
CONF23	2.5	ND	ND	ND	CONF51 Wall	1	ND	25.3	63.9
CONF24	2.5	ND	ND	ND	CONF52 Wall	1	ND	43.1	1520
CONF25	2.5	ND	ND	ND	CONF53	0	ND	ND	427
CONF26	0.5	ND	31.9	154					



# TABLES



**Energizing America**

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**Mosaic Federal 2419 WA #002H** | Incident ID: nAPP2128846984

Mosaic Federal 2419 WA #002H   nAPP2128846984						
Kaiser-Francis Oil Company   09.13.2022						
Table 1. Laboratory Analysis Results: Delineation Samples						
Sample Description			Petroleum Hydrocarbons			Inorganic
Sample ID	Depth (ft.)	Date	Volatile		Extractable	Chloride (mk/kg)
			Benzene (mk/kg)	BTEX (total) (mk/kg)	TPH (mk/kg)	
Closure Criteria			10	50	100	600
BG01	0	11/1/2022	ND	ND	ND	ND
BG01	1	11/1/2022	ND	ND	ND	ND
SS01	4	11/1/2022	ND	ND	ND	ND
SS02	4	11/1/2022	ND	ND	ND	ND
SS03	0	11/1/2022	ND	ND	111.2	126
SS03C	0	9/8/2022	ND	ND	ND	47.1
SS04	0	11/1/2022	ND	ND	94.5	ND
SS05	0	11/1/2022	ND	ND	80	53.5
SS06	0	11/1/2022	ND	ND	ND	ND
SS07	0	9/6/2022	ND	ND	550	47
SS08	0	9/6/2022	ND	ND	ND	130
ABBREVIATIONS						
BTEX — Benzene, Toluene, Ethylene, Xylene			GRO — Gasoline Range Organics			
DRO — Diesel Range Organics			ND — Non-detect			
ft. — Feet			mg/kg — Milligrams per Kilogram			
TPH — Total Petroleum Hydrocarbons						
Notes						
Bold Red - Results are above closure criteria						
Gray Highlight - Background Samples						



Mosaic Federal 2419 WA #002H   nAPP2128846984						
Kaiser-Francis Oil Company   09.13.2022						
Table 2. Laboratory Analysis Results: Confirmation Samples						
Sample Description			Petroleum Hydrocarbons			Inorganic
Sample ID	Depth (ft.)	Date	Volatile		Extractable	Chloride (mk/kg)
			Benzene (mk/kg)	BTEX (total) (mk/kg)	TPH (mk/kg)	
Closure Criteria			10	50	100	600
CONF01	2	8/30/2022	ND	ND	ND	404
CONF02	1.5	8/30/2022	ND	ND	ND	261
CONF03	1.5	8/30/2022	ND	ND	ND	280
CONF04	1.5	8/30/2022	ND	ND	ND	67.3
CONF05	1.5	8/30/2022	ND	ND	ND	151
CONF06	1.5	8/30/2022	ND	ND	ND	249
CONF07	3	8/30/2022	ND	ND	ND	941
CONF07	4	9/2/2022	ND	ND	ND	ND
CONF08	2.5	8/30/2022	ND	ND	ND	463
CONF09	2	8/30/2022	ND	ND	ND	121
CONF10	1.5	8/30/2022	ND	ND	ND	444
CONF11	1.5	8/30/2022	ND	ND	ND	119
CONF12	2.5	8/30/2022	ND	ND	ND	ND
CONF13	2.5	8/30/2022	ND	ND	ND	ND
CONF14	2.5	8/30/2022	ND	ND	ND	23
CONF15	2.5	9/1/2022	ND	ND	ND	184
CONF16	2	9/1/2022	ND	ND	ND	ND
CONF17	2	9/1/2022	ND	ND	ND	ND
CONF18	2	9/1/2022	ND	ND	ND	ND
CONF19	2	9/1/2022	ND	ND	ND	ND
CONF20	2	9/1/2022	ND	ND	ND	151
CONF21	2.5	9/1/2022	ND	ND	ND	ND
CONF22	2.5	9/1/2022	ND	ND	ND	297
ABBREVIATIONS						
BTEX — Benzene, Toluene, Ethylene, Xylene			GRO — Gasoline Range Organics			
DRO — Diesel Range Organics			ND — Non-detect			
ft. — Feet			mg/kg — Milligrams per Kilogram			
TPH — Total Petroleum Hydrocarbons						
Notes						
Bold Red - Results are above closure criteria						
Gray Highlight - Background Samples						



Mosaic Federal 2419 WA #002H   nAPP2128846984						
Kaiser-Francis Oil Company   09.13.2022						
Table 2. Laboratory Analysis Results: Confirmation Samples						
Sample Description			Petroleum Hydrocarbons			Inorganic
Sample ID	Depth (ft.)	Date	Volatile		Extractable	Chloride (mk/kg)
			Benzene (mk/kg)	BTEX (total) (mk/kg)	TPH (mk/kg)	
Closure Criteria			10	50	100	600
CONF23	2.5	9/1/2022	ND	ND	ND	ND
CONF24	2.5	9/1/2022	ND	ND	ND	ND
CONF25	2.5	9/1/2022	ND	ND	ND	ND
CONF26	0.5	9/2/2022	ND	ND	31.9	154
CONF27	0.5	9/2/2022	ND	ND	ND	252
CONF28	0.5	9/2/2022	ND	ND	ND	419
CONF29	1.5	9/2/2022	ND	ND	ND	382
CONF30	2	9/2/2022	ND	ND	ND	397
CONF31	1.5	9/2/2022	ND	ND	ND	411
CONF33	0.5	9/2/2022	ND	ND	ND	439
CONF34	1	9/6/2022	ND	ND	ND	345
CONF35	1	9/6/2022	ND	ND	ND	145
CONF36	1	9/2/2022	ND	ND	ND	574
CONF37	1	9/2/2022	ND	ND	ND	531
CONF38	1.5	9/6/2022	ND	ND	ND	ND
CONF39	1.5	9/6/2022	ND	ND	ND	451
CONF40	1.5	9/6/2022	ND	ND	ND	371
CONF41	1	9/2/2022	ND	ND	ND	506
CONF42	1	9/2/2022	ND	ND	ND	469
CONF44	1.5	9/6/2022	ND	ND	ND	131
CONF45	1.5	9/6/2022	ND	ND	ND	204
CONF46	2	9/6/2022	ND	ND	ND	364
CONF47	2	9/6/2022	ND	ND	ND	242
ABBREVIATIONS						
BTEX — Benzene, Toluene, Ethylene, Xylene				GRO — Gasoline Range Organics		
DRO — Diesel Range Organics				ND — Non-detect		
ft. — Feet				mg/kg — Milligrams per Kilogram		
TPH — Total Petroleum Hydrocarbons						
Notes						
Bold Red - Results are above closure criteria						
Gray Highlight - Background Samples						



Mosaic Federal 2419 WA #002H   nAPP2128846984						
Kaiser-Francis Oil Company   09.13.2022						
Table 2. Laboratory Analysis Results: Confirmation Samples						
Sample Description			Petroleum Hydrocarbons			Inorganic
Sample ID	Depth (ft.)	Date	Volatile		Extractable	Chloride (mk/kg)
			Benzene (mk/kg)	BTEX (total) (mk/kg)	TPH (mk/kg)	
Closure Criteria			10	50	100	600
CONF48	1.5	9/6/2022	ND	ND	ND	138
CONF49 Wall	1.5	9/6/2022	ND	ND	ND	337
CONF50 Wall	1	9/6/2022	ND	ND	ND	159
CONF51 Wall	1	9/6/2022	ND	ND	25.3	63.9
CONF52 Wall	1	9/6/2022	ND	ND	43.1	1520
CONF53	0	9/6/2022	ND	ND	ND	427
ABBREVIATIONS						
BTEX — Benzene, Toluene, Ethylene, Xylene			GRO — Gasoline Range Organics			
DRO — Diesel Range Organics			ND — Non-detect			
ft. — Feet			mg/kg — Milligrams per Kilogram			
TPH — Total Petroleum Hydrocarbons						
Notes						
Bold Red - Results are above closure criteria						
Gray Highlight - Background Samples						



# ATTACHMENT A

Signed C-141



**Energizing America**

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

**Mosaic Federal 2419 WA #002H** | Incident ID: nAPP2128846984

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	nAPP2128846984
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party: Kaiser-Francis Oil Company	OGRID 12361
Contact Name: Aaron Daniels	Contact Telephone: 918-491-4352
Contact email: aarond@kfoc.net	Incident # (assigned by OCD) nAPP2128846984
Contact mailing address: 6733 S. Yale, Tulsa, OK 74136	

### Location of Release Source

Latitude 32.2953145 Longitude -104.0491501  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Mosaic Federal 2419 WA #002H	Site Type: Well Pad
Date Release Discovered: 10/13/2021	API# (if applicable) 30-015-47647

Unit Letter	Section	Township	Range	County
D	24	23S	28E	Eddy

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name: Mosaic Potash Inc.)

### Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input checked="" type="checkbox"/> Other (describe) Permalube Grease	Volume/Weight Released (provide units) ~50 Gallons	Volume/Weight Recovered (provide units) ~40 Gallons

#### Cause of Release

Fire initiated at 6:42pm MDT during frac operations. Fuel source and ignition source is still under investigation. Eddy County Fire responded and extinguished by 8:14pm. No injuries. No loss of well control. Permalube Grease was released onto location from a small building on pad impacted by the fire. Release estimate is based on storage capacity. Location was shoveled. Expectations are of a full recovery in that manner, along with whatever was consumed in the fire (estimated recovery also).

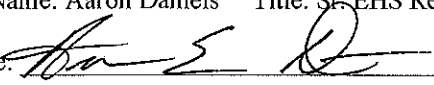
State of New Mexico  
Oil Conservation Division

Incident ID	nAPP2128846984
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Fire
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? NOR reported ~43 hours after event occurred by Aaron Daniels via OCD Online. Did not check Immediate Notification on NOR due to timeline.	

**Initial Response**

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:          
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: Aaron Daniels Title: Sr. EHS Representative Signature:  Date: 10/25/21 email: aarond@kfoc.net Telephone: 918-491-4352
<b><u>OCD Only</u></b> Received by: _____ Date: _____

Incident ID	nAPP2128846984
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>31</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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

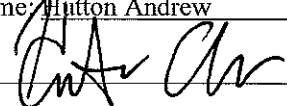
Form C-141

Page 4

State of New Mexico  
Oil Conservation Division

Incident ID	nAPP2128846984
District RP	
Facility ID	
Application ID	

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

Printed Name: Hutton AndrewTitle: EHS RepresentativeSignature: Date: 09/12/2022email: huttona@kfoc.netTelephone: 918-491-4615**OCD Only**Received by: Jocelyn HarimonDate: 09/13/2022

Form C-141

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State of New Mexico  
Oil Conservation Division

Incident ID	nAPP2128846984
District RP	
Facility ID	
Application ID	

## Remediation Plan

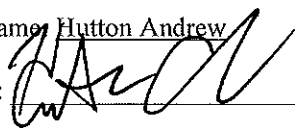
**Remediation Plan Checklist:** Each of the following items must be included in the plan.

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

Printed Name: Hutton AndrewTitle: EHS RepresentativeSignature: Date: 09/12/2022email: huttona@kfoc.netTelephone: 918-491-4615**OCD Only**Received by: Jocelyn Harimon Date: 09/13/2022☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

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

# ATTACHMENT B

## Site Photos



**Energizing America**

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

**Mosaic Federal 2419 WA #002H** | Incident ID: nAPP2128846984



Spill Area



Spill Area



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Mosaic Federal 2419 WA #002H Incident: nAPP2128846984

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Spill Area



Spill Area



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Mosaic Federal 2419 WA #002H Incident: nAPP2128846984

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Delineation Sampling



Delineation Sampling



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Mosaic Federal 2419 WA #002H Incident: nAPP2128846984

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Excavated Area



Contaminated Soil



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Mosaic Federal 2419 WA #002H Incident: nAPP2128846984

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Excavated Area



Excavated Area and Confirmation Sampling



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*Contaminated Soil**Excavated Area***Energizing America**

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**Mosaic Federal 2419 WA #002H** Incident: nAPP2128846984

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Removal of Contaminated Soil



Excavated Area and Confirmation Sampling

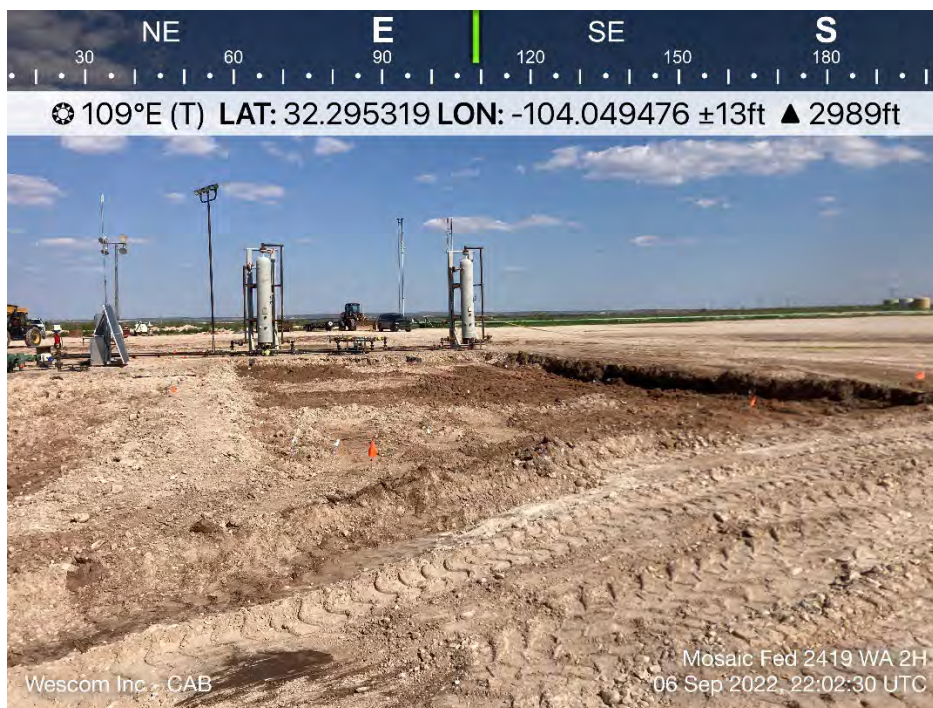


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Mosaic Federal 2419 WA #002H Incident: nAPP2128846984

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*Excavated Area and Confirmation Sampling*



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**Mosaic Federal 2419 WA #002H** Incident: nAPP2128846984

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# ATTACHMENT C

## Closure Criteria Supporting Documents



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**Mosaic Federal 2419 WA #002H** | Incident ID: nAPP2128846984



# New Mexico Office of the State Engineer

## Wells with Well Log Information










(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right)

(R=POD has been replaced, O=orphaned, C=the file is closed)

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







(NAD83 UTM in meters)

(in feet)

POD Number	Code	POD Subbasin	County	Source	q	q	q	6416 4	Sec	Tws	Rng	X	Y	Distance	Start Date	Finish Date	Log File Date	Depth Well	Depth Water	Driller	License Number	
<a href="#">C 03965 POD5</a>		CUB	ED	Shallow	4	1	1	24	23S	28E		589864	3573534		342	07/18/2016	07/18/2016	08/18/2016	35	31	BRYAN, EDWARD	1711
<a href="#">C 04556 POD1</a>		CUB	ED	Shallow	4	3	1	24	23S	28E		589720	3573237		397	08/17/2021	08/17/2021	09/23/2021	40	36	COOPER, KENNY.EE.NER	1731
<a href="#">C 03965 POD4</a>		CUB	ED	Shallow		1	4	24	23S	28E		589918	3573381		442	07/18/2016	07/18/2016	08/18/2016	40	31	BRYAN, EDWARD	1711
<a href="#">C 04556 POD2</a>		CUB	ED	Shallow	4	3	1	24	23S	28E		589891	3573239		502	07/17/2021	08/17/2021	09/23/2021	40	36	COOPER, KENNY.EE.NER	1731
<a href="#">C 03146</a>		C	ED	Shallow	1	1	3	24	23S	28E		589613	3572970*		621	02/14/2005	02/15/2005	03/21/2005	82	36		1348
<a href="#">C 01102</a>		C	ED	Shallow		1	2	23	23S	28E		588901	3573672*		630	12/10/1962	12/21/1962	01/30/1963	100	12	MORELAND, A.J.	113
<a href="#">C 04490 POD2</a>		CUB	ED	Shallow	2	3	3	13	23S	28E		589899	3574259		770	11/18/2020	11/19/2020	12/21/2020	23	19	SHAWN CAIN	1664
<a href="#">C 01217</a>		CUB	ED	Shallow	4	1	3	13	23S	28E		589789	3574371		829	08/07/1964	08/11/1964	09/15/1964	87	50	W.H. BRADY	359
<a href="#">C 00154</a>		CUB	ED	Shallow	4	2	1	23	23S	28E		588595	3573566*		930	08/15/1974	08/20/1974	02/11/1975	196	38	HOWARD P. HEMLER	24
<a href="#">C 01215</a>		CUB	ED	Shallow	4	2	3	13	23S	28E		590210	3574397*		1062	08/03/1964	08/04/1964	09/15/1964	104	15	W.H. BRADY	359
<a href="#">C 04490 POD3</a>		CUB	ED	Shallow	4	1	2	24	23S	28E		590596	3573502		1074	11/20/2020	11/21/2020	12/21/2020	37	33	SHAWN CAIN	1664
<a href="#">C 01967</a>		C	ED	Shallow		2	3	13	23S	28E		590111	3574498*		1084	06/22/1981	07/15/1981	08/04/1981	264	200		592
<a href="#">C 04556 POD3</a>		CUB	ED	Shallow	4	3	1	24	23S	28E		590567	3573265		1089	08/17/2021	08/17/2021	09/23/2021	40	36	COOPER, KENNY.EE.NER	1731
<a href="#">C 01214</a>		CUB	ED	Shallow	1	2	3	13	23S	28E		590010	3574597*		1122	08/01/1964	08/02/1964	11/02/1964	70	20	W.H. BRADY	359
<a href="#">C 01108</a>		C	ED	Shallow	3	2	1	23	23S	28E		588395	3573566*		1130	06/20/1967	12/31/1930	07/06/1967	60	35	BARRON, EMMETT	30
<a href="#">C 01816</a>		C	ED	Shallow	1	3	1	23	23S	28E		587992	3573355*		1550	07/12/1979	07/27/1979	08/01/1979	200	40	BRISTOW, JIM D.	743
<a href="#">C 03460 POD1</a>		CUB	ED	Shallow	3	1	2	14	23S	28E		588857	3575004		1568	10/08/2010	10/08/2010	10/13/2010	100	38	NORRIS, JOHN D. (LD)	1682
<a href="#">C 00048</a>		CUB	ED	Shallow	3	3	1	23	23S	28E		587997	3573160		1586	09/01/1976	09/27/1976	09/28/1976	182	75	H. HEMLER	24
<a href="#">C 00048</a>	C	CUB	ED	Shallow	3	3	1	23	23S	28E		587997	3573160		1586	09/01/1976	09/27/1976	09/28/1976	182	75	H. HEMLER	24
<a href="#">C 01443</a>		C	ED	Shallow		2	1	25	23S	28E		590123	3572064*		1634	10/27/1970	11/08/1970	11/17/1970	50	27	BARRON, EMMETT	30
<a href="#">C 01216</a>		CUB	ED	Shallow	4	1	1	13	23S	28E		589801	3575205*		1643	08/05/1964	08/06/1964	09/15/1964	60	45	W.H. BRADY	359
<a href="#">C 00136 S</a>		CUB	ED	Shallow	1	1	2	25	23S	28E		590426	3572167*		1679	04/05/1976	08/24/1964	05/28/1976	122	45	HOWARD HEMLER.	24
<a href="#">C 04584 POD2</a>		CUB	ED	Shallow	4	2	1	13	23S	28E		590250	3575123		1700	12/14/2021	12/15/2021	05/19/2022	34	19	CAIN, SHAWN N.NJR.L.NER	1664
<a href="#">C 04490 POD1</a>		CUB	ED	Shallow	1	4	4	24	23S	28E		590876	3572492		1737	11/16/2020	11/17/2020	12/21/2020	37	25	SHAWN CAIN	1664
<a href="#">C 00869 S-2</a>	O	CUB	ED	Shallow		3	3	23	23S	28E		588097	3572444*		1828	10/10/1974	10/15/1974	11/26/1974	150	58	M.D. BRININSTOOL	24
<a href="#">C 02189</a>		C	ED	Shallow	1	1	3	14	23S	28E		587985	3574572*		1829	03/12/1990	03/12/1990	04/20/1990	48	29	NORMAN SPRUILL	803
<a href="#">C 00128</a>		C	ED	Shallow	2	4	4	15	23S	28E		587783	3574162*		1835	12/24/1952	01/10/1953	04/30/1953	149		SMITH, SAM S.	108

<a href="#">C 00136</a>		CUB	ED	Shallow	3	1	2	25	23S	28E	590426	3571967*		1851	06/20/2002	07/09/2002	08/19/2002	200	42	BEHUNIN,KEITH	1227
<a href="#">C 00443</a>		C	ED	Shallow	4	2	4	22	23S	28E	587790	3572745*		1927	01/25/1978	02/09/1978	02/23/1978	171	160	TAYLOR, W.H. SR.	604
<a href="#">C 02702</a>		C	ED	Shallow		2	13		23S	28E	590715	3575108*		1932	05/20/2000	05/20/2000	08/28/2000	38	20		1348
<a href="#">C 00094</a>		CUB	ED	Shallow	3	4	2	22	23S	28E	587588	3573151*		1985	02/03/1965	02/10/1965	03/21/1967	100	60	EMMETT BARRON	30
<a href="#">C 00094</a>	C	CUB	ED	Shallow	3	4	2	22	23S	28E	587588	3573151*		1985	02/03/1965	02/10/1965	03/21/1967	100	60	EMMETT BARRON	30
<a href="#">C 00094 A</a>	C	CUB	ED	Shallow	3	4	2	22	23S	28E	587588	3573151*		1985	07/18/2002		11/04/2002	166	40	BEHUNIN, KEITH	1227
<a href="#">C 02704</a>		C	ED	Shallow		1	19		23S	29E	591531	3573493*		2007	05/18/2000	05/19/2000	08/28/2000	174			1348
<a href="#">C 04584 POD3</a>		CUB	ED	Shallow	3	2	2	13	23S	28E	590887	3575129		2059	12/14/2021	12/15/2021	05/19/2022	31		CAIN, SHAWN N.NJR.L.NER	1664
<a href="#">C 00616</a>		CUB	ED	Shallow	1	3	1	14	23S	28E	587982	3574978*		2079	10/22/1980	12/05/1980	12/09/1980	120	30	BRININSTOOL, M.D.	842
<a href="#">C 01122</a>		CUB	ED	Shallow	1	1	1	26	23S	28E	587999	3572138*		2103	12/04/1964	01/05/1965	02/05/1965	175	30	SAM S. SMITH	108
<a href="#">C 00269</a>		C	ED	Shallow	4	4	2	15	23S	28E	587778	3574773*		2112	03/01/1958	03/30/1958	04/08/1958	240	35	FREEK, R.H.	212
<a href="#">C 00269 CLW199753</a>	O	C	ED	Shallow	4	4	2	15	23S	28E	587778	3574773*		2112	03/01/1958	03/30/1958	04/08/1958	240	35	R.H. FREEK	212
<a href="#">C 02503</a>		C	ED	Shallow		4	2	15	23S	28E	587679	3574874*		2251	08/27/1996	08/29/1996	09/03/1996	70	12	OSBOURN, FLOYD MILTON	353
<a href="#">C 01487 CLW201796</a>	O	CUB	ED	Shallow		3	2	22	23S	28E	587284	3573247*		2266	10/26/1974	10/28/1974	12/02/1974	90	30	BARRON, EMMETT	30
<a href="#">C 03469 POD1</a>		CUB	ED	Shallow	3	4	3	11	23S	28E	588374	3575538		2267	01/24/2011	01/25/2011	05/20/2011	68	38	SCARBOROUGH, LANE (LD)	1188
<a href="#">C 00094 AS</a>	C	CUB	ED	Shallow	1	3	2	22	23S	28E	587183	3573346*		2354	04/23/1976	04/30/1976	05/11/1976	165	40	MURRELL ABBOTT	46
<a href="#">C 03001 EXPLORE</a>		CUB	ED	Shallow	1	1	4	25	23S	28E	590430	3571355*		2406	09/10/2003	09/24/2003	10/20/2003	140		HAMMOND, JOHN B.	1227
<a href="#">C 03432 POD1</a>		C	ED	Shallow	1	2	2	27	23S	28E	587527	3572162		2452	10/17/2009	10/25/2009	10/26/2009	115	75	MARK HAMMOND	1400
<a href="#">C 00235</a>		C	ED	Shallow		2	2	15	23S	28E	587676	3575280*		2508	07/21/1950	07/23/1950	01/05/1953	160		KIMMEL, J.F.	153
<a href="#">C 04451 POD1</a>		C	ED	Shallow	4	4	4	10	23S	28E	587833	3575521		2571	09/28/2020	10/01/2020	10/14/2020	120	57	HAMMOND, MARKDALENAIGENER	1400
<a href="#">C 04584 POD1</a>		CUB	ED		3	1	4	12	23S	28E	590392	3576064		2626	12/16/2021	12/17/2021	05/19/2022	63		CAIN, SHAWN N.NJR.L.NER	1664
<a href="#">C 01872</a>		C	ED	Shallow		2	1	22	23S	28E	586878	3573649*		2648	04/07/1980	06/12/1980	07/02/1980	68	48	MORELAND, A.J.	113
<a href="#">C 01487</a>		CUB	ED	Shallow	3	4	1	22	23S	28E	586779	3573142*		2781	12/07/1977	12/22/1977	01/13/1978	150	38	BILL G. TAYLOR, JR.	655
<a href="#">C 03974 POD1</a>		C	ED	Shallow	2	2	1	27	23S	28E	587087	3572220		2793	08/15/2016	08/16/2016	10/03/2016	75	43	CLINTON E TAYLOR	1348
<a href="#">C 03587 POD2</a>		CUB	ED	Shallow	1	2	4	19	23S	29E	592213	3572706		2827	04/11/2013	04/13/2013	05/07/2013	77	16	TAYLOR, CLINTON E. (LD)	1348
<a href="#">C 03535 POD1</a>		C	ED	Shallow	4	3	3	25	23S	28E	589860	3570751		2853	04/06/2012	04/08/2012	04/26/2012	210	25	TAYLOR, ROY ALLEN	1626
<a href="#">C 02706</a>		C	ED	Shallow		4	18		23S	29E	592302	3574291*		2865	05/23/2000	05/24/2000	08/28/2000	17	10		1348
<a href="#">C 00315</a>		CUB	ED	Shallow	3	1	3	11	23S	28E	587973	3575995*		2866	06/16/1952	06/20/1952	01/06/1953	100	45	J.F. KIMMELL	
<a href="#">C 01870</a>		C	ED	Shallow		4	3	22	23S	28E	586885	3572432*		2881	07/03/1979	12/06/1979	12/14/1979	105	48	MORELAND, A.J.	113
<a href="#">C 00641</a>		C	ED	Shallow	2	2	1	27	23S	28E	586986	3572126*		2928	03/20/1955	03/22/1955	04/07/1955	115	40	JOLLY, J.R.	171
<a href="#">C 01336</a>		C	ED	Shallow	2	1	1	22	23S	28E	586572	3573744*		2957	09/03/1966	09/20/1966	01/26/1967	190	30	HOWARD HEMLER	24
<a href="#">C 00211</a>		C	ED	Shallow	4	3	3	15	23S	28E	586570	3573949*		2977	06/19/1979	06/20/1979	09/26/1979	89	48	J. W. TOMBLIN	592
<a href="#">C 00024</a>	O	CUB	ED	Shallow		3	22		23S	28E	586682	3572629*		2999	08/17/1979	03/10/1980	04/23/1980	242	48	A. J. MORELAND	113
<a href="#">C 04470 POD1</a>		CUB	ED		3	1	3	07	23S	29E	591280	3576086		3055	09/03/2020	09/03/2020	09/14/2020			ATKINS, JACKIE D.UELENER	1249

<a href="#">C 04216 POD4</a>		CUB	ED	Shallow	2	4	1	11	23S	28E	588499	3576513		3102	04/04/2018	04/04/2018	04/18/2018	20	10	ATKINS, JACKIE D.	1249
<a href="#">C 04216 POD1</a>		CUB	ED	Shallow	2	4	1	11	23S	28E	588488	3576534		3126	04/04/2018	04/04/2018	04/18/2018	20	10	ATKINS, JACKIE D.	1249
<a href="#">C 00571</a>		CUB	ED	Shallow	1	3	3	30	23S	29E	591241	3570957*		3138	07/25/1954	07/30/1954	09/14/1954	90	38	EXISTING WELL	171
<a href="#">C 04216 POD3</a>		CUB	ED	Shallow	1	4	1	11	23S	28E	588501	3576556		3142	04/04/2018	04/04/2018	04/18/2018	23	13	ATKINS, JACKIE D.	1249
<a href="#">C 04216 POD2</a>		CUB	ED	Shallow	1	4	1	11	23S	28E	588465	3576555		3154	04/04/2018	04/04/2018	04/18/2018	20	10	ATKINS, JACKIE D.	1249
<a href="#">C 01253</a>		CUB	ED	Shallow	1	3	1	22	23S	28E	586375	3573338*		3159	05/15/1965	06/04/1965	07/09/1965	179	50	BRININSTOOL, A.M.	410
<a href="#">C 00136 A</a>		CUB	ED	Shallow	4	4	4	25	23S	28E	591037	3570753*		3210	09/25/2003	09/27/2003	10/27/2003	100	60	EXISTING WELL	
<a href="#">C 00571 CLW241602</a>	O	CUB	ED	Shallow	3	3	3	30	23S	29E	591241	3570757*		3307	07/25/1954	07/30/1954	09/14/1954	89	38	J.R. JOLLY	171
<a href="#">C 04418 POD1</a>		CUB	ED		4	2	1	12	23S	28E	590104	3576851		3316	03/31/2020	03/31/2020	05/26/2020	55		MARK MUMBY	1789
<a href="#">C 00512 EXPL</a>	O	CUB	ED	Shallow		1	11	23S	28E	588272	3576703*		3360	07/12/1971	07/17/1971	10/15/1971	200	16	BRININSTOOL, M.D.	24	
<a href="#">C 00340</a>		C	ED	Shallow		1	1	27	23S	28E	586483	3572022*		3420	08/11/1952	08/13/1952	08/25/1952	117	18	HOWARD HEMLER	122
<a href="#">C 01885</a>		C	ED	Shallow		2	2	21	23S	28E	586070	3573640*		3455	12/10/1979	12/17/1979	01/14/1980	104	35	JIM TOMBLIN	592
<a href="#">C 00512</a>		CUB	ED	Shallow	4	1	1	11	23S	28E	588188	3576775		3459	05/04/1975	05/20/1975	05/11/1976	175	15	BRININSTOOL, M.D.	24
<a href="#">C 03762 POD3</a>		CUB	ED	Shallow	4	2	2	16	23S	28E	586203	3574642		3486	08/11/2014	08/11/2014	08/22/2014	40	30	BLANCO, TIMOTHY	1070
<a href="#">C 03059 EXPLORE</a>		CUB	ED	Shallow	4	1	3	17	23S	29E	592993	3574378*		3557	04/05/2004	04/06/2004	05/05/2004		65	RODNEY D. DUTTON	1184
<a href="#">C 00327</a>		CUB	ED	Shallow	3	2	4	21	23S	28E	585974	3572728*		3653	06/23/1952	07/10/1952	06/12/1954	212		J. F. KIMMELL	
<a href="#">C 00326</a>		CUB	ED	Shallow	3	3	3	10	23S	28E	586358	3575572*		3739	10/01/1991	10/19/1991	11/01/1991	130	19	MIKE CAMPBELL	1259
<a href="#">C 00326 CLW196238</a>	O	CUB	ED	Shallow	3	3	3	10	23S	28E	586358	3575572*		3739	07/23/1952	08/06/1952	09/03/1952	196	25	J.F. KIMMELL	
<a href="#">C 02182</a>		C	ED	Shallow		4	30	23S	29E	592328	3571048*		3780	09/26/1989	09/26/1989	10/05/1989	75	30		1184	
<a href="#">C 04415 POD9</a>		CUB	ED	Shallow	4	1	4	04	23S	28E	585714	3572094		4092	07/15/2021	07/16/2021	10/05/2021	40	36	071521	1186
<a href="#">C 00716</a>		C	ED	Shallow				21	23S	28E	585471	3573012*		4094	07/25/1956	08/01/1956	08/14/1956	140	69	W.C. MOORE	195
<a href="#">C 03732 POD1</a>		C	ED	Shallow	1	3	3	27	23S	28E	586321	3570929		4161	04/12/2014	04/13/2014	08/13/2014	171	10	MALEY, JASON	1690
<a href="#">C 01938</a>		C	ED	Shallow		2	4	28	23S	28E	586085	3571205*		4183	01/07/1981	02/01/1981	03/11/1981	80	3	WHEELER, RAY	729
<a href="#">C 03762 POD1</a>		CUB	ED	Shallow	4	4	2	17	23S	28E	585314	3574066		4238	08/11/2014	08/11/2014	08/22/2014	40	31	BLANCO, TIMOTHY	1070
<a href="#">C 01472</a>		CUB	ED	Shallow	2	3	2	28	23S	28E	585730	3571652		4259	06/01/1974	06/28/1974	06/22/1976	162	10	J. W. TOMBLIN	592
<a href="#">C 00311</a>		C	ED	Shallow	4	2	1	16	23S	28E	585353	3575152*		4456	06/23/1952	07/05/1952	07/17/1952	163	55	HOWARD HEMLER	24
<a href="#">C 00800</a>		C	ED	Shallow		4	2	09	23S	28E	586050	3576479*		4522	11/05/1957	11/10/1957	12/09/1957	200	30	WILLARD BEATY	62
<a href="#">C 02705</a>		C	ED	Shallow		2		17	23S	29E	593902	3575093*		4629	05/24/2000	05/26/2000	08/28/2000	68	28		1348
<a href="#">C 04560 POD2</a>		CUB	ED	Shallow	1	3	3	16	23S	28E	584857	3574036		4690	10/26/2021	10/28/2021	11/29/2021	36	25	JAROD MICHALSKY	1800
<a href="#">C 03587 POD1</a>		CUB	ED	Shallow	1	4	3	29	23S	29E	593338	3570754		4747	04/13/2013	04/14/2013	05/07/2013	99	44	TAYLOR, CLINTON E. (LD)	1348
<a href="#">C 00544</a>		C	ED	Shallow	3	3	1	21	23S	28E	584762	3573120*		4785	11/27/1954	11/28/1954	12/13/1954	27		JOLLY, J.R.	171
<a href="#">C 00577</a>		C	ED	Shallow	3	1	3	21	23S	28E	584764	3572714*		4840	05/15/1956	05/15/1956	07/24/1956	35	10	EMMETT BARRON	30
<a href="#">C 00578</a>		C	ED	Shallow	3	1	3	21	23S	28E	584764	3572714*		4840	01/31/1955	01/31/1955	12/12/1955	28	18	HOWARD HEMLER	24
<a href="#">C 00643</a>		C	ED	Shallow	3	1	3	21	23S	28E	584764	3572714*		4840	04/27/1956	04/30/1956	05/23/1956	76	10	HOWARD HEMLER	24
<a href="#">C 00520</a>		C	ED	Shallow	1	1	3	16	23S	28E	584754	3574538*		4865	01/12/1954	01/19/1954	03/22/1954	115	33	HOWARD HEMLER	24

<a href="#">C 00521</a>	C	ED	Shallow	1	1	3	16	23S	28E	584754	3574538*		4865	01/03/1954	01/12/1954	03/22/1954	218	33	HOWARD HEMLER	24	
<a href="#">C 04539 POD1</a>	CUB	ED		2	4	2	01	23S	28E	591034	3578223		4877	07/14/2021	07/14/2021	10/05/2021	55		HAMMER, RODNEY S.WARDENER	1186	
<a href="#">C 00650</a>	C	ED	Shallow	1	3	3	21	23S	28E	584767	3572508*		4878	07/06/1956	07/07/1956	11/01/1956	32	12	HOWARD HEMLER	24	
<a href="#">C 00539</a>	C	ED	Shallow	3	3	3	21	23S	28E	584767	3572308*		4926	07/06/1954	07/07/1954	12/10/1954	28	6	JOLLY, J.R.	171	
<a href="#">C 02198</a>	C	ED					1	01	24S	28E	589940	3568611*		4991	08/09/1990	08/13/1990	08/28/1990	78		MURRELL ABBOTT	46
<a href="#">C 02186</a>	C	ED	Shallow				2	02	24S	28E	589128	3568606*		4994	02/04/1990	02/04/1990	02/13/1990	100	55	ROBERT W. COLLIS	1184

Record Count: 102

UTMNAD83 Radius Search (in meters):

Easting (X): 589525.33      Northing (Y): 3573585      Radius: 5000

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

9/8/22 9:36 AM


WELLS WITH WELL LOG INFORMATION



# 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	X	Y
C	03965 POD5	4	1	1	24	23S	28E	589864	3573534 

**Driller License:** 1711 **Driller Company:** STRAUB CORPORATION

**Driller Name:** BRYAN, EDWARD

**Drill Start Date:** 07/18/2016

**Drill Finish Date:** 07/18/2016

**Plug Date:**

**Log File Date:** 08/18/2016

**PCW Rcv Date:**

**Source:** Shallow

**Pump Type:**

**Pipe Discharge Size:**

**Estimated Yield:**

**Casing Size:** 2.00

**Depth Well:** 35 feet




**Depth Water:** 31 feet

Casing Perforations:	Top	Bottom
	25	35

# Mosaic Federal 2419 WA #002H

Distance to Nearest Depth to Water = 0.21 Miles

## Legend

-  Distance = 0.21 Miles
-  DTW = 31 ft - C 03965 POD5
-  Mosaic Federal 2419 WA #002H

Mosaic Federal 2419 WA #002H

DTW = 31 ft - C 03965 POD5



U.S. Fish and Wildlife Service

## National Wetlands Inventory

Mosaic Fed 2419 WA #002H - Riverine  
1,194.3 ft

November 3, 2021

## 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.



U.S. Fish and Wildlife Service

## National Wetlands Inventory

Mosaic Fed 2419 WA #002H - Wetland  
1,318.5 ft

November 3, 2021

## Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

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




- Lake
- Other
- Riverine

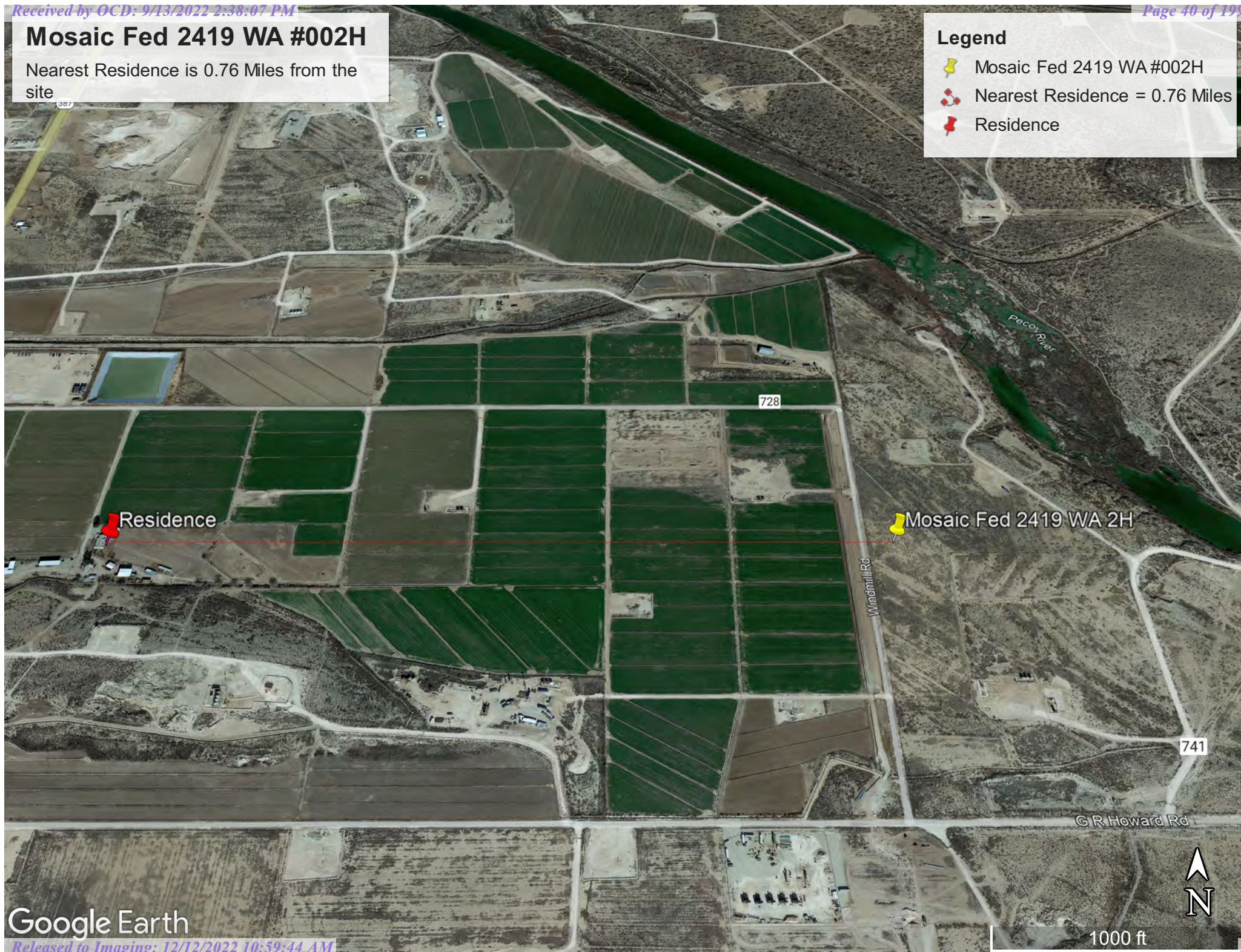
This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

# Mosaic Fed 2419 WA #002H

Nearest Residence is 0.76 Miles from the site

## Legend

-  Mosaic Fed 2419 WA #002H
-  Nearest Residence = 0.76 Miles
-  Residence



## National Flood Hazard Layer FIRMette



104°3'16"W 32°17'59"N



Released to Imaging: 12/12/2022 10:59:44 AM

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

## Legend

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

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



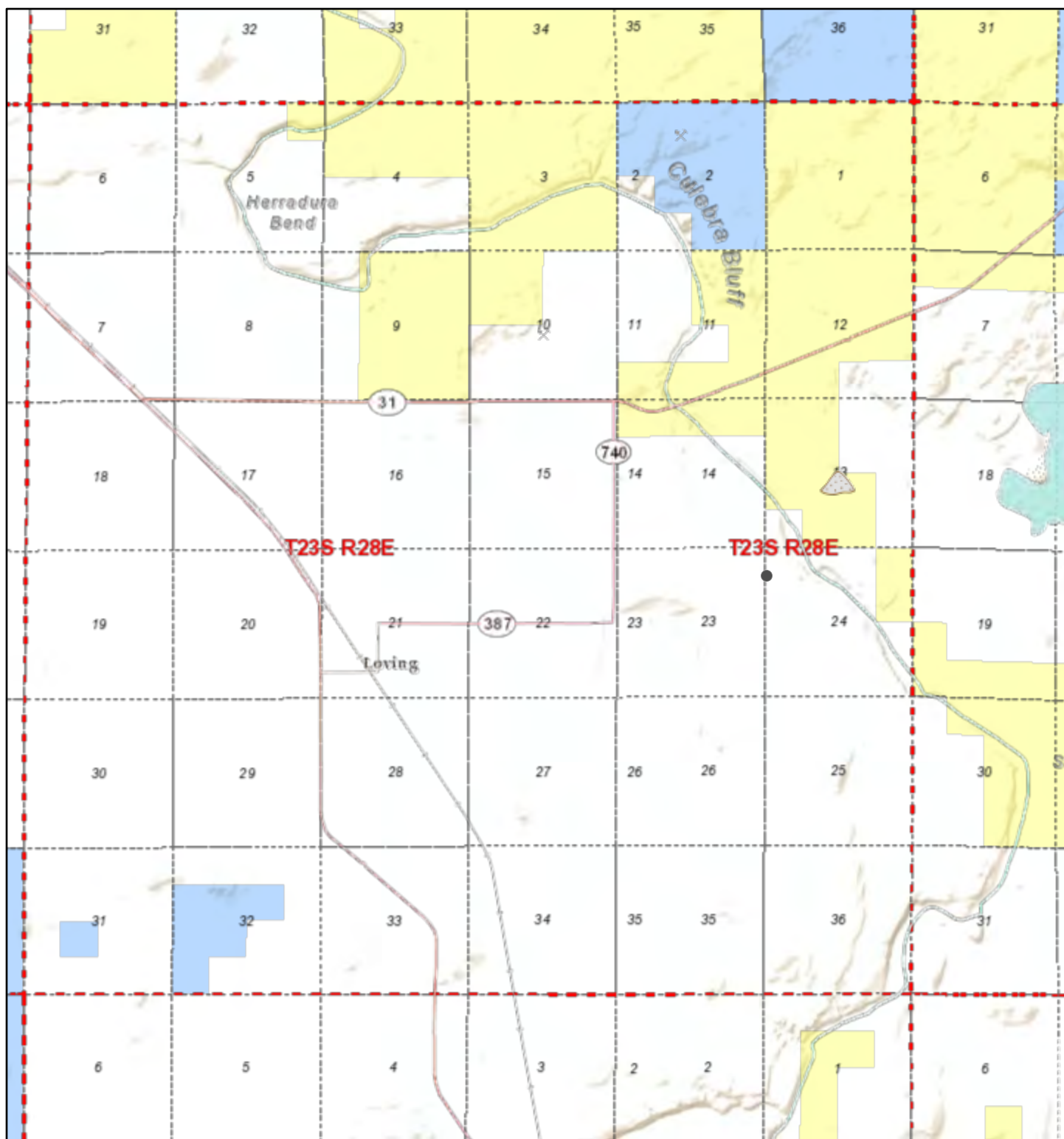
The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **11/3/2021 at 10:08 AM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

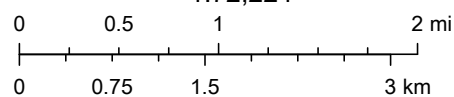
This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory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

## Active Mines Near Mosaic Fed 2419 WA #002H



11/3/2021, 8:32:03 AM

1:72,224



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

EMNRD MMD GIS Coordinator

# ATTACHMENT D

## Karst Map



**Energizing America**

**wescominc.com** | [info@wescominc.com](mailto:info@wescominc.com) | 218-724-1322

**Mosaic Federal 2419 WA #002H** | Incident ID: nAPP2128846984

# Mosaic Federal 2419 WA #002H

Karst Potential = Medium

## Legend

- 01 Low
- 02 Medium
- 03 High
- Mosaic Federal 2419 WA #002H

Mosaic Federal 2419 WA #002H

728

Windmill Rd

Pear River

Google Earth

Released to Imaging: 12/12/2022 10:59:44 AM

1000 ft



# ATTACHMENT E

## Envirotech Inc. Laboratory Analysis Reports

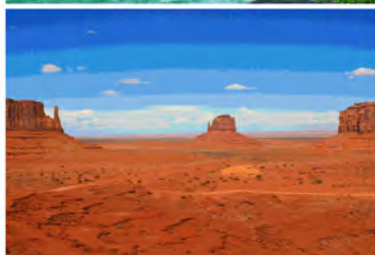


**Energizing America**

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

**Mosaic Federal 2419 WA #002H** | Incident ID: nAPP2128846984

Report to:  
Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Kaiser Francis Oil Company

Project Name: Mosaic Federal 2419 WA

Work Order: E111022

Job Number: 21022-0001

Received: 11/2/2021

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
11/15/21

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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

Date Reported: 11/15/21

Ashley Giovengo  
1224 Standpipe Rd  
Carlsbad, NM 88220



Project Name: Mosaic Federal 2419 WA  
Workorder: E111022  
Date Received: 11/2/2021 10:00:00PM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/2/2021 10:00:00PM, under the Project Name: Mosaic Federal 2419 WA.

The analytical test results summarized in this report with the Project Name: Mosaic Federal 2419 WA apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

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

Field Offices:

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

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

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

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## Sample Summary

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Mosaic Federal 2419 WA Project Number: 21022-0001 Project Manager: Ashley Giovengo	Reported: 11/15/21 15:53
---	--	-----------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS01-4'	E111022-01A	Soil	11/01/21	11/02/21	Glass Jar, 4 oz.
SS02-4'	E111022-02A	Soil	11/01/21	11/02/21	Glass Jar, 4 oz.
BG01-0'	E111022-03A	Soil	11/01/21	11/02/21	Glass Jar, 4 oz.
BG01-1'	E111022-04A	Soil	11/01/21	11/02/21	Glass Jar, 4 oz.
SS03-0'	E111022-05A	Soil	11/01/21	11/02/21	Glass Jar, 4 oz.
SS04-0'	E111022-06A	Soil	11/01/21	11/02/21	Glass Jar, 4 oz.
SS05-0'	E111022-07A	Soil	11/01/21	11/02/21	Glass Jar, 4 oz.
SS06-0'	E111022-08A	Soil	11/01/21	11/02/21	Glass Jar, 4 oz.



## Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Mosaic Federal 2419 WA Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 11/15/2021 3:53:53PM
---	--	--

SS01-4'

E111022-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2145061	
Benzene	ND	0.0250	1	11/05/21	11/12/21	
Ethylbenzene	ND	0.0250	1	11/05/21	11/12/21	
Toluene	ND	0.0250	1	11/05/21	11/12/21	
o-Xylene	ND	0.0250	1	11/05/21	11/12/21	
p,m-Xylene	ND	0.0500	1	11/05/21	11/12/21	
Total Xylenes	ND	0.0250	1	11/05/21	11/12/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	93.0 %	70-130		11/05/21	11/12/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2145061	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/05/21	11/12/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	107 %	70-130		11/05/21	11/12/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2145062	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/05/21	11/10/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/05/21	11/10/21	
<i>Surrogate: n-Nonane</i>	115 %	50-200		11/05/21	11/10/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2145039	
Chloride	ND	200	10	11/04/21	11/05/21	



## Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Mosaic Federal 2419 WA Project Number: 21022-0001 Project Manager: Ashley Giovengo	Reported: 11/15/2021 3:53:53PM
---	--	-----------------------------------

SS02-4'

E111022-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2145061	
Benzene	ND	0.0250	1	11/05/21	11/12/21	
Ethylbenzene	ND	0.0250	1	11/05/21	11/12/21	
Toluene	ND	0.0250	1	11/05/21	11/12/21	
o-Xylene	ND	0.0250	1	11/05/21	11/12/21	
p,m-Xylene	ND	0.0500	1	11/05/21	11/12/21	
Total Xylenes	ND	0.0250	1	11/05/21	11/12/21	
Surrogate: 4-Bromochlorobenzene-PID	93.8 %	70-130		11/05/21	11/12/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2145061	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/05/21	11/12/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID	109 %	70-130		11/05/21	11/12/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2145062	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/05/21	11/10/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/05/21	11/10/21	
Surrogate: n-Nonane	114 %	50-200		11/05/21	11/10/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2145039	
Chloride	ND	200	10	11/04/21	11/06/21	



## Sample Data

Kaiser Francis Oil Company	Project Name:	Mosaic Federal 2419 WA	<b>Reported:</b> 11/15/2021 3:53:53PM
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

BG01-0'

E111022-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2145061	
Benzene	ND	0.0250	1	11/05/21	11/12/21	
Ethylbenzene	ND	0.0250	1	11/05/21	11/12/21	
Toluene	ND	0.0250	1	11/05/21	11/12/21	
o-Xylene	ND	0.0250	1	11/05/21	11/12/21	
p,m-Xylene	ND	0.0500	1	11/05/21	11/12/21	
Total Xylenes	ND	0.0250	1	11/05/21	11/12/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		94.3 %	70-130	11/05/21	11/12/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2145061	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/05/21	11/12/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		109 %	70-130	11/05/21	11/12/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2145062	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/05/21	11/10/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/05/21	11/10/21	
<i>Surrogate: n-Nonane</i>		114 %	50-200	11/05/21	11/10/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2145039	
Chloride	ND	20.0	1	11/04/21	11/05/21	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Mosaic Federal 2419 WA  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
11/15/2021 3:53:53PM

BG01-1'

E111022-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2145061	
Benzene	ND	0.0250	1	11/05/21	11/12/21	
Ethylbenzene	ND	0.0250	1	11/05/21	11/12/21	
Toluene	ND	0.0250	1	11/05/21	11/12/21	
o-Xylene	ND	0.0250	1	11/05/21	11/12/21	
p,m-Xylene	ND	0.0500	1	11/05/21	11/12/21	
Total Xylenes	ND	0.0250	1	11/05/21	11/12/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		93.8 %	70-130	11/05/21	11/12/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2145061	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/05/21	11/12/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		112 %	70-130	11/05/21	11/12/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2145062	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/05/21	11/10/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/05/21	11/10/21	
<i>Surrogate: n-Nonane</i>		119 %	50-200	11/05/21	11/10/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2145039	
Chloride	ND	20.0	1	11/04/21	11/06/21	



## Sample Data

Kaiser Francis Oil Company	Project Name:	Mosaic Federal 2419 WA	<b>Reported:</b> 11/15/2021 3:53:53PM
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

SS03-0'

E111022-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2145061	
Benzene	ND	0.0250	1	11/05/21	11/12/21	
Ethylbenzene	ND	0.0250	1	11/05/21	11/12/21	
Toluene	ND	0.0250	1	11/05/21	11/12/21	
o-Xylene	ND	0.0250	1	11/05/21	11/12/21	
p,m-Xylene	ND	0.0500	1	11/05/21	11/12/21	
Total Xylenes	ND	0.0250	1	11/05/21	11/12/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		93.1 %	70-130	11/05/21	11/12/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2145061	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/05/21	11/12/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		109 %	70-130	11/05/21	11/12/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2145062	
Diesel Range Organics (C10-C28)	39.1	25.0	1	11/05/21	11/10/21	
Oil Range Organics (C28-C36)	72.1	50.0	1	11/05/21	11/10/21	
<i>Surrogate: n-Nonane</i>		121 %	50-200	11/05/21	11/10/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2145039	
Chloride	126	20.0	1	11/04/21	11/06/21	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Mosaic Federal 2419 WA  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
11/15/2021 3:53:53PM

SS04-0'

E111022-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2145061	
Benzene	ND	0.0250	1	11/05/21	11/12/21	
Ethylbenzene	ND	0.0250	1	11/05/21	11/12/21	
Toluene	ND	0.0250	1	11/05/21	11/12/21	
o-Xylene	ND	0.0250	1	11/05/21	11/12/21	
p,m-Xylene	ND	0.0500	1	11/05/21	11/12/21	
Total Xylenes	ND	0.0250	1	11/05/21	11/12/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		93.9 %	70-130	11/05/21	11/12/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2145061	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/05/21	11/12/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		109 %	70-130	11/05/21	11/12/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2145062	
Diesel Range Organics (C10-C28)	25.7	25.0	1	11/05/21	11/10/21	
Oil Range Organics (C28-C36)	68.8	50.0	1	11/05/21	11/10/21	
<i>Surrogate: n-Nonane</i>		119 %	50-200	11/05/21	11/10/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2145039	
Chloride	ND	40.0	2	11/04/21	11/06/21	



## Sample Data

Kaiser Francis Oil Company	Project Name:	Mosaic Federal 2419 WA	<b>Reported:</b> 11/15/2021 3:53:53PM
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

SS05-0'

E111022-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2145061	
Benzene	ND	0.0250	1	11/05/21	11/12/21	
Ethylbenzene	ND	0.0250	1	11/05/21	11/12/21	
Toluene	ND	0.0250	1	11/05/21	11/12/21	
o-Xylene	ND	0.0250	1	11/05/21	11/12/21	
p,m-Xylene	ND	0.0500	1	11/05/21	11/12/21	
Total Xylenes	ND	0.0250	1	11/05/21	11/12/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	94.9 %	70-130		11/05/21	11/12/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2145061	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/05/21	11/12/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	109 %	70-130		11/05/21	11/12/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2145062	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/05/21	11/10/21	
Oil Range Organics (C28-C36)	80.0	50.0	1	11/05/21	11/10/21	
<i>Surrogate: n-Nonane</i>	88.3 %	50-200		11/05/21	11/10/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2145039	
Chloride	53.5	20.0	1	11/04/21	11/06/21	



## Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Mosaic Federal 2419 WA Project Number: 21022-0001 Project Manager: Ashley Giovengo	Reported: 11/15/2021 3:53:53PM
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SS06-0'

E111022-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2145061	
Benzene	ND	0.0250	1	11/05/21	11/12/21	
Ethylbenzene	ND	0.0250	1	11/05/21	11/12/21	
Toluene	ND	0.0250	1	11/05/21	11/12/21	
o-Xylene	ND	0.0250	1	11/05/21	11/12/21	
p,m-Xylene	ND	0.0500	1	11/05/21	11/12/21	
Total Xylenes	ND	0.0250	1	11/05/21	11/12/21	
Surrogate: 4-Bromochlorobenzene-PID	96.5 %	70-130		11/05/21	11/12/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2145061	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/05/21	11/12/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID	106 %	70-130		11/05/21	11/12/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2145062	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/05/21	11/10/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/05/21	11/10/21	
Surrogate: n-Nonane	116 %	50-200		11/05/21	11/10/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2145039	
Chloride	ND	20.0	1	11/04/21	11/06/21	



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	Mosaic Federal 2419 WA	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/15/2021 3:53:53PM

## Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2145061-BLK1)

Prepared: 11/05/21 Analyzed: 11/11/21

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.66		8.00		95.7	70-130			

## LCS (2145061-BS1)

Prepared: 11/05/21 Analyzed: 11/11/21

Benzene	4.84	0.0250	5.00		96.9	70-130			
Ethylbenzene	4.70	0.0250	5.00		94.1	70-130			
Toluene	4.87	0.0250	5.00		97.5	70-130			
o-Xylene	4.78	0.0250	5.00		95.5	70-130			
p,m-Xylene	9.58	0.0500	10.0		95.8	70-130			
Total Xylenes	14.4	0.0250	15.0		95.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.17		8.00		102	70-130			

## LCS Dup (2145061-BS1)

Prepared: 11/05/21 Analyzed: 11/11/21

Benzene	4.58	0.0250	5.00		91.6	70-130	5.55	20	
Ethylbenzene	4.41	0.0250	5.00		88.1	70-130	6.56	20	
Toluene	4.58	0.0250	5.00		91.5	70-130	6.28	20	
o-Xylene	4.51	0.0250	5.00		90.3	70-130	5.63	20	
p,m-Xylene	8.98	0.0500	10.0		89.8	70-130	6.45	20	
Total Xylenes	13.5	0.0250	15.0		89.9	70-130	6.18	20	
Surrogate: 4-Bromochlorobenzene-PID	7.87		8.00		98.4	70-130			



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	Mosaic Federal 2419 WA	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/15/2021 3:53:53PM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2145061-BLK1)

Prepared: 11/05/21 Analyzed: 11/11/21

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.44		8.00		93.0	70-130			

## LCS (2145061-BS2)

Prepared: 11/05/21 Analyzed: 11/11/21

Gasoline Range Organics (C6-C10)	50.2	20.0	50.0		100	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.54		8.00		94.3	70-130			

## LCS Dup (2145061-BSD2)

Prepared: 11/05/21 Analyzed: 11/11/21

Gasoline Range Organics (C6-C10)	48.0	20.0	50.0		95.9	70-130	4.63	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.52		8.00		94.0	70-130			



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	Mosaic Federal 2419 WA	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/15/2021 3:53:53PM

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

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2145062-BLK1)

Prepared: 11/05/21 Analyzed: 11/09/21

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	61.0		50.0		122	50-200			

## LCS (2145062-BS1)

Prepared: 11/05/21 Analyzed: 11/09/21

Diesel Range Organics (C10-C28)	513	25.0	500		103	38-132			
Surrogate: n-Nonane	57.7		50.0		115	50-200			

## Matrix Spike (2145062-MS1)

Source: E111009-06

Prepared: 11/05/21 Analyzed: 11/10/21

Diesel Range Organics (C10-C28)	1250	25.0	500	609	128	38-132			
Surrogate: n-Nonane	57.4		50.0		115	50-200			

## Matrix Spike Dup (2145062-MSD1)

Source: E111009-06

Prepared: 11/05/21 Analyzed: 11/10/21

Diesel Range Organics (C10-C28)	1250	25.0	500	609	127	38-132	0.477	20	
Surrogate: n-Nonane	59.6		50.0		119	50-200			



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	Mosaic Federal 2419 WA	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/15/2021 3:53:53PM

## Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2145039-BLK1)

Prepared: 11/04/21 Analyzed: 11/05/21

Chloride ND 20.0

## LCS (2145039-BS1)

Prepared: 11/04/21 Analyzed: 11/05/21

Chloride 246 20.0 250 98.3 90-110

## LCS Dup (2145039-BSD1)

Prepared: 11/04/21 Analyzed: 11/05/21

Chloride 246 20.0 250 98.5 90-110 0.285 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:	Mosaic Federal 2419 WA	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	11/15/21 15:53

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

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

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



PO# 28948

Chain of Custody

Page 1 of 1

Client: KFOC  
 Project: Mosaic Federal 2419 w4  
 Project Manager: Ashley Giovenso #002H  
 Address: 1224 Standpipe Rd  
 City, State, Zip: Carlsbad, NM 88220  
 Phone: 505-382-1211  
 Email: ashley.giovenso@wescominc.com  
 Report due by:

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

Lab Use Only		TAT				EPA Program	
Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA
E111022	21022-0001				X		
Analysis and Method							
RCRA							

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BDOC NM	BDOC TX	Remarks
10:48	11/1/21	S	1 jar	SS01-4'	1							X		
10:40	11/1/21	S	1 jar	SS02-4'	2							X		
10:45	11/1/21	S	1 jar	BG01-0'	3							X		
10:51	11/1/21	S	1 jar	BG01-1'	4							X		
11:42	11/1/21	S	1 jar	SS03-0'	5							X		
11:23	11/1/21	S	1 jar	SS04-0'	6							X		
11:20	11/1/21	S	1 jar	SS05-0'	7							X		
11:29	11/1/21	S	1 jar	SS06-0'	8							X		

Additional Instructions: Preserved on ice, please cc shar.harvester@wescominc.com & cole.burton@wescominc.com

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

Sampled by: Ashley Giovenso

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N
Relinquished by: (Signature)	11/2/21	1045	Received by: (Signature)	11-2-21	1045	
Relinquished by: (Signature)	11-2-21	1115	Received by: (Signature)	11/2/21	22:00	
AVG Temp °C						4

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

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

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



envirotech

Received by OCD: 9/13/2022 2:38:07 PM

## Envirotech Analytical Laboratory

Printed: 11/2/2021 10:41:32PM

## 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:	11/02/21 22:00	Work Order ID:	E111022
Phone:	(505) 382-1211	Date Logged In:	11/02/21 22:37	Logged In By:	Alexa Michaels
Email:	ashley.giovengo@wescominc.com	Due Date:	11/10/21 17:00 (5 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

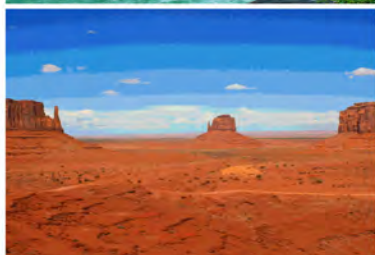
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:  
Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Kaiser Francis Oil Company

Project Name: Mosaic Federal 2419 WA #002H

Work Order: E208189

Job Number: 21022-0001

Received: 9/1/2022

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
9/2/22

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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

Date Reported: 9/2/22

Ashley Giovengo  
1224 Standpipe Rd  
Carlsbad, NM 88220



Project Name: Mosaic Federal 2419 WA #002H  
Workorder: E208189  
Date Received: 9/1/2022 10:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/1/2022 10:30:00AM, under the Project Name: Mosaic Federal 2419 WA #002H.

The analytical test results summarized in this report with the Project Name: Mosaic Federal 2419 WA #002H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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**Alexa Michaels**  
Sample Custody Officer  
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**Rayny Hagan**  
Technical Representative  
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Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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Chain of Custody etc.

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## Sample Summary

Kaiser Francis Oil Company	Project Name:	Mosaic Federal 2419 WA #002H	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	09/02/22 13:36

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CONF01 - 2'	E208189-01A	Soil	08/30/22	09/01/22	Glass Jar, 4 oz.
CONF02 - 1.5'	E208189-02A	Soil	08/30/22	09/01/22	Glass Jar, 4 oz.
CONF03 - 1.5'	E208189-03A	Soil	08/30/22	09/01/22	Glass Jar, 4 oz.
CONF04 - 1.5'	E208189-04A	Soil	08/30/22	09/01/22	Glass Jar, 4 oz.
CONF05 - 1.5'	E208189-05A	Soil	08/30/22	09/01/22	Glass Jar, 4 oz.
CONF06 - 1.5'	E208189-06A	Soil	08/30/22	09/01/22	Glass Jar, 4 oz.
CONF07 - 3'	E208189-07A	Soil	08/30/22	09/01/22	Glass Jar, 4 oz.
CONF08 - 2.5'	E208189-08A	Soil	08/30/22	09/01/22	Glass Jar, 4 oz.
CONF09 - 2'	E208189-09A	Soil	08/30/22	09/01/22	Glass Jar, 4 oz.
CONF10 - 1.5	E208189-10A	Soil	08/30/22	09/01/22	Glass Jar, 4 oz.
CONF11 - 1.5'	E208189-11A	Soil	08/30/22	09/01/22	Glass Jar, 4 oz.
CONF12 - 2.5'	E208189-12A	Soil	08/30/22	09/01/22	Glass Jar, 4 oz.
CONF13 - 2.5'	E208189-13A	Soil	08/30/22	09/01/22	Glass Jar, 4 oz.
CONF14 - 2.5'	E208189-14A	Soil	08/30/22	09/01/22	Glass Jar, 4 oz.



## Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Mosaic Federal 2419 WA #002H Project Number: 21022-0001 Project Manager: Ashley Giovengo	Reported: 9/2/2022 1:36:57PM
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## CONF01 - 2'

## E208189-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY			Batch: 2236052
Benzene	ND	0.0250	1	09/01/22	09/01/22	
Ethylbenzene	ND	0.0250	1	09/01/22	09/01/22	
Toluene	ND	0.0250	1	09/01/22	09/01/22	
o-Xylene	ND	0.0250	1	09/01/22	09/01/22	
p,m-Xylene	ND	0.0500	1	09/01/22	09/01/22	
Total Xylenes	ND	0.0250	1	09/01/22	09/01/22	
Surrogate: 4-Bromochlorobenzene-PID	107 %	70-130		09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY			Batch: 2236052
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/01/22	09/01/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID	105 %	70-130		09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL			Batch: 2236050
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	86.3 %	50-200		08/31/22	09/01/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS			Batch: 2236046
Chloride	404	20.0	1	08/31/22	09/01/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Mosaic Federal 2419 WA #002H  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
9/2/2022 1:36:57PM

## CONF02 - 1.5'

## E208189-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2236052	
Benzene	ND	0.0250	1	09/01/22	09/01/22	
Ethylbenzene	ND	0.0250	1	09/01/22	09/01/22	
Toluene	ND	0.0250	1	09/01/22	09/01/22	
o-Xylene	ND	0.0250	1	09/01/22	09/01/22	
p,m-Xylene	ND	0.0500	1	09/01/22	09/01/22	
Total Xylenes	ND	0.0250	1	09/01/22	09/01/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		107 %	70-130	09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2236052	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/01/22	09/01/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		101 %	70-130	09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2236050	
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	
<i>Surrogate: n-Nonane</i>		93.0 %	50-200	08/31/22	09/01/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2236046	
Chloride	261	20.0	1	08/31/22	09/01/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Mosaic Federal 2419 WA #002H  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
9/2/2022 1:36:57PM

## CONF03 - 1.5'

## E208189-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236052
Benzene	ND	0.0250	1	09/01/22	09/01/22	
Ethylbenzene	ND	0.0250	1	09/01/22	09/01/22	
Toluene	ND	0.0250	1	09/01/22	09/01/22	
o-Xylene	ND	0.0250	1	09/01/22	09/01/22	
p,m-Xylene	ND	0.0500	1	09/01/22	09/01/22	
Total Xylenes	ND	0.0250	1	09/01/22	09/01/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		107 %	70-130	09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236052
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/01/22	09/01/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		99.8 %	70-130	09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2236050
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	
<i>Surrogate: n-Nonane</i>						
		92.0 %	50-200	08/31/22	09/01/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236046
Chloride	280	20.0	1	08/31/22	09/01/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Mosaic Federal 2419 WA #002H  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
9/2/2022 1:36:57PM

## CONF04 - 1.5'

## E208189-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2236052	
Benzene	ND	0.0250	1	09/01/22	09/01/22	
Ethylbenzene	ND	0.0250	1	09/01/22	09/01/22	
Toluene	ND	0.0250	1	09/01/22	09/01/22	
o-Xylene	ND	0.0250	1	09/01/22	09/01/22	
p,m-Xylene	ND	0.0500	1	09/01/22	09/01/22	
Total Xylenes	ND	0.0250	1	09/01/22	09/01/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		108 %	70-130	09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2236052	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/01/22	09/01/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		99.1 %	70-130	09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2236050	
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	
<i>Surrogate: n-Nonane</i>		91.0 %	50-200	08/31/22	09/01/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2236046	
Chloride	67.3	20.0	1	08/31/22	09/01/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Mosaic Federal 2419 WA #002H  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
9/2/2022 1:36:57PM

## CONF05 - 1.5'

## E208189-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236052
Benzene	ND	0.0250	1	09/01/22	09/01/22	
Ethylbenzene	ND	0.0250	1	09/01/22	09/01/22	
Toluene	ND	0.0250	1	09/01/22	09/01/22	
o-Xylene	ND	0.0250	1	09/01/22	09/01/22	
p,m-Xylene	ND	0.0500	1	09/01/22	09/01/22	
Total Xylenes	ND	0.0250	1	09/01/22	09/01/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		106 %	70-130	09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236052
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/01/22	09/01/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		99.8 %	70-130	09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2236050
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	
<i>Surrogate: n-Nonane</i>						
		91.6 %	50-200	08/31/22	09/01/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236046
Chloride	151	20.0	1	08/31/22	09/01/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Mosaic Federal 2419 WA #002H  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
9/2/2022 1:36:57PM

## CONF06 - 1.5'

## E208189-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2236052	
Benzene	ND	0.0250	1	09/01/22	09/01/22	
Ethylbenzene	ND	0.0250	1	09/01/22	09/01/22	
Toluene	ND	0.0250	1	09/01/22	09/01/22	
o-Xylene	ND	0.0250	1	09/01/22	09/01/22	
p,m-Xylene	ND	0.0500	1	09/01/22	09/01/22	
Total Xylenes	ND	0.0250	1	09/01/22	09/01/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		105 %	70-130	09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2236052	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/01/22	09/01/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		100 %	70-130	09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2236050	
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	
<i>Surrogate: n-Nonane</i>						
		84.9 %	50-200	08/31/22	09/01/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2236046	
Chloride	249	20.0	1	08/31/22	09/01/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Mosaic Federal 2419 WA #002H  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
9/2/2022 1:36:57PM

CONF07 - 3'

E208189-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2236052	
Benzene	ND	0.0250	1	09/01/22	09/01/22	
Ethylbenzene	ND	0.0250	1	09/01/22	09/01/22	
Toluene	ND	0.0250	1	09/01/22	09/01/22	
o-Xylene	ND	0.0250	1	09/01/22	09/01/22	
p,m-Xylene	ND	0.0500	1	09/01/22	09/01/22	
Total Xylenes	ND	0.0250	1	09/01/22	09/01/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		106 %	70-130	09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2236052	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/01/22	09/01/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.4 %	70-130	09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2236050	
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	
<i>Surrogate: n-Nonane</i>						
		85.4 %	50-200	08/31/22	09/01/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2236046	
Chloride	941	200	10	08/31/22	09/01/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Mosaic Federal 2419 WA #002H  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
9/2/2022 1:36:57PM

## CONF08 - 2.5'

## E208189-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2236052	
Benzene	ND	0.0250	1	09/01/22	09/01/22	
Ethylbenzene	ND	0.0250	1	09/01/22	09/01/22	
Toluene	ND	0.0250	1	09/01/22	09/01/22	
o-Xylene	ND	0.0250	1	09/01/22	09/01/22	
p,m-Xylene	ND	0.0500	1	09/01/22	09/01/22	
Total Xylenes	ND	0.0250	1	09/01/22	09/01/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		107 %	70-130	09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2236052	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/01/22	09/01/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.2 %	70-130	09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2236050	
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	
<i>Surrogate: n-Nonane</i>		85.1 %	50-200	08/31/22	09/01/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2236046	
Chloride	463	40.0	2	08/31/22	09/01/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Mosaic Federal 2419 WA #002H  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
9/2/2022 1:36:57PM

## CONF09 - 2'

## E208189-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2236052	
Benzene	ND	0.0250	1	09/01/22	09/01/22	
Ethylbenzene	ND	0.0250	1	09/01/22	09/01/22	
Toluene	ND	0.0250	1	09/01/22	09/01/22	
o-Xylene	ND	0.0250	1	09/01/22	09/01/22	
p,m-Xylene	ND	0.0500	1	09/01/22	09/01/22	
Total Xylenes	ND	0.0250	1	09/01/22	09/01/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		104 %	70-130	09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2236052	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/01/22	09/01/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		97.2 %	70-130	09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2236050	
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	
<i>Surrogate: n-Nonane</i>		86.5 %	50-200	08/31/22	09/01/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2236046	
Chloride	121	40.0	2	08/31/22	09/01/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Mosaic Federal 2419 WA #002H  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
9/2/2022 1:36:57PM

## CONF10 - 1.5

## E208189-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2236052	
Benzene	ND	0.0250	1	09/01/22	09/01/22	
Ethylbenzene	ND	0.0250	1	09/01/22	09/01/22	
Toluene	ND	0.0250	1	09/01/22	09/01/22	
o-Xylene	ND	0.0250	1	09/01/22	09/01/22	
p,m-Xylene	ND	0.0500	1	09/01/22	09/01/22	
Total Xylenes	ND	0.0250	1	09/01/22	09/01/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		104 %	70-130	09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2236052	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/01/22	09/01/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		97.5 %	70-130	09/01/22	09/01/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2236050	
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	
<i>Surrogate: n-Nonane</i>		84.5 %	50-200	08/31/22	09/01/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2236046	
Chloride	444	20.0	1	08/31/22	09/01/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Mosaic Federal 2419 WA #002H  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
9/2/2022 1:36:57PM

## CONF11 - 1.5'

## E208189-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236052
Benzene	ND	0.0250	1	09/01/22	09/02/22	
Ethylbenzene	ND	0.0250	1	09/01/22	09/02/22	
Toluene	ND	0.0250	1	09/01/22	09/02/22	
o-Xylene	ND	0.0250	1	09/01/22	09/02/22	
p,m-Xylene	ND	0.0500	1	09/01/22	09/02/22	
Total Xylenes	ND	0.0250	1	09/01/22	09/02/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	09/01/22	09/02/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236052
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/01/22	09/02/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.8 %	70-130	09/01/22	09/02/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2236050
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	
<i>Surrogate: n-Nonane</i>						
		81.8 %	50-200	08/31/22	09/01/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236046
Chloride	119	40.0	2	08/31/22	09/02/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Mosaic Federal 2419 WA #002H  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
9/2/2022 1:36:57PM

## CONF12 - 2.5'

## E208189-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236052
Benzene	ND	0.0250	1	09/01/22	09/02/22	
Ethylbenzene	ND	0.0250	1	09/01/22	09/02/22	
Toluene	ND	0.0250	1	09/01/22	09/02/22	
o-Xylene	ND	0.0250	1	09/01/22	09/02/22	
p,m-Xylene	ND	0.0500	1	09/01/22	09/02/22	
Total Xylenes	ND	0.0250	1	09/01/22	09/02/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	09/01/22	09/02/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236052
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/01/22	09/02/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		99.2 %	70-130	09/01/22	09/02/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2236050
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	
<i>Surrogate: n-Nonane</i>						
		82.3 %	50-200	08/31/22	09/01/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2236046
Chloride	ND	100	5	08/31/22	09/02/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Mosaic Federal 2419 WA #002H  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
9/2/2022 1:36:57PM

## CONF13 - 2.5'

## E208189-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2236052	
Benzene	ND	0.0250	1	09/01/22	09/02/22	
Ethylbenzene	ND	0.0250	1	09/01/22	09/02/22	
Toluene	ND	0.0250	1	09/01/22	09/02/22	
o-Xylene	ND	0.0250	1	09/01/22	09/02/22	
p,m-Xylene	ND	0.0500	1	09/01/22	09/02/22	
Total Xylenes	ND	0.0250	1	09/01/22	09/02/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		105 %	70-130	09/01/22	09/02/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2236052	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/01/22	09/02/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		97.6 %	70-130	09/01/22	09/02/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2236050	
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	
<i>Surrogate: n-Nonane</i>		101 %	50-200	08/31/22	09/01/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2236046	
Chloride	ND	200	10	08/31/22	09/01/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Mosaic Federal 2419 WA #002H  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
9/2/2022 1:36:57PM

## CONF14 - 2.5'

## E208189-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2236052	
Benzene	ND	0.0250	1	09/01/22	09/02/22	
Ethylbenzene	ND	0.0250	1	09/01/22	09/02/22	
Toluene	ND	0.0250	1	09/01/22	09/02/22	
o-Xylene	ND	0.0250	1	09/01/22	09/02/22	
p,m-Xylene	ND	0.0500	1	09/01/22	09/02/22	
Total Xylenes	ND	0.0250	1	09/01/22	09/02/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		104 %	70-130	09/01/22	09/02/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2236052	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/01/22	09/02/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		98.3 %	70-130	09/01/22	09/02/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2236050	
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	
<i>Surrogate: n-Nonane</i>		100 %	50-200	08/31/22	09/01/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2236046	
Chloride	23.0	20.0	1	08/31/22	09/01/22	



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	Mosaic Federal 2419 WA #002H	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/2/2022 1:36:57PM

## Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2236052-BLK1)

Prepared: 08/31/22 Analyzed: 09/01/22

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	7.66		8.00		95.8	70-130			

## LCS (2236052-BS1)

Prepared: 08/31/22 Analyzed: 09/01/22

Benzene	4.91	0.0250	5.00		98.1	70-130			
Ethylbenzene	5.14	0.0250	5.00		103	70-130			
Toluene	5.18	0.0250	5.00		104	70-130			
o-Xylene	5.10	0.0250	5.00		102	70-130			
p,m-Xylene	10.4	0.0500	10.0		104	70-130			
Total Xylenes	15.5	0.0250	15.0		103	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.80		8.00		97.5	70-130			

## LCS Dup (2236052-BS1)

Prepared: 08/31/22 Analyzed: 09/01/22

Benzene	5.00	0.0250	5.00		99.9	70-130	1.85	20	
Ethylbenzene	5.26	0.0250	5.00		105	70-130	2.22	20	
Toluene	5.29	0.0250	5.00		106	70-130	2.03	20	
o-Xylene	5.21	0.0250	5.00		104	70-130	2.07	20	
p,m-Xylene	10.6	0.0500	10.0		106	70-130	2.25	20	
Total Xylenes	15.8	0.0250	15.0		105	70-130	2.19	20	
Surrogate: 4-Bromochlorobenzene-PID	7.77		8.00		97.1	70-130			



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	Mosaic Federal 2419 WA #002H	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/2/2022 1:36:57PM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2236052-BLK1)

Prepared: 08/31/22 Analyzed: 09/01/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.33		8.00		91.6	70-130			

## LCS (2236052-BS2)

Prepared: 08/31/22 Analyzed: 09/01/22

Gasoline Range Organics (C6-C10)	46.1	20.0	50.0		92.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.45		8.00		93.1	70-130			

## LCS Dup (2236052-BSD2)

Prepared: 08/31/22 Analyzed: 09/01/22

Gasoline Range Organics (C6-C10)	50.5	20.0	50.0		101	70-130	9.18	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.41		8.00		92.6	70-130			



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	Mosaic Federal 2419 WA #002H	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/2/2022 1:36:57PM

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

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2236050-BLK1)

Prepared: 08/31/22 Analyzed: 08/31/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	53.0		50.0		106	50-200			

## LCS (2236050-BS1)

Prepared: 08/31/22 Analyzed: 08/31/22

Diesel Range Organics (C10-C28)	243	25.0	250		97.0	38-132			
Surrogate: <i>n</i> -Nonane	53.1		50.0		106	50-200			

## LCS Dup (2236050-BSD1)

Prepared: 08/31/22 Analyzed: 08/31/22

Diesel Range Organics (C10-C28)	260	25.0	250		104	38-132	6.81	20	
Surrogate: <i>n</i> -Nonane	54.7		50.0		109	50-200			



QC Summary Data

Kaiser Francis Oil Company	Project Name:	Mosaic Federal 2419 WA #002H	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/2/2022 1:36:57PM

Anions by EPA 300.0/9056A

Analyst: RAS

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

Blank (2236046-BLK1)					Prepared: 08/31/22 Analyzed: 09/01/22				
Chloride	ND	20.0							
LCS (2236046-BS1)					Prepared: 08/31/22 Analyzed: 09/01/22				
Chloride	250	20.0	250		99.9	90-110			
LCS Dup (2236046-BSD1)					Prepared: 08/31/22 Analyzed: 09/01/22				
Chloride	251	20.0	250		100	90-110	0.617	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:	Mosaic Federal 2419 WA #002H	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	09/02/22 13:36

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

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

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

Released to Imaging: 12/12/2022 10:59:44 AM

Project Information

Chain of Custody

P O 38441

Page 1 of 2

Client: Kaiser Francis Oil Co		Bill To		Lab Use Only		TAT				EPA Program			
Project: Mosaic Federal 2419 WA #002H		Attention: Wescom Inc		Lab WO# E208189		Job Number 21022-6001		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Ashley Giovengo		Address: 1224 Standpipe Rd		City, State, Zip: Carlsbad, NM 88220		Phone: 505-382-1211		Analysis and Method		RCRA			
Address: 1224 Standpipe Rd		City, State, Zip: Carlsbad, NM 88220		Phone: 505-382-1211		Email: ashley.giovengo@wescominc.com		DRO/ORO by 8015		GRO/DRO by 8015		BTEX by 8021	
City, State, Zip: Carlsbad, NM 88220		Phone: 505-382-1211		Email: ashley.giovengo@wescominc.com		VOC by 8260		Metals 6010		Chloride 300.0		BGDOC NM	
Report due by:												BGDOC TX	
												State	
												NM CO UT AZ TX	
												Remarks	

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
15:27	8/30/22	Soil	1 Jar	CONF01 - 2'	1							X		
13:10	8/30/22	Soil	1 Jar	CONF02 - 1.5'	2							X		
13:11	8/30/22	Soil	1 Jar	CONF03 - 1.5'	3							X		
13:12	8/30/22	Soil	1 Jar	CONF04 - 1.5'	4							X		
13:15	8/30/22	Soil	1 Jar	CONF05 - 1.5'	5							X		
13:14	8/30/22	Soil	1 Jar	CONF06 - 1.5'	6							X		
16:26	8/30/22	Soil	1 Jar	CONF07 - 3'	7							X		
15:28	8/30/22	Soil	1 Jar	CONF08 - 2.5'	8							X		
15:50	8/30/22	Soil	1 Jar	CONF09 - 2'	9							X		
14:34	8/30/22	Soil	1 Jar	CONF10 - 1.5	10							X		

Additional Instructions: Kept on ice, Please CC: cole.burton@wescominc.com, shar.harvester@wescominc.com, ashley.giovengo@wescominc.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.				Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Lab Use Only	
[Signature]		8/31/22		4:15		[Signature]		9/1/22		9:00		Received on ice: [X] N	
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1 T2 T3	
[Signature]		8/31/22		4:15		[Signature]		9/1/22		10:30			
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		AVG Temp °C	
[Signature]		8/31/22		4:15		[Signature]		9/1/22		10:30		4	

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

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



Received by OCD: 9/13/2022 2:38:07 PM

Client: Kaiser Francis Oil Co		Bill To		Lab: Use Only				TAT				EPA Program									
Project: Mosaic Federal 2419 WA #002H		Attention: Wescom Inc		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA								
Project Manager: Ashley Giovengo		Address: 1224 Standpipe Rd		E208189		21022-0001		X													
Address: 1224 Standpipe Rd		City, State, Zip: Carlsbad, NM 88220		Analysis and Method									RCRA								
City, State, Zip: Carlsbad, NM 88220		Phone: 505-382-1211		<div> <div>NO by 8015</div> <div>NO by 8015</div> <div>8021</div> <div>8260</div> <div>86010</div> <div>300.0</div> <div></div> <div></div> <div>NM</div> <div>TX</div> </div>								State									
Phone: 505-382-1211		Email: ashley.giovengo@wescominc.com										NM		CO		UT		AZ		TX	
Email: ashley.giovengo@wescominc.com												X									
Report due by:																					

[illegible]

**Additional Instructions:** Kept on ice, Please CC: cole.burton@wescominc.com, shar.harvester@wescominc.com, ashley.giovengo@wescominc.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.						Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.	
Sampled by: _____							
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only	
<i>[Signature]</i>	8/31/22	8:15	<i>[Signature]</i>	8/31/22	9:00	Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time		
<i>[Signature]</i>	9/1/22	8:30	<i>[Signature]</i>	9/1/22	10:30	T1 _____ T2 _____ T3 _____	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	AVG Temp °C <u>4</u>	

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

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

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

## Envirotech Analytical Laboratory

Printed: 9/1/2022 11:53:56AM

## 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:	09/01/22 10:30	Work Order ID:	E208189
Phone:	(505) 382-1211	Date Logged In:	08/31/22 16:01	Logged In By:	Raina Schwanz
Email:	ashley.giovengo@wescominc.com	Due Date:	09/01/22 17:00 (0 day TAT)		

Chain of Custody (COC)

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

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

Carrier: UPSComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? No

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:  
Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Kaiser Francis Oil Company

Project Name: Mosaic 2419 WA #002H

Work Order: E209008

Job Number: 21022-0001

Received: 9/6/2022

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
9/7/22

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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

Date Reported: 9/7/22

Ashley Giovengo  
1224 Standpipe Rd  
Carlsbad, NM 88220



Project Name: Mosaic 2419 WA #002H  
Workorder: E209008  
Date Received: 9/6/2022 8:24:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/6/2022 8:24:00AM, under the Project Name: Mosaic 2419 WA #002H.

The analytical test results summarized in this report with the Project Name: Mosaic 2419 WA #002H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

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

Field Offices:

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

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

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

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## Sample Summary

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name:	Mosaic 2419 WA #002H	<b>Reported:</b>  09/07/22 14:55
	Project Number:	21022-0001	
	Project Manager:	Ashley Giovengo	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CONF15 - 2.5	E209008-01A	Soil	09/01/22	09/06/22	Glass Jar, 4 oz.
CONF16 - 2'	E209008-02A	Soil	09/01/22	09/06/22	Glass Jar, 4 oz.
CONF17 - 2'	E209008-03A	Soil	09/01/22	09/06/22	Glass Jar, 4 oz.
CONF18 - 2'	E209008-04A	Soil	09/01/22	09/06/22	Glass Jar, 4 oz.
CONF19 - 2'	E209008-05A	Soil	09/01/22	09/06/22	Glass Jar, 4 oz.
CONF20 - 2'	E209008-06A	Soil	09/01/22	09/06/22	Glass Jar, 4 oz.
CONF21 - 2.5'	E209008-07A	Soil	09/01/22	09/06/22	Glass Jar, 4 oz.
CONF22 - 2.5'	E209008-08A	Soil	09/01/22	09/06/22	Glass Jar, 4 oz.
CONF23 - 2.5	E209008-09A	Soil	09/01/22	09/06/22	Glass Jar, 4 oz.
CONF24 - 2.5'	E209008-10A	Soil	09/01/22	09/06/22	Glass Jar, 4 oz.
CONF25 - 2.5'	E209008-11A	Soil	09/01/22	09/06/22	Glass Jar, 4 oz.



## Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Mosaic 2419 WA #002H Project Number: 21022-0001 Project Manager: Ashley Giovengo	<b>Reported:</b> 9/7/2022 2:55:21PM
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### CONF15 - 2.5

#### E209008-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2237001
Benzene	ND	0.0250	1	09/06/22	09/06/22	
Ethylbenzene	ND	0.0250	1	09/06/22	09/06/22	
Toluene	ND	0.0250	1	09/06/22	09/06/22	
o-Xylene	ND	0.0250	1	09/06/22	09/06/22	
p,m-Xylene	ND	0.0500	1	09/06/22	09/06/22	
Total Xylenes	ND	0.0250	1	09/06/22	09/06/22	
<i>Surrogate: Bromofluorobenzene</i>	98.4 %	70-130		09/06/22	09/06/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	97.5 %	70-130		09/06/22	09/06/22	
<i>Surrogate: Toluene-d8</i>	95.0 %	70-130		09/06/22	09/06/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2237001
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/06/22	09/06/22	
<i>Surrogate: Bromofluorobenzene</i>	98.4 %	70-130		09/06/22	09/06/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	97.5 %	70-130		09/06/22	09/06/22	
<i>Surrogate: Toluene-d8</i>	95.0 %	70-130		09/06/22	09/06/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237003
Diesel Range Organics (C10-C28)	ND	25.0	1	09/06/22	09/06/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/06/22	09/06/22	
<i>Surrogate: n-Nonane</i>	107 %	50-200		09/06/22	09/06/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2237002
Chloride	184	100	5	09/06/22	09/06/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Mosaic 2419 WA #002H  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
9/7/2022 2:55:21PM

## CONF16 - 2'

## E209008-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2237001
Benzene	ND	0.0250	1	09/06/22	09/06/22	
Ethylbenzene	ND	0.0250	1	09/06/22	09/06/22	
Toluene	ND	0.0250	1	09/06/22	09/06/22	
o-Xylene	ND	0.0250	1	09/06/22	09/06/22	
p,m-Xylene	ND	0.0500	1	09/06/22	09/06/22	
Total Xylenes	ND	0.0250	1	09/06/22	09/06/22	
Surrogate: Bromofluorobenzene	98.3 %	70-130		09/06/22	09/06/22	
Surrogate: 1,2-Dichloroethane-d4	96.2 %	70-130		09/06/22	09/06/22	
Surrogate: Toluene-d8	97.7 %	70-130		09/06/22	09/06/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2237001
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/06/22	09/06/22	
Surrogate: Bromofluorobenzene	98.3 %	70-130		09/06/22	09/06/22	
Surrogate: 1,2-Dichloroethane-d4	96.2 %	70-130		09/06/22	09/06/22	
Surrogate: Toluene-d8	97.7 %	70-130		09/06/22	09/06/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237003
Diesel Range Organics (C10-C28)	ND	25.0	1	09/06/22	09/06/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/06/22	09/06/22	
Surrogate: n-Nonane	112 %	50-200		09/06/22	09/06/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2237002
Chloride	ND	40.0	2	09/06/22	09/06/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Mosaic 2419 WA #002H  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
9/7/2022 2:55:21PM

## CONF17 - 2'

## E209008-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2237001
Benzene	ND	0.0250	1	09/06/22	09/06/22	
Ethylbenzene	ND	0.0250	1	09/06/22	09/06/22	
Toluene	ND	0.0250	1	09/06/22	09/06/22	
o-Xylene	ND	0.0250	1	09/06/22	09/06/22	
p,m-Xylene	ND	0.0500	1	09/06/22	09/06/22	
Total Xylenes	ND	0.0250	1	09/06/22	09/06/22	
Surrogate: Bromofluorobenzene	97.4 %	70-130		09/06/22	09/06/22	
Surrogate: 1,2-Dichloroethane-d4	99.3 %	70-130		09/06/22	09/06/22	
Surrogate: Toluene-d8	96.5 %	70-130		09/06/22	09/06/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2237001
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/06/22	09/06/22	
Surrogate: Bromofluorobenzene	97.4 %	70-130		09/06/22	09/06/22	
Surrogate: 1,2-Dichloroethane-d4	99.3 %	70-130		09/06/22	09/06/22	
Surrogate: Toluene-d8	96.5 %	70-130		09/06/22	09/06/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237003
Diesel Range Organics (C10-C28)	ND	25.0	1	09/06/22	09/06/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/06/22	09/06/22	
Surrogate: n-Nonane	93.4 %	50-200		09/06/22	09/06/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2237002
Chloride	ND	40.0	2	09/06/22	09/06/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Mosaic 2419 WA #002H  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
9/7/2022 2:55:21PM

## CONF18 - 2'

## E209008-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2237001
Benzene	ND	0.0250	1	09/06/22	09/06/22	
Ethylbenzene	ND	0.0250	1	09/06/22	09/06/22	
Toluene	ND	0.0250	1	09/06/22	09/06/22	
o-Xylene	ND	0.0250	1	09/06/22	09/06/22	
p,m-Xylene	ND	0.0500	1	09/06/22	09/06/22	
Total Xylenes	ND	0.0250	1	09/06/22	09/06/22	
Surrogate: Bromofluorobenzene	98.3 %	70-130		09/06/22	09/06/22	
Surrogate: 1,2-Dichloroethane-d4	97.9 %	70-130		09/06/22	09/06/22	
Surrogate: Toluene-d8	96.6 %	70-130		09/06/22	09/06/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2237001
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/06/22	09/06/22	
Surrogate: Bromofluorobenzene	98.3 %	70-130		09/06/22	09/06/22	
Surrogate: 1,2-Dichloroethane-d4	97.9 %	70-130		09/06/22	09/06/22	
Surrogate: Toluene-d8	96.6 %	70-130		09/06/22	09/06/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237003
Diesel Range Organics (C10-C28)	ND	25.0	1	09/06/22	09/06/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/06/22	09/06/22	
Surrogate: n-Nonane	112 %	50-200		09/06/22	09/06/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2237002
Chloride	ND	40.0	2	09/06/22	09/06/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Mosaic 2419 WA #002H  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
9/7/2022 2:55:21PM

## CONF19 - 2'

## E209008-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2237001
Benzene	ND	0.0250	1	09/06/22	09/06/22	
Ethylbenzene	ND	0.0250	1	09/06/22	09/06/22	
Toluene	ND	0.0250	1	09/06/22	09/06/22	
o-Xylene	ND	0.0250	1	09/06/22	09/06/22	
p,m-Xylene	ND	0.0500	1	09/06/22	09/06/22	
Total Xylenes	ND	0.0250	1	09/06/22	09/06/22	
Surrogate: Bromofluorobenzene	97.9 %	70-130		09/06/22	09/06/22	
Surrogate: 1,2-Dichloroethane-d4	92.8 %	70-130		09/06/22	09/06/22	
Surrogate: Toluene-d8	97.5 %	70-130		09/06/22	09/06/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2237001
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/06/22	09/06/22	
Surrogate: Bromofluorobenzene	97.9 %	70-130		09/06/22	09/06/22	
Surrogate: 1,2-Dichloroethane-d4	92.8 %	70-130		09/06/22	09/06/22	
Surrogate: Toluene-d8	97.5 %	70-130		09/06/22	09/06/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237003
Diesel Range Organics (C10-C28)	ND	25.0	1	09/06/22	09/06/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/06/22	09/06/22	
Surrogate: n-Nonane	115 %	50-200		09/06/22	09/06/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2237002
Chloride	ND	40.0	2	09/06/22	09/06/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Mosaic 2419 WA #002H  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
9/7/2022 2:55:21PM

## CONF20 - 2'

## E209008-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2237001
Benzene	ND	0.0250	1	09/06/22	09/06/22	
Ethylbenzene	ND	0.0250	1	09/06/22	09/06/22	
Toluene	ND	0.0250	1	09/06/22	09/06/22	
o-Xylene	ND	0.0250	1	09/06/22	09/06/22	
p,m-Xylene	ND	0.0500	1	09/06/22	09/06/22	
Total Xylenes	ND	0.0250	1	09/06/22	09/06/22	
Surrogate: Bromofluorobenzene	96.5 %	70-130		09/06/22	09/06/22	
Surrogate: 1,2-Dichloroethane-d4	96.0 %	70-130		09/06/22	09/06/22	
Surrogate: Toluene-d8	96.7 %	70-130		09/06/22	09/06/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2237001
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/06/22	09/06/22	
Surrogate: Bromofluorobenzene	96.5 %	70-130		09/06/22	09/06/22	
Surrogate: 1,2-Dichloroethane-d4	96.0 %	70-130		09/06/22	09/06/22	
Surrogate: Toluene-d8	96.7 %	70-130		09/06/22	09/06/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237003
Diesel Range Organics (C10-C28)	ND	25.0	1	09/06/22	09/06/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/06/22	09/06/22	
Surrogate: n-Nonane	112 %	50-200		09/06/22	09/06/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2237002
Chloride	151	40.0	2	09/06/22	09/06/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Mosaic 2419 WA #002H  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
9/7/2022 2:55:21PM

## CONF21 - 2.5'

## E209008-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2237001
Benzene	ND	0.0250	1	09/06/22	09/06/22	
Ethylbenzene	ND	0.0250	1	09/06/22	09/06/22	
Toluene	ND	0.0250	1	09/06/22	09/06/22	
o-Xylene	ND	0.0250	1	09/06/22	09/06/22	
p,m-Xylene	ND	0.0500	1	09/06/22	09/06/22	
Total Xylenes	ND	0.0250	1	09/06/22	09/06/22	
Surrogate: Bromofluorobenzene		101 %	70-130	09/06/22	09/06/22	
Surrogate: 1,2-Dichloroethane-d4		92.3 %	70-130	09/06/22	09/06/22	
Surrogate: Toluene-d8		107 %	70-130	09/06/22	09/06/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2237001
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/06/22	09/06/22	
Surrogate: Bromofluorobenzene		101 %	70-130	09/06/22	09/06/22	
Surrogate: 1,2-Dichloroethane-d4		92.3 %	70-130	09/06/22	09/06/22	
Surrogate: Toluene-d8		107 %	70-130	09/06/22	09/06/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237003
Diesel Range Organics (C10-C28)	ND	25.0	1	09/06/22	09/06/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/06/22	09/06/22	
Surrogate: n-Nonane		100 %	50-200	09/06/22	09/06/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2237002
Chloride	ND	100	5	09/06/22	09/06/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Mosaic 2419 WA #002H  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
9/7/2022 2:55:21PM

## CONF22 - 2.5'

## E209008-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2237001
Benzene	ND	0.0250	1	09/06/22	09/06/22	
Ethylbenzene	ND	0.0250	1	09/06/22	09/06/22	
Toluene	ND	0.0250	1	09/06/22	09/06/22	
o-Xylene	ND	0.0250	1	09/06/22	09/06/22	
p,m-Xylene	ND	0.0500	1	09/06/22	09/06/22	
Total Xylenes	ND	0.0250	1	09/06/22	09/06/22	
Surrogate: Bromofluorobenzene		102 %	70-130	09/06/22	09/06/22	
Surrogate: 1,2-Dichloroethane-d4		99.9 %	70-130	09/06/22	09/06/22	
Surrogate: Toluene-d8		104 %	70-130	09/06/22	09/06/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2237001
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/06/22	09/06/22	
Surrogate: Bromofluorobenzene		102 %	70-130	09/06/22	09/06/22	
Surrogate: 1,2-Dichloroethane-d4		99.9 %	70-130	09/06/22	09/06/22	
Surrogate: Toluene-d8		104 %	70-130	09/06/22	09/06/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237003
Diesel Range Organics (C10-C28)	ND	25.0	1	09/06/22	09/06/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/06/22	09/06/22	
Surrogate: n-Nonane		104 %	50-200	09/06/22	09/06/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2237002
Chloride	297	40.0	2	09/06/22	09/06/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Mosaic 2419 WA #002H  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
9/7/2022 2:55:21PM

## CONF23 - 2.5

## E209008-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2237001
Benzene	ND	0.0250	1	09/06/22	09/06/22	
Ethylbenzene	ND	0.0250	1	09/06/22	09/06/22	
Toluene	ND	0.0250	1	09/06/22	09/06/22	
o-Xylene	ND	0.0250	1	09/06/22	09/06/22	
p,m-Xylene	ND	0.0500	1	09/06/22	09/06/22	
Total Xylenes	ND	0.0250	1	09/06/22	09/06/22	
Surrogate: Bromofluorobenzene		100 %	70-130	09/06/22	09/06/22	
Surrogate: 1,2-Dichloroethane-d4		97.9 %	70-130	09/06/22	09/06/22	
Surrogate: Toluene-d8		106 %	70-130	09/06/22	09/06/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2237001
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/06/22	09/06/22	
Surrogate: Bromofluorobenzene		100 %	70-130	09/06/22	09/06/22	
Surrogate: 1,2-Dichloroethane-d4		97.9 %	70-130	09/06/22	09/06/22	
Surrogate: Toluene-d8		106 %	70-130	09/06/22	09/06/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237003
Diesel Range Organics (C10-C28)	ND	25.0	1	09/06/22	09/06/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/06/22	09/06/22	
Surrogate: n-Nonane		107 %	50-200	09/06/22	09/06/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2237002
Chloride	ND	100	5	09/06/22	09/06/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Mosaic 2419 WA #002H  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
9/7/2022 2:55:21PM

## CONF24 - 2.5'

## E209008-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2237001
Benzene	ND	0.0250	1	09/06/22	09/06/22	
Ethylbenzene	ND	0.0250	1	09/06/22	09/06/22	
Toluene	ND	0.0250	1	09/06/22	09/06/22	
o-Xylene	ND	0.0250	1	09/06/22	09/06/22	
p,m-Xylene	ND	0.0500	1	09/06/22	09/06/22	
Total Xylenes	ND	0.0250	1	09/06/22	09/06/22	
Surrogate: Bromofluorobenzene	98.1 %	70-130		09/06/22	09/06/22	
Surrogate: 1,2-Dichloroethane-d4	97.5 %	70-130		09/06/22	09/06/22	
Surrogate: Toluene-d8	105 %	70-130		09/06/22	09/06/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2237001
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/06/22	09/06/22	
Surrogate: Bromofluorobenzene	98.1 %	70-130		09/06/22	09/06/22	
Surrogate: 1,2-Dichloroethane-d4	97.5 %	70-130		09/06/22	09/06/22	
Surrogate: Toluene-d8	105 %	70-130		09/06/22	09/06/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237003
Diesel Range Organics (C10-C28)	ND	25.0	1	09/06/22	09/06/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/06/22	09/06/22	
Surrogate: n-Nonane	90.8 %	50-200		09/06/22	09/06/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2237002
Chloride	ND	200	10	09/06/22	09/06/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Mosaic 2419 WA #002H  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
9/7/2022 2:55:21PM

## CONF25 - 2.5'

## E209008-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2237001
Benzene	ND	0.0250	1	09/06/22	09/06/22	
Ethylbenzene	ND	0.0250	1	09/06/22	09/06/22	
Toluene	ND	0.0250	1	09/06/22	09/06/22	
o-Xylene	ND	0.0250	1	09/06/22	09/06/22	
p,m-Xylene	ND	0.0500	1	09/06/22	09/06/22	
Total Xylenes	ND	0.0250	1	09/06/22	09/06/22	
Surrogate: Bromofluorobenzene	99.3 %	70-130		09/06/22	09/06/22	
Surrogate: 1,2-Dichloroethane-d4	98.8 %	70-130		09/06/22	09/06/22	
Surrogate: Toluene-d8	106 %	70-130		09/06/22	09/06/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2237001
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/06/22	09/06/22	
Surrogate: Bromofluorobenzene	99.3 %	70-130		09/06/22	09/06/22	
Surrogate: 1,2-Dichloroethane-d4	98.8 %	70-130		09/06/22	09/06/22	
Surrogate: Toluene-d8	106 %	70-130		09/06/22	09/06/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237003
Diesel Range Organics (C10-C28)	ND	25.0	1	09/06/22	09/06/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/06/22	09/06/22	
Surrogate: n-Nonane	95.8 %	50-200		09/06/22	09/06/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2237002
Chloride	ND	200	10	09/06/22	09/06/22	



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	Mosaic 2419 WA #002H	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/7/2022 2:55:21PM

## Volatile Organic Compounds by EPA 8260B

Analyst: RKS

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

## Blank (2237001-BLK1)

Prepared: 09/06/22 Analyzed: 09/06/22

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	0.504		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.497		0.500		99.4	70-130			
Surrogate: Toluene-d8	0.479		0.500		95.7	70-130			

## LCS (2237001-BS1)

Prepared: 09/06/22 Analyzed: 09/06/22

Benzene	2.28	0.0250	2.50		91.1	70-130			
Ethylbenzene	2.32	0.0250	2.50		92.8	70-130			
Toluene	2.16	0.0250	2.50		86.4	70-130			
o-Xylene	2.37	0.0250	2.50		95.0	70-130			
p,m-Xylene	4.63	0.0500	5.00		92.5	70-130			
Total Xylenes	7.00	0.0250	7.50		93.3	70-130			
Surrogate: Bromofluorobenzene	0.525		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.503		0.500		101	70-130			
Surrogate: Toluene-d8	0.480		0.500		96.0	70-130			

## LCS Dup (2237001-BSD1)

Prepared: 09/06/22 Analyzed: 09/06/22

Benzene	2.30	0.0250	2.50		92.1	70-130	1.09	23	
Ethylbenzene	2.32	0.0250	2.50		92.8	70-130	0.0647	27	
Toluene	2.16	0.0250	2.50		86.2	70-130	0.209	24	
o-Xylene	2.38	0.0250	2.50		95.1	70-130	0.126	27	
p,m-Xylene	4.60	0.0500	5.00		92.0	70-130	0.553	27	
Total Xylenes	6.98	0.0250	7.50		93.0	70-130	0.322	27	
Surrogate: Bromofluorobenzene	0.520		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.504		0.500		101	70-130			
Surrogate: Toluene-d8	0.474		0.500		94.8	70-130			



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	Mosaic 2419 WA #002H	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/7/2022 2:55:21PM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2237001-BLK1)

Prepared: 09/06/22 Analyzed: 09/06/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.504		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.497		0.500		99.4	70-130			
Surrogate: Toluene-d8	0.479		0.500		95.7	70-130			

## LCS (2237001-BS2)

Prepared: 09/06/22 Analyzed: 09/06/22

Gasoline Range Organics (C6-C10)	44.5	20.0	50.0		88.9	70-130			
Surrogate: Bromofluorobenzene	0.512		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.1	70-130			
Surrogate: Toluene-d8	0.492		0.500		98.4	70-130			

## LCS Dup (2237001-BSD2)

Prepared: 09/06/22 Analyzed: 09/06/22

Gasoline Range Organics (C6-C10)	44.4	20.0	50.0		88.9	70-130	0.0202	20	
Surrogate: Bromofluorobenzene	0.499		0.500		99.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.503		0.500		101	70-130			
Surrogate: Toluene-d8	0.481		0.500		96.2	70-130			



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	Mosaic 2419 WA #002H	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/7/2022 2:55:21PM

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

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2237003-BLK1)

Prepared: 09/06/22 Analyzed: 09/06/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	59.3		50.0		119	50-200			

## LCS (2237003-BS1)

Prepared: 09/06/22 Analyzed: 09/06/22

Diesel Range Organics (C10-C28)	230	25.0	250		92.0	38-132			
Surrogate: n-Nonane	54.2		50.0		108	50-200			

## Matrix Spike (2237003-MS1)

Source: E209008-03

Prepared: 09/06/22 Analyzed: 09/06/22

Diesel Range Organics (C10-C28)	234	25.0	250	ND	93.7	38-132			
Surrogate: n-Nonane	47.9		50.0		95.7	50-200			

## Matrix Spike Dup (2237003-MSD1)

Source: E209008-03

Prepared: 09/06/22 Analyzed: 09/06/22

Diesel Range Organics (C10-C28)	245	25.0	250	ND	98.0	38-132	4.47	20	
Surrogate: n-Nonane	42.7		50.0		85.4	50-200			



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	Mosaic 2419 WA #002H	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/7/2022 2:55:21PM

## Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2237002-BLK1)

Prepared: 09/06/22 Analyzed: 09/06/22

Chloride	ND	20.0							
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## LCS (2237002-BS1)

Prepared: 09/06/22 Analyzed: 09/06/22

Chloride	246	20.0	250		98.3	90-110			
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## LCS Dup (2237002-BSD1)

Prepared: 09/06/22 Analyzed: 09/06/22

Chloride	246	20.0	250		98.4	90-110	0.171	20	
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## QC Summary Report Comment:

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



Definitions and Notes

Kaiser Francis Oil Company	Project Name:	Mosaic 2419 WA #002H	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	09/07/22 14:55

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

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

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

Released to Imaging: 12/12/2022 10:59:44 AM

Project Information

Chain of Custody

PC 38548

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Client: Kaiser Francis Oil Co		Bill To		Lab Use Only		TAT				EPA Program			
Project: Mosaic 2419 WA #002H		Attention: Wescom Inc		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Ashley Giovengo		Address: 1224 Standpipe Rd		E209008		21522-001		X					
Address: 1224 Standpipe Rd		City, State, Zip: Carlsbad, NM 88220		Analysis and Method									
City, State, Zip: Carlsbad, NM 88220		Phone: 505-382-1211		RCRA									
Phone: 505-382-1211		Email: ashley.giovengo@wescominc.com		State									
Email: ashley.giovengo@wescominc.com				NM CO UT AZ TX									
Report due by:				X									

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BDOC NM	BDOC TX	Remarks
10:46	9/1/22	Soil	1 Jar	CONF15 - 2.5	1							X		
10:53	9/1/22	Soil	1 Jar	CONF16 - 2'	2							X		
10:51	9/1/22	Soil	1 Jar	CONF17 - 2'	3							X		
13:22	9/1/22	Soil	1 Jar	CONF18 - 2'	4							X		
13:28	9/1/22	Soil	1 Jar	CONF19 - 2'	5							X		
13:29	9/1/22	Soil	1 Jar	CONF20 - 2'	6							X		
13:30	9/1/22	Soil	1 Jar	CONF21 - 2.5'	7							X		
15:43	9/1/22	Soil	1 Jar	CONF22 - 2.5'	8							X		
14:46	9/1/22	Soil	1 Jar	CONF23 - 2.5	9							X		
14:48	9/1/22	Soil	1 Jar	CONF24 - 2.5'	10							X		

Additional Instructions: Kept on ice, Please CC: cole.burton@wescominc.com, shar.harvester@wescominc.com, ashley.giovengo@wescominc.com

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only		
<i>[Signature]</i>	9-1-22	1:30	<i>[Signature]</i>	9-2-22	12:00	Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N		
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1	T2	T3
<i>[Signature]</i>	9-2-22	4:15	<i>[Signature]</i>	9/6/22	8:24			
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	AVG Temp °C		
						4		

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

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

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



Received by OCD: 9/13/2022 2:38:07 PM

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[illegible]

## Envirotech Analytical Laboratory

Printed: 9/6/2022 10:31:30AM

## 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:	09/06/22 08:24	Work Order ID:	E209008
Phone:	(505) 382-1211	Date Logged In:	09/06/22 08:32	Logged In By:	Caitlin Christian
Email:	ashley.giovengo@wescominc.com	Due Date:	09/06/22 17:00 (0 day TAT)		

Chain of Custody (COC)

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

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

Carrier: UPSComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? No

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:  
Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Kaiser Francis Oil Company

Project Name: Mosaic Fed 2419 WA2H 10.13.21  
Spill

Work Order: E209007

Job Number: 21022-0001

Received: 9/6/2022

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
9/7/22

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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

Date Reported: 9/7/22

Ashley Giovengo  
1224 Standpipe Rd  
Carlsbad, NM 88220



Project Name: Mosaic Fed 2419 WA2H 10.13.21 Spill  
Workorder: E209007  
Date Received: 9/6/2022 8:24:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/6/2022 8:24:00AM, under the Project Name: Mosaic Fed 2419 WA2H 10.13.21 Spill.

The analytical test results summarized in this report with the Project Name: Mosaic Fed 2419 WA2H 10.13.21 Spill apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

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

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**Sample Summary**

Kaiser Francis Oil Company	Project Name:	Mosaic Fed 2419 WA2H 10.13.21 Spill	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	09/07/22 14:53

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CONF26 - 0.5'	E209007-01A	Soil	09/02/22	09/06/22	Glass Jar, 4 oz.
CONF27 - 0.5'	E209007-02A	Soil	09/02/22	09/06/22	Glass Jar, 4 oz.
CONF28 - 0.5'	E209007-03A	Soil	09/02/22	09/06/22	Glass Jar, 4 oz.



## Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Mosaic Fed 2419 WA2H 10.13.21 Spill Project Number: 21022-0001 Project Manager: Ashley Giovengo	Reported: 9/7/2022 2:53:28PM
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## CONF26 - 0.5'

## E209007-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2237001
Benzene	ND	0.0250	1	09/06/22	09/06/22	
Ethylbenzene	ND	0.0250	1	09/06/22	09/06/22	
Toluene	ND	0.0250	1	09/06/22	09/06/22	
o-Xylene	ND	0.0250	1	09/06/22	09/06/22	
p,m-Xylene	ND	0.0500	1	09/06/22	09/06/22	
Total Xylenes	ND	0.0250	1	09/06/22	09/06/22	
Surrogate: Bromofluorobenzene	102 %	70-130		09/06/22	09/06/22	
Surrogate: 1,2-Dichloroethane-d4	93.1 %	70-130		09/06/22	09/06/22	
Surrogate: Toluene-d8	104 %	70-130		09/06/22	09/06/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2237001
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/06/22	09/06/22	
Surrogate: Bromofluorobenzene	102 %	70-130		09/06/22	09/06/22	
Surrogate: 1,2-Dichloroethane-d4	93.1 %	70-130		09/06/22	09/06/22	
Surrogate: Toluene-d8	104 %	70-130		09/06/22	09/06/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237003
Diesel Range Organics (C10-C28)	31.9	25.0	1	09/06/22	09/06/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/06/22	09/06/22	
Surrogate: n-Nonane	87.7 %	50-200		09/06/22	09/06/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2237002
Chloride	154	20.0	1	09/06/22	09/06/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Mosaic Fed 2419 WA2H 10.13.21 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
9/7/2022 2:53:28PM

## CONF27 - 0.5'

## E209007-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2237001
Benzene	ND	0.0250	1	09/06/22	09/06/22	
Ethylbenzene	ND	0.0250	1	09/06/22	09/06/22	
Toluene	ND	0.0250	1	09/06/22	09/06/22	
o-Xylene	ND	0.0250	1	09/06/22	09/06/22	
p,m-Xylene	ND	0.0500	1	09/06/22	09/06/22	
Total Xylenes	ND	0.0250	1	09/06/22	09/06/22	
Surrogate: Bromofluorobenzene		102 %	70-130	09/06/22	09/06/22	
Surrogate: 1,2-Dichloroethane-d4		96.7 %	70-130	09/06/22	09/06/22	
Surrogate: Toluene-d8		104 %	70-130	09/06/22	09/06/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2237001
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/06/22	09/06/22	
Surrogate: Bromofluorobenzene		102 %	70-130	09/06/22	09/06/22	
Surrogate: 1,2-Dichloroethane-d4		96.7 %	70-130	09/06/22	09/06/22	
Surrogate: Toluene-d8		104 %	70-130	09/06/22	09/06/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237003
Diesel Range Organics (C10-C28)	ND	25.0	1	09/06/22	09/06/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/06/22	09/06/22	
Surrogate: n-Nonane		95.7 %	50-200	09/06/22	09/06/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2237002
Chloride	252	20.0	1	09/06/22	09/06/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Mosaic Fed 2419 WA2H 10.13.21 Spill  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
9/7/2022 2:53:28PM

## CONF28 - 0.5'

## E209007-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2237001
Benzene	ND	0.0250	1	09/06/22	09/06/22	
Ethylbenzene	ND	0.0250	1	09/06/22	09/06/22	
Toluene	ND	0.0250	1	09/06/22	09/06/22	
o-Xylene	ND	0.0250	1	09/06/22	09/06/22	
p,m-Xylene	ND	0.0500	1	09/06/22	09/06/22	
Total Xylenes	ND	0.0250	1	09/06/22	09/06/22	
Surrogate: Bromofluorobenzene	97.6 %	70-130		09/06/22	09/06/22	
Surrogate: 1,2-Dichloroethane-d4	93.8 %	70-130		09/06/22	09/06/22	
Surrogate: Toluene-d8	106 %	70-130		09/06/22	09/06/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2237001
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/06/22	09/06/22	
Surrogate: Bromofluorobenzene	97.6 %	70-130		09/06/22	09/06/22	
Surrogate: 1,2-Dichloroethane-d4	93.8 %	70-130		09/06/22	09/06/22	
Surrogate: Toluene-d8	106 %	70-130		09/06/22	09/06/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237003
Diesel Range Organics (C10-C28)	44.9	25.0	1	09/06/22	09/06/22	
Oil Range Organics (C28-C36)	58.9	50.0	1	09/06/22	09/06/22	
Surrogate: n-Nonane	106 %	50-200		09/06/22	09/06/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2237002
Chloride	419	20.0	1	09/06/22	09/06/22	



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	Mosaic Fed 2419 WA2H 10.13.21 Spill	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/7/2022 2:53:28PM

## Volatile Organic Compounds by EPA 8260B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2237001-BLK1)

Prepared: 09/06/22 Analyzed: 09/06/22

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	0.504		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.497		0.500		99.4	70-130			
Surrogate: Toluene-d8	0.479		0.500		95.7	70-130			

## LCS (2237001-BS1)

Prepared: 09/06/22 Analyzed: 09/06/22

Benzene	2.28	0.0250	2.50		91.1	70-130			
Ethylbenzene	2.32	0.0250	2.50		92.8	70-130			
Toluene	2.16	0.0250	2.50		86.4	70-130			
o-Xylene	2.37	0.0250	2.50		95.0	70-130			
p,m-Xylene	4.63	0.0500	5.00		92.5	70-130			
Total Xylenes	7.00	0.0250	7.50		93.3	70-130			
Surrogate: Bromofluorobenzene	0.525		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.503		0.500		101	70-130			
Surrogate: Toluene-d8	0.480		0.500		96.0	70-130			

## LCS Dup (2237001-BSD1)

Prepared: 09/06/22 Analyzed: 09/06/22

Benzene	2.30	0.0250	2.50		92.1	70-130	1.09	23	
Ethylbenzene	2.32	0.0250	2.50		92.8	70-130	0.0647	27	
Toluene	2.16	0.0250	2.50		86.2	70-130	0.209	24	
o-Xylene	2.38	0.0250	2.50		95.1	70-130	0.126	27	
p,m-Xylene	4.60	0.0500	5.00		92.0	70-130	0.553	27	
Total Xylenes	6.98	0.0250	7.50		93.0	70-130	0.322	27	
Surrogate: Bromofluorobenzene	0.520		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.504		0.500		101	70-130			
Surrogate: Toluene-d8	0.474		0.500		94.8	70-130			



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	Mosaic Fed 2419 WA2H 10.13.21 Spill	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/7/2022 2:53:28PM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2237001-BLK1)

Prepared: 09/06/22 Analyzed: 09/06/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.504		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.497		0.500		99.4	70-130			
Surrogate: Toluene-d8	0.479		0.500		95.7	70-130			

## LCS (2237001-BS2)

Prepared: 09/06/22 Analyzed: 09/06/22

Gasoline Range Organics (C6-C10)	44.5	20.0	50.0		88.9	70-130			
Surrogate: Bromofluorobenzene	0.512		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.1	70-130			
Surrogate: Toluene-d8	0.492		0.500		98.4	70-130			

## LCS Dup (2237001-BSD2)

Prepared: 09/06/22 Analyzed: 09/06/22

Gasoline Range Organics (C6-C10)	44.4	20.0	50.0		88.9	70-130	0.0202	20	
Surrogate: Bromofluorobenzene	0.499		0.500		99.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.503		0.500		101	70-130			
Surrogate: Toluene-d8	0.481		0.500		96.2	70-130			



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	Mosaic Fed 2419 WA2H 10.13.21 Spill	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/7/2022 2:53:28PM

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

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2237003-BLK1)

Prepared: 09/06/22 Analyzed: 09/06/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	59.3		50.0		119	50-200			

## LCS (2237003-BS1)

Prepared: 09/06/22 Analyzed: 09/06/22

Diesel Range Organics (C10-C28)	230	25.0	250		92.0	38-132			
Surrogate: n-Nonane	54.2		50.0		108	50-200			

## Matrix Spike (2237003-MS1)

Source: E209008-03

Prepared: 09/06/22 Analyzed: 09/06/22

Diesel Range Organics (C10-C28)	234	25.0	250	ND	93.7	38-132			
Surrogate: n-Nonane	47.9		50.0		95.7	50-200			

## Matrix Spike Dup (2237003-MSD1)

Source: E209008-03

Prepared: 09/06/22 Analyzed: 09/06/22

Diesel Range Organics (C10-C28)	245	25.0	250	ND	98.0	38-132	4.47	20	
Surrogate: n-Nonane	42.7		50.0		85.4	50-200			



QC Summary Data

Kaiser Francis Oil Company	Project Name:	Mosaic Fed 2419 WA2H 10.13.21 Spill	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/7/2022 2:53:28PM

Anions by EPA 300.0/9056A

Analyst: RAS

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

Blank (2237002-BLK1)					Prepared: 09/06/22 Analyzed: 09/06/22				
Chloride	ND	20.0							
LCS (2237002-BS1)					Prepared: 09/06/22 Analyzed: 09/06/22				
Chloride	246	20.0	250		98.3	90-110			
LCS Dup (2237002-BSD1)					Prepared: 09/06/22 Analyzed: 09/06/22				
Chloride	246	20.0	250		98.4	90-110	0.171	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:	Mosaic Fed 2419 WA2H 10.13.21 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	09/07/22 14:53

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

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

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



## Project Information

## Chain of Custody

Page 1 of 1

Client: Kaiser Francis Oil Co  
 Project: Mosaic Fed 2419 WAT  
 Project Manager: Ashley GioVengo  
 Address: 1224 Standpipe Rd  
 City, State, Zip: Carlsbad, NM 88220  
 Phone: 505-382-1211  
 Email: ashley.gioVengo@wescominc.com  
 Report due by: Wescominc.com

10.13.21 Spill

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

Lab Use Only  
 Lab WO# E209007 Job Number 21022-0001  
 Analysis and Method

TAT  
 1D 2D 3D Standard

EPA Program  
 CWA SDWA RCRA

State  
 NM CO UT AZ TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BDOC NM	BDOC TX	Remarks
10:50	07/02	S	1 jar	CONF26-0.5'	1							X		
10:55	07/02	S	1 jar	CONF27-0.5'	2							X		
11:00	07/22	S	1 jar	CONF28-0.5'	3							X		

Additional Instructions: Preserved on ice; please cc Shar. Harvester, Cole Burton and ashley.gioVengo@wescominc.com

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

Relinquished by: (Signature) [Signature] Date 07/02/22 Time 13:20  
 Relinquished by: (Signature) [Signature] Date 9-2-22 Time 4:15  
 Relinquished by: (Signature) \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

Received by: (Signature) [Signature] Date 9-2-22 Time 3:00  
 Received by: (Signature) Carla Chit Date 9/6/22 Time 8:24  
 Received by: (Signature) \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

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

Lab Use Only  
 Received on ice: Y / N  
 T1 \_\_\_\_\_ T2 \_\_\_\_\_ T3 \_\_\_\_\_  
 AVG Temp °C 4

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

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

## Envirotech Analytical Laboratory

Printed: 9/6/2022 10:28:42AM

## 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:	09/06/22 08:24	Work Order ID:	E209007
Phone:	(505) 382-1211	Date Logged In:	09/06/22 08:30	Logged In By:	Caitlin Christian
Email:	ashley.giovengo@wescominc.com	Due Date:	09/06/22 17:00 (0 day TAT)		

Chain of Custody (COC)

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

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

Carrier: UPSComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? No

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:  
Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Kaiser Francis Oil Company

Project Name: Mosaic Fed 2419 WA #002H

Work Order: E209016

Job Number: 21022-0001

Received: 9/7/2022

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
9/8/22

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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

Date Reported: 9/8/22

Ashley Giovengo  
1224 Standpipe Rd  
Carlsbad, NM 88220



Project Name: Mosaic Fed 2419 WA #002H  
Workorder: E209016  
Date Received: 9/7/2022 5:40:00PM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/7/2022 5:40:00PM, under the Project Name: Mosaic Fed 2419 WA #002H.

The analytical test results summarized in this report with the Project Name: Mosaic Fed 2419 WA #002H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

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

Field Offices:

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

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

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

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## Sample Summary

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Mosaic Fed 2419 WA #002H Project Number: 21022-0001 Project Manager: Ashley Giovengo	Reported: 09/08/22 12:28
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CONF07-4'	E209016-01A	Soil	09/02/22	09/07/22	Glass Jar, 4 oz.
CONF29-1.5'	E209016-02A	Soil	09/02/22	09/07/22	Glass Jar, 4 oz.
CONF30-2'	E209016-03A	Soil	09/02/22	09/07/22	Glass Jar, 4 oz.
CONF31-1.5'	E209016-04A	Soil	09/02/22	09/07/22	Glass Jar, 4 oz.
CONF33-0.5'	E209016-05A	Soil	09/02/22	09/07/22	Glass Jar, 4 oz.
CONF36-1'	E209016-06A	Soil	09/02/22	09/07/22	Glass Jar, 4 oz.
CONF37-1'	E209016-07A	Soil	09/02/22	09/07/22	Glass Jar, 4 oz.
CONF41-1'	E209016-08A	Soil	09/02/22	09/07/22	Glass Jar, 4 oz.
CONF42-1'	E209016-09A	Soil	09/02/22	09/07/22	Glass Jar, 4 oz.



## Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Mosaic Fed 2419 WA #002H Project Number: 21022-0001 Project Manager: Ashley Giovengo	Reported: 9/8/2022 12:28:34PM
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CONF07-4'

E209016-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2237021
Benzene	ND	0.0250	1	09/07/22	09/07/22	
Ethylbenzene	ND	0.0250	1	09/07/22	09/07/22	
Toluene	ND	0.0250	1	09/07/22	09/07/22	
o-Xylene	ND	0.0250	1	09/07/22	09/07/22	
p,m-Xylene	ND	0.0500	1	09/07/22	09/07/22	
Total Xylenes	ND	0.0250	1	09/07/22	09/07/22	
Surrogate: Bromofluorobenzene	95.3 %	70-130		09/07/22	09/07/22	
Surrogate: 1,2-Dichloroethane-d4	91.2 %	70-130		09/07/22	09/07/22	
Surrogate: Toluene-d8	98.2 %	70-130		09/07/22	09/07/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2237021
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/07/22	09/07/22	
Surrogate: Bromofluorobenzene	95.3 %	70-130		09/07/22	09/07/22	
Surrogate: 1,2-Dichloroethane-d4	91.2 %	70-130		09/07/22	09/07/22	
Surrogate: Toluene-d8	98.2 %	70-130		09/07/22	09/07/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237019
Diesel Range Organics (C10-C28)	ND	25.0	1	09/07/22	09/07/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/07/22	09/07/22	
Surrogate: n-Nonane	90.4 %	50-200		09/07/22	09/07/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2237023
Chloride	ND	200	10	09/07/22	09/07/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Mosaic Fed 2419 WA #002H  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
9/8/2022 12:28:34PM

CONF29-1.5'

E209016-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2237021
Benzene	ND	0.0250	1	09/07/22	09/07/22	
Ethylbenzene	ND	0.0250	1	09/07/22	09/07/22	
Toluene	ND	0.0250	1	09/07/22	09/07/22	
o-Xylene	ND	0.0250	1	09/07/22	09/07/22	
p,m-Xylene	ND	0.0500	1	09/07/22	09/07/22	
Total Xylenes	ND	0.0250	1	09/07/22	09/07/22	
Surrogate: Bromofluorobenzene	99.4 %	70-130		09/07/22	09/07/22	
Surrogate: 1,2-Dichloroethane-d4	96.2 %	70-130		09/07/22	09/07/22	
Surrogate: Toluene-d8	97.7 %	70-130		09/07/22	09/07/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2237021
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/07/22	09/07/22	
Surrogate: Bromofluorobenzene	99.4 %	70-130		09/07/22	09/07/22	
Surrogate: 1,2-Dichloroethane-d4	96.2 %	70-130		09/07/22	09/07/22	
Surrogate: Toluene-d8	97.7 %	70-130		09/07/22	09/07/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237019
Diesel Range Organics (C10-C28)	ND	25.0	1	09/07/22	09/07/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/07/22	09/07/22	
Surrogate: n-Nonane	99.2 %	50-200		09/07/22	09/07/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2237023
Chloride	382	40.0	2	09/07/22	09/07/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Mosaic Fed 2419 WA #002H  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
9/8/2022 12:28:34PM

CONF30-2'

E209016-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2237021
Benzene	ND	0.0250	1	09/07/22	09/08/22	
Ethylbenzene	ND	0.0250	1	09/07/22	09/08/22	
Toluene	ND	0.0250	1	09/07/22	09/08/22	
o-Xylene	ND	0.0250	1	09/07/22	09/08/22	
p,m-Xylene	ND	0.0500	1	09/07/22	09/08/22	
Total Xylenes	ND	0.0250	1	09/07/22	09/08/22	
Surrogate: Bromofluorobenzene	95.4 %	70-130		09/07/22	09/08/22	
Surrogate: 1,2-Dichloroethane-d4	89.8 %	70-130		09/07/22	09/08/22	
Surrogate: Toluene-d8	96.9 %	70-130		09/07/22	09/08/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2237021
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/07/22	09/08/22	
Surrogate: Bromofluorobenzene	95.4 %	70-130		09/07/22	09/08/22	
Surrogate: 1,2-Dichloroethane-d4	89.8 %	70-130		09/07/22	09/08/22	
Surrogate: Toluene-d8	96.9 %	70-130		09/07/22	09/08/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237019
Diesel Range Organics (C10-C28)	ND	25.0	1	09/07/22	09/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/07/22	09/08/22	
Surrogate: n-Nonane	106 %	50-200		09/07/22	09/08/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2237023
Chloride	397	200	10	09/07/22	09/08/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Mosaic Fed 2419 WA #002H  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
9/8/2022 12:28:34PM

CONF31-1.5'

E209016-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2237021
Benzene	ND	0.0250	1	09/07/22	09/08/22	
Ethylbenzene	ND	0.0250	1	09/07/22	09/08/22	
Toluene	ND	0.0250	1	09/07/22	09/08/22	
o-Xylene	ND	0.0250	1	09/07/22	09/08/22	
p,m-Xylene	ND	0.0500	1	09/07/22	09/08/22	
Total Xylenes	ND	0.0250	1	09/07/22	09/08/22	
Surrogate: Bromofluorobenzene	98.0 %	70-130		09/07/22	09/08/22	
Surrogate: 1,2-Dichloroethane-d4	91.9 %	70-130		09/07/22	09/08/22	
Surrogate: Toluene-d8	96.9 %	70-130		09/07/22	09/08/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2237021
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/07/22	09/08/22	
Surrogate: Bromofluorobenzene	98.0 %	70-130		09/07/22	09/08/22	
Surrogate: 1,2-Dichloroethane-d4	91.9 %	70-130		09/07/22	09/08/22	
Surrogate: Toluene-d8	96.9 %	70-130		09/07/22	09/08/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237019
Diesel Range Organics (C10-C28)	ND	25.0	1	09/07/22	09/07/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/07/22	09/07/22	
Surrogate: n-Nonane	104 %	50-200		09/07/22	09/07/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2237023
Chloride	411	40.0	2	09/07/22	09/07/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Mosaic Fed 2419 WA #002H  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
9/8/2022 12:28:34PM

CONF33-0.5'

E209016-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2237021
Benzene	ND	0.0250	1	09/07/22	09/07/22	
Ethylbenzene	ND	0.0250	1	09/07/22	09/07/22	
Toluene	ND	0.0250	1	09/07/22	09/07/22	
o-Xylene	ND	0.0250	1	09/07/22	09/07/22	
p,m-Xylene	ND	0.0500	1	09/07/22	09/07/22	
Total Xylenes	ND	0.0250	1	09/07/22	09/07/22	
Surrogate: Bromofluorobenzene	98.2 %	70-130		09/07/22	09/07/22	
Surrogate: 1,2-Dichloroethane-d4	93.0 %	70-130		09/07/22	09/07/22	
Surrogate: Toluene-d8	107 %	70-130		09/07/22	09/07/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2237021
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/07/22	09/07/22	
Surrogate: Bromofluorobenzene	98.2 %	70-130		09/07/22	09/07/22	
Surrogate: 1,2-Dichloroethane-d4	93.0 %	70-130		09/07/22	09/07/22	
Surrogate: Toluene-d8	107 %	70-130		09/07/22	09/07/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237019
Diesel Range Organics (C10-C28)	ND	25.0	1	09/07/22	09/07/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/07/22	09/07/22	
Surrogate: n-Nonane	104 %	50-200		09/07/22	09/07/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2237023
Chloride	439	20.0	1	09/07/22	09/07/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Mosaic Fed 2419 WA #002H  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
9/8/2022 12:28:34PM

CONF36-1'

E209016-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2237021
Benzene	ND	0.0250	1	09/07/22	09/07/22	
Ethylbenzene	ND	0.0250	1	09/07/22	09/07/22	
Toluene	ND	0.0250	1	09/07/22	09/07/22	
o-Xylene	ND	0.0250	1	09/07/22	09/07/22	
p,m-Xylene	ND	0.0500	1	09/07/22	09/07/22	
Total Xylenes	ND	0.0250	1	09/07/22	09/07/22	
Surrogate: Bromofluorobenzene	98.1 %	70-130		09/07/22	09/07/22	
Surrogate: 1,2-Dichloroethane-d4	94.5 %	70-130		09/07/22	09/07/22	
Surrogate: Toluene-d8	106 %	70-130		09/07/22	09/07/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2237021
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/07/22	09/07/22	
Surrogate: Bromofluorobenzene	98.1 %	70-130		09/07/22	09/07/22	
Surrogate: 1,2-Dichloroethane-d4	94.5 %	70-130		09/07/22	09/07/22	
Surrogate: Toluene-d8	106 %	70-130		09/07/22	09/07/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237019
Diesel Range Organics (C10-C28)	ND	25.0	1	09/07/22	09/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/07/22	09/08/22	
Surrogate: n-Nonane	105 %	50-200		09/07/22	09/08/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2237023
Chloride	574	20.0	1	09/07/22	09/08/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Mosaic Fed 2419 WA #002H  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
9/8/2022 12:28:34PM

CONF37-1'

E209016-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2237021
Benzene	ND	0.0250	1	09/07/22	09/08/22	
Ethylbenzene	ND	0.0250	1	09/07/22	09/08/22	
Toluene	ND	0.0250	1	09/07/22	09/08/22	
o-Xylene	ND	0.0250	1	09/07/22	09/08/22	
p,m-Xylene	ND	0.0500	1	09/07/22	09/08/22	
Total Xylenes	ND	0.0250	1	09/07/22	09/08/22	
Surrogate: Bromofluorobenzene	96.7 %	70-130		09/07/22	09/08/22	
Surrogate: 1,2-Dichloroethane-d4	95.7 %	70-130		09/07/22	09/08/22	
Surrogate: Toluene-d8	104 %	70-130		09/07/22	09/08/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2237021
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/07/22	09/08/22	
Surrogate: Bromofluorobenzene	96.7 %	70-130		09/07/22	09/08/22	
Surrogate: 1,2-Dichloroethane-d4	95.7 %	70-130		09/07/22	09/08/22	
Surrogate: Toluene-d8	104 %	70-130		09/07/22	09/08/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237019
Diesel Range Organics (C10-C28)	ND	25.0	1	09/07/22	09/07/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/07/22	09/07/22	
Surrogate: n-Nonane	99.9 %	50-200		09/07/22	09/07/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2237023
Chloride	531	40.0	2	09/07/22	09/07/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Mosaic Fed 2419 WA #002H  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
9/8/2022 12:28:34PM

CONF41-1'

E209016-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2237021
Benzene	ND	0.0250	1	09/07/22	09/08/22	
Ethylbenzene	ND	0.0250	1	09/07/22	09/08/22	
Toluene	ND	0.0250	1	09/07/22	09/08/22	
o-Xylene	ND	0.0250	1	09/07/22	09/08/22	
p,m-Xylene	ND	0.0500	1	09/07/22	09/08/22	
Total Xylenes	ND	0.0250	1	09/07/22	09/08/22	
Surrogate: Bromofluorobenzene	97.8 %	70-130		09/07/22	09/08/22	
Surrogate: 1,2-Dichloroethane-d4	95.2 %	70-130		09/07/22	09/08/22	
Surrogate: Toluene-d8	106 %	70-130		09/07/22	09/08/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2237021
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/07/22	09/08/22	
Surrogate: Bromofluorobenzene	97.8 %	70-130		09/07/22	09/08/22	
Surrogate: 1,2-Dichloroethane-d4	95.2 %	70-130		09/07/22	09/08/22	
Surrogate: Toluene-d8	106 %	70-130		09/07/22	09/08/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237019
Diesel Range Organics (C10-C28)	ND	25.0	1	09/07/22	09/07/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/07/22	09/07/22	
Surrogate: n-Nonane	101 %	50-200		09/07/22	09/07/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2237023
Chloride	506	20.0	1	09/07/22	09/08/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Mosaic Fed 2419 WA #002H  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
9/8/2022 12:28:34PM

CONF42-1'

E209016-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2237021
Benzene	ND	0.0250	1	09/07/22	09/08/22	
Ethylbenzene	ND	0.0250	1	09/07/22	09/08/22	
Toluene	ND	0.0250	1	09/07/22	09/08/22	
o-Xylene	ND	0.0250	1	09/07/22	09/08/22	
p,m-Xylene	ND	0.0500	1	09/07/22	09/08/22	
Total Xylenes	ND	0.0250	1	09/07/22	09/08/22	
Surrogate: Bromofluorobenzene	95.1 %	70-130		09/07/22	09/08/22	
Surrogate: 1,2-Dichloroethane-d4	92.4 %	70-130		09/07/22	09/08/22	
Surrogate: Toluene-d8	103 %	70-130		09/07/22	09/08/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2237021
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/07/22	09/08/22	
Surrogate: Bromofluorobenzene	95.1 %	70-130		09/07/22	09/08/22	
Surrogate: 1,2-Dichloroethane-d4	92.4 %	70-130		09/07/22	09/08/22	
Surrogate: Toluene-d8	103 %	70-130		09/07/22	09/08/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237019
Diesel Range Organics (C10-C28)	ND	25.0	1	09/07/22	09/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/07/22	09/08/22	
Surrogate: n-Nonane	99.9 %	50-200		09/07/22	09/08/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2237023
Chloride	469	20.0	1	09/07/22	09/08/22	



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	Mosaic Fed 2419 WA #002H	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/8/2022 12:28:34PM

## Volatile Organic Compounds by EPA 8260B

Analyst: RKS

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

## Blank (2237021-BLK1)

Prepared: 09/07/22 Analyzed: 09/07/22

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	0.472		0.500		94.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.467		0.500		93.4	70-130			
Surrogate: Toluene-d8	0.481		0.500		96.1	70-130			

## LCS (2237021-BS1)

Prepared: 09/07/22 Analyzed: 09/07/22

Benzene	2.80	0.0250	2.50		112	70-130			
Ethylbenzene	2.84	0.0250	2.50		114	70-130			
Toluene	2.62	0.0250	2.50		105	70-130			
o-Xylene	2.89	0.0250	2.50		116	70-130			
p,m-Xylene	5.66	0.0500	5.00		113	70-130			
Total Xylenes	8.55	0.0250	7.50		114	70-130			
Surrogate: Bromofluorobenzene	0.512		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.469		0.500		93.7	70-130			
Surrogate: Toluene-d8	0.475		0.500		94.9	70-130			

## LCS Dup (2237021-BSD1)

Prepared: 09/07/22 Analyzed: 09/08/22

Benzene	2.36	0.0250	2.50		94.5	70-130	16.9	23	
Ethylbenzene	2.57	0.0250	2.50		103	70-130	10.1	27	
Toluene	2.40	0.0250	2.50		96.1	70-130	8.68	24	
o-Xylene	2.53	0.0250	2.50		101	70-130	13.1	27	
p,m-Xylene	5.03	0.0500	5.00		100	70-130	11.9	27	
Total Xylenes	7.56	0.0250	7.50		101	70-130	12.3	27	
Surrogate: Bromofluorobenzene	0.517		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.425		0.500		84.9	70-130			
Surrogate: Toluene-d8	0.504		0.500		101	70-130			



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	Mosaic Fed 2419 WA #002H	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/8/2022 12:28:34PM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2237021-BLK1)

Prepared: 09/07/22 Analyzed: 09/07/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.472		0.500		94.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.467		0.500		93.4	70-130			
Surrogate: Toluene-d8	0.481		0.500		96.1	70-130			

## LCS (2237021-BS2)

Prepared: 09/07/22 Analyzed: 09/07/22

Gasoline Range Organics (C6-C10)	41.9	20.0	50.0		83.7	70-130			
Surrogate: Bromofluorobenzene	0.499		0.500		99.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.491		0.500		98.2	70-130			
Surrogate: Toluene-d8	0.478		0.500		95.6	70-130			

## LCS Dup (2237021-BSD2)

Prepared: 09/07/22 Analyzed: 09/07/22

Gasoline Range Organics (C6-C10)	46.6	20.0	50.0		93.3	70-130	10.8	20	
Surrogate: Bromofluorobenzene	0.510		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.487		0.500		97.3	70-130			
Surrogate: Toluene-d8	0.486		0.500		97.2	70-130			



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	Mosaic Fed 2419 WA #002H	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/8/2022 12:28:34PM

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

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2237019-BLK1)

Prepared: 09/07/22 Analyzed: 09/07/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	51.6		50.0		103	50-200			

## LCS (2237019-BS1)

Prepared: 09/07/22 Analyzed: 09/07/22

Diesel Range Organics (C10-C28)	259	25.0	250		104	38-132			
Surrogate: <i>n</i> -Nonane	51.3		50.0		103	50-200			

## Matrix Spike (2237019-MS1)

Source: E209014-01

Prepared: 09/07/22 Analyzed: 09/07/22

Diesel Range Organics (C10-C28)	269	25.0	250	ND	108	38-132			
Surrogate: <i>n</i> -Nonane	52.9		50.0		106	50-200			

## Matrix Spike Dup (2237019-MSD1)

Source: E209014-01

Prepared: 09/07/22 Analyzed: 09/07/22

Diesel Range Organics (C10-C28)	271	25.0	250	ND	108	38-132	0.637	20	
Surrogate: <i>n</i> -Nonane	53.2		50.0		106	50-200			



QC Summary Data

Kaiser Francis Oil Company	Project Name:	Mosaic Fed 2419 WA #002H	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/8/2022 12:28:34PM

Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2237023-BLK1)					Prepared: 09/07/22 Analyzed: 09/07/22				
Chloride	ND	20.0							
LCS (2237023-BS1)					Prepared: 09/07/22 Analyzed: 09/07/22				
Chloride	248	20.0	250		99.2	90-110			
LCS Dup (2237023-BSD1)					Prepared: 09/07/22 Analyzed: 09/07/22				
Chloride	247	20.0	250		98.7	90-110	0.494	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:	Mosaic Fed 2419 WA #002H	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	09/08/22 12:28

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

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

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

## Project Information

## Chain of Custody

Page 1 of 1

#0024

Client: <u>WFOC</u>		Bill To		Lab Use Only		TAT				EPA Program			
Project: <u>Mosaic Fed 2419WA</u>		Attention: <u>Wescom Inc</u>		Lab WO# <u>E209010</u>		Job Number <u>21002-001</u>		1D	2D	3D	Standard	CWA	SDWA
Project Manager: <u>Ashley Giovenco</u>		Address: <u>1224 Standpipe Rd</u>		City, State, Zip <u>Carlsbad, NM 88220</u>		Analysis and Method							
Address: <u>1224 Standpipe Rd</u>		City, State, Zip <u>Carlsbad, NM 88220</u>		Phone: <u>505-382-1211</u>									
Phone: <u>505-382-1211</u>		Email: <u>ashley.giovenco@wescominc.com</u>		Email: <u>ashley.giovenco@wescominc.com</u>									
Report due by: <u>Wescominc.com</u>													

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
7:24	09/02	S	1	CONF07-4'	1							X		
8:49	09/02	S		CONF29-1.5'	2							X		
7:30	09/02	S		CONF30-2'	3							X		
8:56	09/02	S		CONF31-1.5'	4							X		
14:35	09/02	S		CONF33-0.5'	5							X		
14:49	09/02	S		CONF36-1'	6							X		
16:45	09/02	S		CONF37-1'	7							X		
16:27	09/02	S		CONF41-1'	8							X		
16:28	09/02	S		CONF42-1'	9							X		

Additional Instructions: Preserved on ice; please cc shar. harvester, cole. burton and ashley.giovenco@wescominc.com

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

Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only	
<u>[Signature]</u>		09/07/22	13:38	<u>[Signature]</u>		9/7/22	13:38	Received on ice: <u>Y</u> / N	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1	
<u>[Signature]</u>		9/7/22	17:40	<u>[Signature]</u>		9/7/22	17:40	T2	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T3	
<u>[Signature]</u>				<u>[Signature]</u>				AVG Temp: °C <u>4</u>	

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

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

## Envirotech Analytical Laboratory

Printed: 9/7/2022 11:13:36PM

## 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:	09/07/22 17:40	Work Order ID:	E209016
Phone:	(505) 382-1211	Date Logged In:	09/07/22 09:29	Logged In By:	Alexa Michaels
Email:	ashley.giovengo@wescominc.com	Due Date:	09/08/22 17:00 (0 day TAT)		

**Chain of Custody (COC)**

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

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

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

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

**Sample Cooler**

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

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

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

**Sample Container**

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

**Field Label**

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

**Sample Preservation**

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

**Multiphase Sample Matrix**

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

**Subcontract Laboratory**

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

**Client Instruction**

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

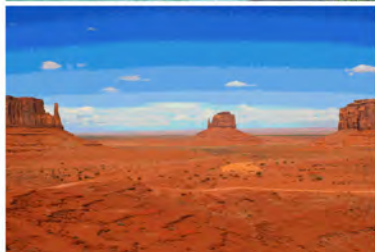
Date



envirotech Inc.

Report to:

Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Kaiser Francis Oil Company

Project Name: Mosaic Federal 2419 WA #002H

Work Order: E209020

Job Number: 21022-0001

Received: 9/8/2022

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
9/9/22

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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

Date Reported: 9/9/22

Ashley Giovengo  
1224 Standpipe Rd  
Carlsbad, NM 88220



Project Name: Mosaic Federal 2419 WA #002H  
Workorder: E209020  
Date Received: 9/8/2022 10:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/8/2022 10:30:00AM, under the Project Name: Mosaic Federal 2419 WA #002H.

The analytical test results summarized in this report with the Project Name: Mosaic Federal 2419 WA #002H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

**Walter Hinchman**  
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**Rayny Hagan**  
Technical Representative  
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Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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## Sample Summary

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Mosaic Federal 2419 WA #002H Project Number: 21022-0001 Project Manager: Ashley Giovengo	Reported: 09/09/22 13:39
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS07A-0'	E209020-01A	Soil	09/06/22	09/08/22	Glass Jar, 4 oz.
SS08-0'	E209020-02A	Soil	09/06/22	09/08/22	Glass Jar, 4 oz.
CONF34-1'	E209020-03A	Soil	09/06/22	09/08/22	Glass Jar, 4 oz.
CONF35-1'	E209020-04A	Soil	09/06/22	09/08/22	Glass Jar, 4 oz.
CONF38-1.5'	E209020-05A	Soil	09/06/22	09/08/22	Glass Jar, 4 oz.
CONF39-1.5'	E209020-06A	Soil	09/06/22	09/08/22	Glass Jar, 4 oz.
CONF40-1.5'	E209020-07A	Soil	09/06/22	09/08/22	Glass Jar, 4 oz.
CONF44-1.5'	E209020-08A	Soil	09/06/22	09/08/22	Glass Jar, 4 oz.
CONF45-1.5'	E209020-09A	Soil	09/06/22	09/08/22	Glass Jar, 4 oz.
CONF46-2'	E209020-10A	Soil	09/06/22	09/08/22	Glass Jar, 4 oz.
CONF47-2'	E209020-11A	Soil	09/06/22	09/08/22	Glass Jar, 4 oz.
CONF48-1.5'	E209020-12A	Soil	09/06/22	09/08/22	Glass Jar, 4 oz.
CONF49WALL-1.5'	E209020-13A	Soil	09/06/22	09/08/22	Glass Jar, 4 oz.
CONF50WALL-1'	E209020-14A	Soil	09/06/22	09/08/22	Glass Jar, 4 oz.
CONF51WALL-1'	E209020-15A	Soil	09/06/22	09/08/22	Glass Jar, 4 oz.
CONF52WALL-1'	E209020-16A	Soil	09/06/22	09/08/22	Glass Jar, 4 oz.
CONF53-0'	E209020-17A	Soil	09/06/22	09/08/22	Glass Jar, 4 oz.



## Sample Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220	Project Name: Mosaic Federal 2419 WA #002H Project Number: 21022-0001 Project Manager: Ashley Giovengo	Reported: 9/9/2022 1:39:51PM
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SS07A-0'

E209020-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237033
Benzene	ND	0.0250	1	09/08/22	09/08/22	
Ethylbenzene	ND	0.0250	1	09/08/22	09/08/22	
Toluene	ND	0.0250	1	09/08/22	09/08/22	
o-Xylene	ND	0.0250	1	09/08/22	09/08/22	
p,m-Xylene	ND	0.0500	1	09/08/22	09/08/22	
Total Xylenes	ND	0.0250	1	09/08/22	09/08/22	
Surrogate: Bromofluorobenzene	94.9 %	70-130		09/08/22	09/08/22	
Surrogate: 1,2-Dichloroethane-d4	95.8 %	70-130		09/08/22	09/08/22	
Surrogate: Toluene-d8	96.3 %	70-130		09/08/22	09/08/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237033
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/22	09/08/22	
Surrogate: Bromofluorobenzene	94.9 %	70-130		09/08/22	09/08/22	
Surrogate: 1,2-Dichloroethane-d4	95.8 %	70-130		09/08/22	09/08/22	
Surrogate: Toluene-d8	96.3 %	70-130		09/08/22	09/08/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237043
Diesel Range Organics (C10-C28)	257	25.0	1	09/08/22	09/08/22	
Oil Range Organics (C28-C36)	293	50.0	1	09/08/22	09/08/22	
Surrogate: n-Nonane	101 %	50-200		09/08/22	09/08/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2237038
Chloride	47.0	20.0	1	09/08/22	09/08/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Mosaic Federal 2419 WA #002H  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
9/9/2022 1:39:51PM

SS08-0'

E209020-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237033
Benzene	ND	0.0250	1	09/08/22	09/08/22	
Ethylbenzene	ND	0.0250	1	09/08/22	09/08/22	
Toluene	ND	0.0250	1	09/08/22	09/08/22	
o-Xylene	ND	0.0250	1	09/08/22	09/08/22	
p,m-Xylene	ND	0.0500	1	09/08/22	09/08/22	
Total Xylenes	ND	0.0250	1	09/08/22	09/08/22	
Surrogate: Bromofluorobenzene	99.8 %	70-130		09/08/22	09/08/22	
Surrogate: 1,2-Dichloroethane-d4	94.0 %	70-130		09/08/22	09/08/22	
Surrogate: Toluene-d8	96.6 %	70-130		09/08/22	09/08/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237033
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/22	09/08/22	
Surrogate: Bromofluorobenzene	99.8 %	70-130		09/08/22	09/08/22	
Surrogate: 1,2-Dichloroethane-d4	94.0 %	70-130		09/08/22	09/08/22	
Surrogate: Toluene-d8	96.6 %	70-130		09/08/22	09/08/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237043
Diesel Range Organics (C10-C28)	ND	25.0	1	09/08/22	09/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/08/22	09/08/22	
Surrogate: n-Nonane	102 %	50-200		09/08/22	09/08/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2237038
Chloride	130	20.0	1	09/08/22	09/08/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Mosaic Federal 2419 WA #002H  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
9/9/2022 1:39:51PM

CONF34-1'

E209020-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237033
Benzene	ND	0.0250	1	09/08/22	09/08/22	
Ethylbenzene	ND	0.0250	1	09/08/22	09/08/22	
Toluene	ND	0.0250	1	09/08/22	09/08/22	
o-Xylene	ND	0.0250	1	09/08/22	09/08/22	
p,m-Xylene	ND	0.0500	1	09/08/22	09/08/22	
Total Xylenes	ND	0.0250	1	09/08/22	09/08/22	
Surrogate: Bromofluorobenzene	97.7 %	70-130		09/08/22	09/08/22	
Surrogate: 1,2-Dichloroethane-d4	97.6 %	70-130		09/08/22	09/08/22	
Surrogate: Toluene-d8	96.2 %	70-130		09/08/22	09/08/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237033
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/22	09/08/22	
Surrogate: Bromofluorobenzene	97.7 %	70-130		09/08/22	09/08/22	
Surrogate: 1,2-Dichloroethane-d4	97.6 %	70-130		09/08/22	09/08/22	
Surrogate: Toluene-d8	96.2 %	70-130		09/08/22	09/08/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237043
Diesel Range Organics (C10-C28)	ND	25.0	1	09/08/22	09/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/08/22	09/08/22	
Surrogate: n-Nonane	100 %	50-200		09/08/22	09/08/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2237038
Chloride	345	40.0	2	09/08/22	09/08/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Mosaic Federal 2419 WA #002H  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
9/9/2022 1:39:51PM

CONF35-1'

E209020-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237033
Benzene	ND	0.0250	1	09/08/22	09/08/22	
Ethylbenzene	ND	0.0250	1	09/08/22	09/08/22	
Toluene	ND	0.0250	1	09/08/22	09/08/22	
o-Xylene	ND	0.0250	1	09/08/22	09/08/22	
p,m-Xylene	ND	0.0500	1	09/08/22	09/08/22	
Total Xylenes	ND	0.0250	1	09/08/22	09/08/22	
Surrogate: Bromofluorobenzene	97.8 %	70-130		09/08/22	09/08/22	
Surrogate: 1,2-Dichloroethane-d4	92.9 %	70-130		09/08/22	09/08/22	
Surrogate: Toluene-d8	96.6 %	70-130		09/08/22	09/08/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237033
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/22	09/08/22	
Surrogate: Bromofluorobenzene	97.8 %	70-130		09/08/22	09/08/22	
Surrogate: 1,2-Dichloroethane-d4	92.9 %	70-130		09/08/22	09/08/22	
Surrogate: Toluene-d8	96.6 %	70-130		09/08/22	09/08/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237043
Diesel Range Organics (C10-C28)	ND	25.0	1	09/08/22	09/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/08/22	09/08/22	
Surrogate: n-Nonane	101 %	50-200		09/08/22	09/08/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2237038
Chloride	145	20.0	1	09/08/22	09/08/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Mosaic Federal 2419 WA #002H  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
9/9/2022 1:39:51PM

CONF38-1.5'

E209020-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237033
Benzene	ND	0.0250	1	09/08/22	09/08/22	
Ethylbenzene	ND	0.0250	1	09/08/22	09/08/22	
Toluene	ND	0.0250	1	09/08/22	09/08/22	
o-Xylene	ND	0.0250	1	09/08/22	09/08/22	
p,m-Xylene	ND	0.0500	1	09/08/22	09/08/22	
Total Xylenes	ND	0.0250	1	09/08/22	09/08/22	
Surrogate: Bromofluorobenzene	97.7 %	70-130		09/08/22	09/08/22	
Surrogate: 1,2-Dichloroethane-d4	95.6 %	70-130		09/08/22	09/08/22	
Surrogate: Toluene-d8	96.2 %	70-130		09/08/22	09/08/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237033
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/22	09/08/22	
Surrogate: Bromofluorobenzene	97.7 %	70-130		09/08/22	09/08/22	
Surrogate: 1,2-Dichloroethane-d4	95.6 %	70-130		09/08/22	09/08/22	
Surrogate: Toluene-d8	96.2 %	70-130		09/08/22	09/08/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237043
Diesel Range Organics (C10-C28)	ND	25.0	1	09/08/22	09/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/08/22	09/08/22	
Surrogate: n-Nonane	106 %	50-200		09/08/22	09/08/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2237038
Chloride	ND	40.0	2	09/08/22	09/08/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Mosaic Federal 2419 WA #002H  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
9/9/2022 1:39:51PM

## CONF39-1.5'

## E209020-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237033
Benzene	ND	0.0250	1	09/08/22	09/08/22	
Ethylbenzene	ND	0.0250	1	09/08/22	09/08/22	
Toluene	ND	0.0250	1	09/08/22	09/08/22	
o-Xylene	ND	0.0250	1	09/08/22	09/08/22	
p,m-Xylene	ND	0.0500	1	09/08/22	09/08/22	
Total Xylenes	ND	0.0250	1	09/08/22	09/08/22	
Surrogate: Bromofluorobenzene	96.9 %	70-130		09/08/22	09/08/22	
Surrogate: 1,2-Dichloroethane-d4	94.7 %	70-130		09/08/22	09/08/22	
Surrogate: Toluene-d8	97.5 %	70-130		09/08/22	09/08/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237033
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/22	09/08/22	
Surrogate: Bromofluorobenzene	96.9 %	70-130		09/08/22	09/08/22	
Surrogate: 1,2-Dichloroethane-d4	94.7 %	70-130		09/08/22	09/08/22	
Surrogate: Toluene-d8	97.5 %	70-130		09/08/22	09/08/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237043
Diesel Range Organics (C10-C28)	ND	25.0	1	09/08/22	09/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/08/22	09/08/22	
Surrogate: n-Nonane	110 %	50-200		09/08/22	09/08/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2237038
Chloride	451	40.0	2	09/08/22	09/08/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Mosaic Federal 2419 WA #002H  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
9/9/2022 1:39:51PM

CONF40-1.5'

E209020-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237033
Benzene	ND	0.0250	1	09/08/22	09/08/22	
Ethylbenzene	ND	0.0250	1	09/08/22	09/08/22	
Toluene	ND	0.0250	1	09/08/22	09/08/22	
o-Xylene	ND	0.0250	1	09/08/22	09/08/22	
p,m-Xylene	ND	0.0500	1	09/08/22	09/08/22	
Total Xylenes	ND	0.0250	1	09/08/22	09/08/22	
Surrogate: Bromofluorobenzene	96.1 %	70-130		09/08/22	09/08/22	
Surrogate: 1,2-Dichloroethane-d4	94.8 %	70-130		09/08/22	09/08/22	
Surrogate: Toluene-d8	96.5 %	70-130		09/08/22	09/08/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237033
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/22	09/08/22	
Surrogate: Bromofluorobenzene	96.1 %	70-130		09/08/22	09/08/22	
Surrogate: 1,2-Dichloroethane-d4	94.8 %	70-130		09/08/22	09/08/22	
Surrogate: Toluene-d8	96.5 %	70-130		09/08/22	09/08/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237043
Diesel Range Organics (C10-C28)	ND	25.0	1	09/08/22	09/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/08/22	09/08/22	
Surrogate: n-Nonane	112 %	50-200		09/08/22	09/08/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2237038
Chloride	371	40.0	2	09/08/22	09/08/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Mosaic Federal 2419 WA #002H  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
9/9/2022 1:39:51PM

CONF44-1.5'

E209020-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237033
Benzene	ND	0.0250	1	09/08/22	09/09/22	
Ethylbenzene	ND	0.0250	1	09/08/22	09/09/22	
Toluene	ND	0.0250	1	09/08/22	09/09/22	
o-Xylene	ND	0.0250	1	09/08/22	09/09/22	
p,m-Xylene	ND	0.0500	1	09/08/22	09/09/22	
Total Xylenes	ND	0.0250	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene	98.1 %	70-130		09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4	88.2 %	70-130		09/08/22	09/09/22	
Surrogate: Toluene-d8	97.1 %	70-130		09/08/22	09/09/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237033
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene	98.1 %	70-130		09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4	88.2 %	70-130		09/08/22	09/09/22	
Surrogate: Toluene-d8	97.1 %	70-130		09/08/22	09/09/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237043
Diesel Range Organics (C10-C28)	ND	25.0	1	09/08/22	09/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/08/22	09/08/22	
Surrogate: n-Nonane	117 %	50-200		09/08/22	09/08/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2237038
Chloride	131	40.0	2	09/08/22	09/08/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Mosaic Federal 2419 WA #002H  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
9/9/2022 1:39:51PM

CONF45-1.5'

E209020-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237033
Benzene	ND	0.0250	1	09/08/22	09/09/22	
Ethylbenzene	ND	0.0250	1	09/08/22	09/09/22	
Toluene	ND	0.0250	1	09/08/22	09/09/22	
o-Xylene	ND	0.0250	1	09/08/22	09/09/22	
p,m-Xylene	ND	0.0500	1	09/08/22	09/09/22	
Total Xylenes	ND	0.0250	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene	95.9 %	70-130		09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4	89.0 %	70-130		09/08/22	09/09/22	
Surrogate: Toluene-d8	96.9 %	70-130		09/08/22	09/09/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237033
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene	95.9 %	70-130		09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4	89.0 %	70-130		09/08/22	09/09/22	
Surrogate: Toluene-d8	96.9 %	70-130		09/08/22	09/09/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237043
Diesel Range Organics (C10-C28)	ND	25.0	1	09/08/22	09/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/08/22	09/08/22	
Surrogate: n-Nonane	94.0 %	50-200		09/08/22	09/08/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2237038
Chloride	204	100	5	09/08/22	09/08/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Mosaic Federal 2419 WA #002H  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
9/9/2022 1:39:51PM

CONF46-2'

E209020-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237033
Benzene	ND	0.0250	1	09/08/22	09/09/22	
Ethylbenzene	ND	0.0250	1	09/08/22	09/09/22	
Toluene	ND	0.0250	1	09/08/22	09/09/22	
o-Xylene	ND	0.0250	1	09/08/22	09/09/22	
p,m-Xylene	ND	0.0500	1	09/08/22	09/09/22	
Total Xylenes	ND	0.0250	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene	96.9 %	70-130		09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4	94.4 %	70-130		09/08/22	09/09/22	
Surrogate: Toluene-d8	96.2 %	70-130		09/08/22	09/09/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237033
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene	96.9 %	70-130		09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4	94.4 %	70-130		09/08/22	09/09/22	
Surrogate: Toluene-d8	96.2 %	70-130		09/08/22	09/09/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237043
Diesel Range Organics (C10-C28)	ND	25.0	1	09/08/22	09/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/08/22	09/08/22	
Surrogate: n-Nonane	105 %	50-200		09/08/22	09/08/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2237038
Chloride	364	200	10	09/08/22	09/08/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Mosaic Federal 2419 WA #002H  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
9/9/2022 1:39:51PM

CONF47-2'

E209020-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237033
Benzene	ND	0.0250	1	09/08/22	09/08/22	
Ethylbenzene	ND	0.0250	1	09/08/22	09/08/22	
Toluene	ND	0.0250	1	09/08/22	09/08/22	
o-Xylene	ND	0.0250	1	09/08/22	09/08/22	
p,m-Xylene	ND	0.0500	1	09/08/22	09/08/22	
Total Xylenes	ND	0.0250	1	09/08/22	09/08/22	
Surrogate: Bromofluorobenzene	97.0 %	70-130		09/08/22	09/08/22	
Surrogate: 1,2-Dichloroethane-d4	95.6 %	70-130		09/08/22	09/08/22	
Surrogate: Toluene-d8	108 %	70-130		09/08/22	09/08/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237033
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/22	09/08/22	
Surrogate: Bromofluorobenzene	97.0 %	70-130		09/08/22	09/08/22	
Surrogate: 1,2-Dichloroethane-d4	95.6 %	70-130		09/08/22	09/08/22	
Surrogate: Toluene-d8	108 %	70-130		09/08/22	09/08/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237043
Diesel Range Organics (C10-C28)	ND	25.0	1	09/08/22	09/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/08/22	09/08/22	
Surrogate: n-Nonane	113 %	50-200		09/08/22	09/08/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2237038
Chloride	242	100	5	09/08/22	09/08/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Mosaic Federal 2419 WA #002H  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
9/9/2022 1:39:51PM

CONF48-1.5'

E209020-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237033
Benzene	ND	0.0250	1	09/08/22	09/08/22	
Ethylbenzene	ND	0.0250	1	09/08/22	09/08/22	
Toluene	ND	0.0250	1	09/08/22	09/08/22	
o-Xylene	ND	0.0250	1	09/08/22	09/08/22	
p,m-Xylene	ND	0.0500	1	09/08/22	09/08/22	
Total Xylenes	ND	0.0250	1	09/08/22	09/08/22	
Surrogate: Bromofluorobenzene	97.6 %	70-130		09/08/22	09/08/22	
Surrogate: 1,2-Dichloroethane-d4	99.4 %	70-130		09/08/22	09/08/22	
Surrogate: Toluene-d8	106 %	70-130		09/08/22	09/08/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237033
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/22	09/08/22	
Surrogate: Bromofluorobenzene	97.6 %	70-130		09/08/22	09/08/22	
Surrogate: 1,2-Dichloroethane-d4	99.4 %	70-130		09/08/22	09/08/22	
Surrogate: Toluene-d8	106 %	70-130		09/08/22	09/08/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237043
Diesel Range Organics (C10-C28)	ND	25.0	1	09/08/22	09/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/08/22	09/08/22	
Surrogate: n-Nonane	109 %	50-200		09/08/22	09/08/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2237038
Chloride	138	100	5	09/08/22	09/08/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Mosaic Federal 2419 WA #002H  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
9/9/2022 1:39:51PM

## CONF49WALL-1.5'

## E209020-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237033
Benzene	ND	0.0250	1	09/08/22	09/08/22	
Ethylbenzene	ND	0.0250	1	09/08/22	09/08/22	
Toluene	ND	0.0250	1	09/08/22	09/08/22	
o-Xylene	ND	0.0250	1	09/08/22	09/08/22	
p,m-Xylene	ND	0.0500	1	09/08/22	09/08/22	
Total Xylenes	ND	0.0250	1	09/08/22	09/08/22	
Surrogate: Bromofluorobenzene	96.3 %	70-130		09/08/22	09/08/22	
Surrogate: 1,2-Dichloroethane-d4	92.2 %	70-130		09/08/22	09/08/22	
Surrogate: Toluene-d8	106 %	70-130		09/08/22	09/08/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237033
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/22	09/08/22	
Surrogate: Bromofluorobenzene	96.3 %	70-130		09/08/22	09/08/22	
Surrogate: 1,2-Dichloroethane-d4	92.2 %	70-130		09/08/22	09/08/22	
Surrogate: Toluene-d8	106 %	70-130		09/08/22	09/08/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237043
Diesel Range Organics (C10-C28)	ND	25.0	1	09/08/22	09/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/08/22	09/08/22	
Surrogate: n-Nonane	83.9 %	50-200		09/08/22	09/08/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2237038
Chloride	337	100	5	09/08/22	09/08/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Mosaic Federal 2419 WA #002H  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
9/9/2022 1:39:51PM

## CONF50WALL-1'

E209020-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237033
Benzene	ND	0.0250	1	09/08/22	09/08/22	
Ethylbenzene	ND	0.0250	1	09/08/22	09/08/22	
Toluene	ND	0.0250	1	09/08/22	09/08/22	
o-Xylene	ND	0.0250	1	09/08/22	09/08/22	
p,m-Xylene	ND	0.0500	1	09/08/22	09/08/22	
Total Xylenes	ND	0.0250	1	09/08/22	09/08/22	
Surrogate: Bromofluorobenzene		102 %	70-130	09/08/22	09/08/22	
Surrogate: 1,2-Dichloroethane-d4		95.7 %	70-130	09/08/22	09/08/22	
Surrogate: Toluene-d8		106 %	70-130	09/08/22	09/08/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237033
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/22	09/08/22	
Surrogate: Bromofluorobenzene		102 %	70-130	09/08/22	09/08/22	
Surrogate: 1,2-Dichloroethane-d4		95.7 %	70-130	09/08/22	09/08/22	
Surrogate: Toluene-d8		106 %	70-130	09/08/22	09/08/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237043
Diesel Range Organics (C10-C28)	ND	25.0	1	09/08/22	09/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/08/22	09/08/22	
Surrogate: n-Nonane		85.0 %	50-200	09/08/22	09/08/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2237038
Chloride	159	100	5	09/08/22	09/08/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Mosaic Federal 2419 WA #002H  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
9/9/2022 1:39:51PM

## CONF51WALL-1'

E209020-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237033
Benzene	ND	0.0250	1	09/08/22	09/08/22	
Ethylbenzene	ND	0.0250	1	09/08/22	09/08/22	
Toluene	ND	0.0250	1	09/08/22	09/08/22	
o-Xylene	ND	0.0250	1	09/08/22	09/08/22	
p,m-Xylene	ND	0.0500	1	09/08/22	09/08/22	
Total Xylenes	ND	0.0250	1	09/08/22	09/08/22	
Surrogate: Bromofluorobenzene	96.8 %	70-130		09/08/22	09/08/22	
Surrogate: 1,2-Dichloroethane-d4	95.4 %	70-130		09/08/22	09/08/22	
Surrogate: Toluene-d8	108 %	70-130		09/08/22	09/08/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237033
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/22	09/08/22	
Surrogate: Bromofluorobenzene	96.8 %	70-130		09/08/22	09/08/22	
Surrogate: 1,2-Dichloroethane-d4	95.4 %	70-130		09/08/22	09/08/22	
Surrogate: Toluene-d8	108 %	70-130		09/08/22	09/08/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237043
Diesel Range Organics (C10-C28)	25.3	25.0	1	09/08/22	09/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/08/22	09/08/22	
Surrogate: n-Nonane	81.9 %	50-200		09/08/22	09/08/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2237038
Chloride	63.9	20.0	1	09/08/22	09/08/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Mosaic Federal 2419 WA #002H  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
9/9/2022 1:39:51PM

## CONF52WALL-1'

E209020-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237033
Benzene	ND	0.0250	1	09/08/22	09/08/22	
Ethylbenzene	ND	0.0250	1	09/08/22	09/08/22	
Toluene	ND	0.0250	1	09/08/22	09/08/22	
o-Xylene	ND	0.0250	1	09/08/22	09/08/22	
p,m-Xylene	ND	0.0500	1	09/08/22	09/08/22	
Total Xylenes	ND	0.0250	1	09/08/22	09/08/22	
Surrogate: Bromofluorobenzene	97.3 %	70-130		09/08/22	09/08/22	
Surrogate: 1,2-Dichloroethane-d4	94.5 %	70-130		09/08/22	09/08/22	
Surrogate: Toluene-d8	105 %	70-130		09/08/22	09/08/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237033
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/22	09/08/22	
Surrogate: Bromofluorobenzene	97.3 %	70-130		09/08/22	09/08/22	
Surrogate: 1,2-Dichloroethane-d4	94.5 %	70-130		09/08/22	09/08/22	
Surrogate: Toluene-d8	105 %	70-130		09/08/22	09/08/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237043
Diesel Range Organics (C10-C28)	43.1	25.0	1	09/08/22	09/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/08/22	09/08/22	
Surrogate: n-Nonane	95.0 %	50-200		09/08/22	09/08/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2237038
Chloride	1520	20.0	1	09/08/22	09/08/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Mosaic Federal 2419 WA #002H  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
9/9/2022 1:39:51PM

CONF53-0'

E209020-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237033
Benzene	ND	0.0250	1	09/08/22	09/08/22	
Ethylbenzene	ND	0.0250	1	09/08/22	09/08/22	
Toluene	ND	0.0250	1	09/08/22	09/08/22	
o-Xylene	ND	0.0250	1	09/08/22	09/08/22	
p,m-Xylene	ND	0.0500	1	09/08/22	09/08/22	
Total Xylenes	ND	0.0250	1	09/08/22	09/08/22	
Surrogate: Bromofluorobenzene	99.6 %	70-130		09/08/22	09/08/22	
Surrogate: 1,2-Dichloroethane-d4	96.3 %	70-130		09/08/22	09/08/22	
Surrogate: Toluene-d8	106 %	70-130		09/08/22	09/08/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237033
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/22	09/08/22	
Surrogate: Bromofluorobenzene	99.6 %	70-130		09/08/22	09/08/22	
Surrogate: 1,2-Dichloroethane-d4	96.3 %	70-130		09/08/22	09/08/22	
Surrogate: Toluene-d8	106 %	70-130		09/08/22	09/08/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237043
Diesel Range Organics (C10-C28)	ND	25.0	1	09/08/22	09/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/08/22	09/08/22	
Surrogate: n-Nonane	96.7 %	50-200		09/08/22	09/08/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: KL		Batch: 2237038
Chloride	427	20.0	1	09/08/22	09/08/22	



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	Mosaic Federal 2419 WA #002H	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/9/2022 1:39:51PM

## Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2237033-BLK1)

Prepared: 09/07/22 Analyzed: 09/08/22

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	0.481		0.500		96.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.457		0.500		91.4	70-130			
Surrogate: Toluene-d8	0.490		0.500		97.9	70-130			

## LCS (2237033-BS1)

Prepared: 09/07/22 Analyzed: 09/08/22

Benzene	2.26	0.0250	2.50		90.5	70-130			
Ethylbenzene	2.31	0.0250	2.50		92.3	70-130			
Toluene	2.16	0.0250	2.50		86.3	70-130			
o-Xylene	2.38	0.0250	2.50		95.1	70-130			
p,m-Xylene	4.58	0.0500	5.00		91.7	70-130			
Total Xylenes	6.96	0.0250	7.50		92.8	70-130			
Surrogate: Bromofluorobenzene	0.523		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.454		0.500		90.8	70-130			
Surrogate: Toluene-d8	0.484		0.500		96.8	70-130			

## LCS Dup (2237033-BSD1)

Prepared: 09/07/22 Analyzed: 09/09/22

Benzene	1.98	0.0250	2.50		79.3	70-130	13.1	23	
Ethylbenzene	2.05	0.0250	2.50		82.1	70-130	11.7	27	
Toluene	1.90	0.0250	2.50		75.8	70-130	12.9	24	
o-Xylene	2.09	0.0250	2.50		83.7	70-130	12.7	27	
p,m-Xylene	4.07	0.0500	5.00		81.5	70-130	11.8	27	
Total Xylenes	6.17	0.0250	7.50		82.2	70-130	12.1	27	
Surrogate: Bromofluorobenzene	0.526		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.461		0.500		92.1	70-130			
Surrogate: Toluene-d8	0.490		0.500		97.9	70-130			



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	Mosaic Federal 2419 WA #002H	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/9/2022 1:39:51PM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2237033-BLK1)

Prepared: 09/07/22 Analyzed: 09/08/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.481		0.500		96.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.457		0.500		91.4	70-130			
Surrogate: Toluene-d8	0.490		0.500		97.9	70-130			

## LCS (2237033-BS2)

Prepared: 09/07/22 Analyzed: 09/09/22

Gasoline Range Organics (C6-C10)	41.5	20.0	50.0		83.1	70-130			
Surrogate: Bromofluorobenzene	0.509		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.446		0.500		89.1	70-130			
Surrogate: Toluene-d8	0.496		0.500		99.2	70-130			

## LCS Dup (2237033-BSD2)

Prepared: 09/07/22 Analyzed: 09/09/22

Gasoline Range Organics (C6-C10)	41.1	20.0	50.0		82.1	70-130	1.12	20	
Surrogate: Bromofluorobenzene	0.520		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.450		0.500		90.0	70-130			
Surrogate: Toluene-d8	0.491		0.500		98.1	70-130			



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	Mosaic Federal 2419 WA #002H	<b>Reported:</b>
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/9/2022 1:39:51PM

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

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2237043-BLK1)

Prepared: 09/08/22 Analyzed: 09/08/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.7		50.0		107	50-200			

## LCS (2237043-BS1)

Prepared: 09/08/22 Analyzed: 09/08/22

Diesel Range Organics (C10-C28)	260	25.0	250		104	38-132			
Surrogate: n-Nonane	55.8		50.0		112	50-200			

## Matrix Spike (2237043-MS1)

Source: E209020-12

Prepared: 09/08/22 Analyzed: 09/08/22

Diesel Range Organics (C10-C28)	258	25.0	250	ND	103	38-132			
Surrogate: n-Nonane	52.8		50.0		106	50-200			

## Matrix Spike Dup (2237043-MSD1)

Source: E209020-12

Prepared: 09/08/22 Analyzed: 09/08/22

Diesel Range Organics (C10-C28)	259	25.0	250	ND	104	38-132	0.712	20	
Surrogate: n-Nonane	53.6		50.0		107	50-200			



QC Summary Data

Kaiser Francis Oil Company	Project Name:	Mosaic Federal 2419 WA #002H	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/9/2022 1:39:51PM

Anions by EPA 300.0/9056A

Analyst: KL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2237038-BLK1)					Prepared: 09/08/22 Analyzed: 09/08/22				
Chloride	ND	20.0							
LCS (2237038-BS1)					Prepared: 09/08/22 Analyzed: 09/08/22				
Chloride	252	20.0	250		101	90-110			
LCS Dup (2237038-BSD1)					Prepared: 09/08/22 Analyzed: 09/08/22				
Chloride	251	20.0	250		100	90-110	0.540	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:	Mosaic Federal 2419 WA #002H	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	09/09/22 13:39

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

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

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

Client: Kaiser Francis Oil Co		Bill To		Lab Use Only		TAT		EPA Program					
Project: Mosaic Federal 2419 WA #002H		Attention: Wescom Inc		Lab WO# E209020		Job Number 21022-0001		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Ashley Giovengo		Address: 1224 Standpipe Rd						X					
Address: 1224 Standpipe Rd		City, State, Zip: Carlsbad, NM 88220											RCRA
City, State, Zip: Carlsbad, NM 88220		Phone: 505-382-1211											
Phone: 505-382-1211		Email: ashley.giovengo@wescominc.com											
Email: ashley.giovengo@wescominc.com													
Report due by:													

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
12:58	9/6/22	Soil	1 Jar	SS07A - 0'	1							X		
13:53	9/6/22	Soil	1 Jar	SS08 - 0'	2							X		
10:09	9/6/22	Soil	1 Jar	CONF 34 - 1'	3							X		
10:17	9/6/22	Soil	1 Jar	CONF35 - 1'	4							X		
10:43	9/6/22	Soil	1 Jar	CONF38 - 1.5'	5							X		
10:46	9/6/22	Soil	1 Jar	CONF39 - 1.5'	6							X		
10:48	9/6/22	Soil	1 Jar	CONF40 - 1.5'	7							X		
11:12	9/6/22	Soil	1 Jar	CONF44 - 1.5'	8							X		
11:14	9/6/22	Soil	1 Jar	CONF45 - 1.5'	9							X		
14:30	9/6/22	Soil	1 Jar	CONF46 - 2'	10							X		

**Additional Instructions:** Kept on ice, Please CC: cole.burton@wescominc.com, shar.harvester@wescominc.com, ashley.giovengo@wescominc.com

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only
<i>[Signature]</i>	09.07.2022	10:45	<i>[Signature]</i>	9-7-22	11:00	Received on ice: Y / N
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1
<i>[Signature]</i>	9-7-22	11:15	<i>[Signature]</i>	9/8/22	10:30	T2
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T3
						AVG Temp °C 4

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

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

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

Client: Kaiser Francis Oil Co		Bill To		Lab Use Only		TAT		EPA Program					
Project: Mosaic Federal 2419 WA #002H		Attention: Wescom Inc		Lab WO# E209020		Job Number 21022-0001		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Ashley Giovengo		Address: 1224 Standpipe Rd						X					
Address: 1224 Standpipe Rd		City, State, Zip: Carlsbad, NM 88220										RCRA	
City, State, Zip: Carlsbad, NM 88220		Phone: 505-382-1211											
Phone: 505-382-1211		Email: ashley.giovengo@wescominc.com											
Email: ashley.giovengo@wescominc.com													
Report due by:													

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	State	Remarks
14:29	9/6/22	Soil	1 Jar	CONF47 - 2'	11							X			
14:33	9/6/22	Soil	1 Jar	CONF48 - 1.5'	12							X			
14:40	9/6/22	Soil	1 Jar	CONF49Wall - 1.5'	13							X			
14:41	9/6/22	Soil	1 Jar	CONF50Wall - 1'	14							X			
14:51	9/6/22	Soil	1 Jar	CONF51Wall - 1'	15							X			
14:55	9/6/22	Soil	1 Jar	CONF52Wall - 1'	16							X			
15:38	9/6/22	Soil	1 Jar	CONF53 - 0'	17							X			

Additional Instructions: Kept on ice, Please CC: cole.burton@wescominc.com, shar.harvester@wescominc.com, ashley.giovengo@wescominc.com

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

Sampled by:

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only
<i>[Signature]</i>	9-7-22	2:15	<i>[Signature]</i>	9-7-22	1:10	Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1
<i>[Signature]</i>	9-7-22	4:15	<i>[Signature]</i>	9/8/22	10:30	T2
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T3
						AVG Temp °C 4

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

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

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

## Envirotech Analytical Laboratory

Printed: 9/8/2022 11:12:00AM

## 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:	09/08/22 10:30	Work Order ID:	E209020
Phone:	(505) 382-1211	Date Logged In:	09/07/22 12:17	Logged In By:	Alexa Michaels
Email:	ashley.giovengo@wescominc.com	Due Date:	09/08/22 17:00 (0 day TAT)		

Chain of Custody (COC)

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

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

Carrier: UPSComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? No

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:  
Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Kaiser Francis Oil Company

Project Name: Mosaic Federal 2419 WA #002H

Work Order: E209038

Job Number: 21022-0001

Received: 9/12/2022

Revision: 0

Report Reviewed By:

**Draft**

Walter Hinchman  
Laboratory Director  
9/12/22

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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

Date Reported: 9/12/22

Ashley Giovengo  
1224 Standpipe Rd  
Carlsbad, NM 88220



Project Name: Mosaic Federal 2419 WA #002H  
Workorder: E209038  
Date Received: 9/12/2022 8:36:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/12/2022 8:36:00AM, under the Project Name: Mosaic Federal 2419 WA #002H.

The analytical test results summarized in this report with the Project Name: Mosaic Federal 2419 WA #002H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

Field Offices:

**Southern New Mexico Area**  
**Lynn Jarboe**  
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Office: 505-421-LABS(5227)  
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[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

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

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

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Sample Summary

Kaiser Francis Oil Company	Project Name:	Mosaic Federal 2419 WA #002H	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	09/12/22 15:11

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS03C-0'	E209038-01A	Soil	09/08/22	09/12/22	Glass Jar, 2 oz.
SS03D-0'	E209038-02A	Soil	09/08/22	09/12/22	Glass Jar, 2 oz.



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Mosaic Federal 2419 WA #002H  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
9/12/2022 3:11:05PM

SS03C-0'

E209038-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2238001
Benzene	ND	0.0250	1	09/12/22	09/12/22	
Ethylbenzene	ND	0.0250	1	09/12/22	09/12/22	
Toluene	ND	0.0250	1	09/12/22	09/12/22	
o-Xylene	ND	0.0250	1	09/12/22	09/12/22	
p,m-Xylene	ND	0.0500	1	09/12/22	09/12/22	
Total Xylenes	ND	0.0250	1	09/12/22	09/12/22	
<i>Surrogate: Bromofluorobenzene</i>	95.1 %	70-130		09/12/22	09/12/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	92.1 %	70-130		09/12/22	09/12/22	
<i>Surrogate: Toluene-d8</i>	94.9 %	70-130		09/12/22	09/12/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2238001
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/12/22	09/12/22	
<i>Surrogate: Bromofluorobenzene</i>	95.1 %	70-130		09/12/22	09/12/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	92.1 %	70-130		09/12/22	09/12/22	
<i>Surrogate: Toluene-d8</i>	94.9 %	70-130		09/12/22	09/12/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2238002
Diesel Range Organics (C10-C28)	ND	25.0	1	09/12/22	09/12/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/12/22	09/12/22	
<i>Surrogate: n-Nonane</i>	90.7 %	50-200		09/12/22	09/12/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2238005
Chloride	47.1	20.0	1	09/12/22	09/12/22	



## Sample Data

Kaiser Francis Oil Company  
1224 Standpipe Rd  
Carlsbad NM, 88220

Project Name: Mosaic Federal 2419 WA #002H  
Project Number: 21022-0001  
Project Manager: Ashley Giovengo

**Reported:**  
9/12/2022 3:11:05PM

SS03D-0'

E209038-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2238001
Benzene	ND	0.0250	1	09/12/22	09/12/22	
Ethylbenzene	ND	0.0250	1	09/12/22	09/12/22	
Toluene	ND	0.0250	1	09/12/22	09/12/22	
o-Xylene	ND	0.0250	1	09/12/22	09/12/22	
p,m-Xylene	ND	0.0500	1	09/12/22	09/12/22	
Total Xylenes	ND	0.0250	1	09/12/22	09/12/22	
Surrogate: Bromofluorobenzene	95.6 %	70-130		09/12/22	09/12/22	
Surrogate: 1,2-Dichloroethane-d4	90.3 %	70-130		09/12/22	09/12/22	
Surrogate: Toluene-d8	94.2 %	70-130		09/12/22	09/12/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2238001
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/12/22	09/12/22	
Surrogate: Bromofluorobenzene	95.6 %	70-130		09/12/22	09/12/22	
Surrogate: 1,2-Dichloroethane-d4	90.3 %	70-130		09/12/22	09/12/22	
Surrogate: Toluene-d8	94.2 %	70-130		09/12/22	09/12/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2238002
Diesel Range Organics (C10-C28)	ND	25.0	1	09/12/22	09/12/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/12/22	09/12/22	
Surrogate: n-Nonane	102 %	50-200		09/12/22	09/12/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2238005
Chloride	ND	20.0	1	09/12/22	09/12/22	



## QC Summary Data

Kaiser Francis Oil Company	Project Name:	Mosaic Federal 2419 WA #002H	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/12/2022 3:11:05PM

## Volatile Organic Compounds by EPA 8260B

Analyst: IY

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

## Blank (2238001-BLK1)

Prepared: 09/12/22 Analyzed: 09/12/22

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	0.486		0.500		97.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.5	70-130			
Surrogate: Toluene-d8	0.481		0.500		96.2	70-130			

## LCS (2238001-BS1)

Prepared: 09/12/22 Analyzed: 09/12/22

Benzene	2.17	0.0250	2.50		86.9	70-130			
Ethylbenzene	2.25	0.0250	2.50		90.2	70-130			
Toluene	2.12	0.0250	2.50		84.7	70-130			
o-Xylene	2.31	0.0250	2.50		92.5	70-130			
p,m-Xylene	4.52	0.0500	5.00		90.3	70-130			
Total Xylenes	6.83	0.0250	7.50		91.1	70-130			
Surrogate: Bromofluorobenzene	0.530		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.460		0.500		91.9	70-130			
Surrogate: Toluene-d8	0.488		0.500		97.6	70-130			



QC Summary Data

Kaiser Francis Oil Company	Project Name:	Mosaic Federal 2419 WA #002H	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/12/2022 3:11:05PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

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

Blank (2238001-BLK1) Prepared: 09/12/22 Analyzed: 09/12/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.486		0.500		97.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.5	70-130			
Surrogate: Toluene-d8	0.481		0.500		96.2	70-130			

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:	Mosaic Federal 2419 WA #002H	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	09/12/22 15:11

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

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

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



Page 10 of 11

## Envirotech Analytical Laboratory

Printed: 9/12/2022 12:02:36PM

## 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:	09/12/22 08:36	Work Order ID:	E209038
Phone:	(505) 382-1211	Date Logged In:	09/12/22 08:48	Logged In By:	Caitlin Christian
Email:	ashley.giovengo@wescominc.com	Due Date:	09/12/22 17:00 (0 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

20. Were field sample labels filled out with the minimum information:
 

Sample ID?	Yes
Date/Time Collected?	No
Collectors name?	No

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

# ATTACHMENT F

## Extension Requests



**Energizing America**

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

**Mosaic Federal 2419 WA #002H** | Incident ID: nAPP2128846984

## Ashley Giovengo

**From:** Aaron Daniels <aarond@kfoc.net>  
**Sent:** Thursday, September 8, 2022 10:15 AM  
**To:** Hutton Andrew  
**Subject:** FW: (Final Extension) NAPP2128846984 - Mosaic Federal 2419 WA #002H

**From:** Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>  
**Sent:** Friday, June 10, 2022 3:53 PM  
**To:** Aaron Daniels <aarond@kfoc.net>  
**Cc:** Hutton Andrew <Huttona@kfoc.net>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@state.nm.us>  
**Subject:** [EXTERNAL] (Final Extension) NAPP2128846984 - Mosaic Federal 2419 WA #002H

RE: Incident #NAPP2128846984

Aaron,

Your request for an extension to **September 13th, 2022** is approved. This will be the **final extension** for this release. The release occurred roughly 8 months ago and the OCD requests a remediation plan within the next 90 days. Move the flowback equipment if necessary. Please include this e-mail correspondence in the remediation and/or closure report.

**Robert Hamlet** • Environmental Specialist - Advanced  
 Environmental Bureau  
 EMNRD - Oil Conservation Division  
 811 S. First Street | Artesia, NM 88210  
 575.909.0302 | [robert.hamlet@state.nm.us](mailto:robert.hamlet@state.nm.us)  
<http://www.emnrd.state.nm.us/OCD/>



**From:** Aaron Daniels <aarond@kfoc.net>  
**Sent:** Friday, June 10, 2022 2:12 PM  
**To:** Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>  
**Cc:** Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Hensley, Chad, EMNRD <Chad.Hensley@state.nm.us>; Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>; Hutton Andrew <Huttona@kfoc.net>  
**Subject:** [EXTERNAL] RE: (Extension Approval) nAPP2128846984 - Mosaic Federal 2419 WA #002H

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

Robert,

After visiting with our Production Superintendent I wanted to provide the following update –

We are experiencing additional/continued sand concerns after being frac hit on 2 wells at this location – we will continue to have flowback equipment in place, as such.

Therefore, I am requesting another 90 day extension.

I will continue to provide updates on our flowback status.

Thanks,

Aaron Daniels  
EHS Manager  
Kaiser-Francis Oil Company  
918-491-4352

---

**From:** Aaron Daniels  
**Sent:** Tuesday, March 8, 2022 11:01 AM  
**To:** Hamlet, Robert, EMNRD <[Robert.Hamlet@state.nm.us](mailto:Robert.Hamlet@state.nm.us)>  
**Cc:** Charles Lock <[CharlesL@kfoc.net](mailto:CharlesL@kfoc.net)>; Bratcher, Mike, EMNRD <[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)>; Hensley, Chad, EMNRD <[Chad.Hensley@state.nm.us](mailto:Chad.Hensley@state.nm.us)>; Velez, Nelson, EMNRD <[Nelson.Velez@state.nm.us](mailto:Nelson.Velez@state.nm.us)>; Nobui, Jennifer, EMNRD <[Jennifer.Nobui@state.nm.us](mailto:Jennifer.Nobui@state.nm.us)>  
**Subject:** RE: (Extension Approval) nAPP2128846984 - Mosaic Federal 2419 WA #002H

Thanks Robert. Will do.

Aaron

---

**From:** Hamlet, Robert, EMNRD <[Robert.Hamlet@state.nm.us](mailto:Robert.Hamlet@state.nm.us)>  
**Sent:** Tuesday, March 8, 2022 10:06 AM  
**To:** Aaron Daniels <[aarond@kfoc.net](mailto:aarond@kfoc.net)>  
**Cc:** Charles Lock <[CharlesL@kfoc.net](mailto:CharlesL@kfoc.net)>; Bratcher, Mike, EMNRD <[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)>; Hensley, Chad, EMNRD <[Chad.Hensley@state.nm.us](mailto:Chad.Hensley@state.nm.us)>; Velez, Nelson, EMNRD <[Nelson.Velez@state.nm.us](mailto:Nelson.Velez@state.nm.us)>; Nobui, Jennifer, EMNRD <[Jennifer.Nobui@state.nm.us](mailto:Jennifer.Nobui@state.nm.us)>  
**Subject:** [EXTERNAL] (Extension Approval) nAPP2128846984 - Mosaic Federal 2419 WA #002H

RE: Incident #NAPP2128846984

Aaron,

Your request for an extension to **June 13th, 2022** is approved. Please let the OCD know when the flowback equipment on the pad has been moved. Please include this e-mail correspondence in the remediation and/or closure report.

**Robert Hamlet** • Environmental Specialist - Advanced  
Environmental Bureau  
EMNRD - Oil Conservation Division  
811 S. First Street | Artesia, NM 88210  
575.909.0302 | [robert.hamlet@state.nm.us](mailto:robert.hamlet@state.nm.us)  
<http://www.emnrd.state.nm.us/OCD/>



**From:** Aaron Daniels <[aarond@kfoc.net](mailto:aarond@kfoc.net)>  
**Sent:** Monday, March 7, 2022 10:38 AM  
**To:** Hamlet, Robert, EMNRD <[Robert.Hamlet@state.nm.us](mailto:Robert.Hamlet@state.nm.us)>  
**Cc:** Charles Lock <[CharlesL@kfoc.net](mailto:CharlesL@kfoc.net)>; Bratcher, Mike, EMNRD <[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)>; Hensley, Chad, EMNRD <[Chad.Hensley@state.nm.us](mailto:Chad.Hensley@state.nm.us)>  
**Subject:** RE: [EXTERNAL] RE: (Extension Approval) nAPP2128846984 - Mosaic Federal 2419 WA #002H

Robert,

We currently have flowback equipment on pad where the remediation needs to occur.

Due to the timing of this release as it correlates with the life-cycle of this well (occurred during the frac), **I am requesting an additional 90 day extension.**

Aaron Daniels  
 Sr. EHS Representative  
 Kaiser-Francis Oil Company  
 918-491-4352

**From:** Hamlet, Robert, EMNRD <[Robert.Hamlet@state.nm.us](mailto:Robert.Hamlet@state.nm.us)>  
**Sent:** Friday, January 21, 2022 10:50 AM  
**To:** Aaron Daniels <[aarond@kfoc.net](mailto:aarond@kfoc.net)>  
**Cc:** Charles Lock <[CharlesL@kfoc.net](mailto:CharlesL@kfoc.net)>; Bratcher, Mike, EMNRD <[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)>; Hensley, Chad, EMNRD <[Chad.Hensley@state.nm.us](mailto:Chad.Hensley@state.nm.us)>  
**Subject:** RE: [EXTERNAL] RE: (Extension Approval) nAPP2128846984 - Mosaic Federal 2419 WA #002H

Aaron,

If you need an additional 30 days as the March 13<sup>th</sup> deadline arrives, we can give you an additional 30 days at that point. Just send us an extension right before the deadline.

Just include this email in your request.

**Robert Hamlet** • Environmental Specialist - Advanced  
 Environmental Bureau  
 EMNRD - Oil Conservation Division  
 811 S. First Street | Artesia, NM 88210  
 575.909.0302 | [robert.hamlet@state.nm.us](mailto:robert.hamlet@state.nm.us)  
<http://www.emnrd.state.nm.us/OCD/>



**From:** Aaron Daniels <[aarond@kfoc.net](mailto:aarond@kfoc.net)>

**Sent:** Friday, January 21, 2022 9:39 AM

**To:** Hamlet, Robert, EMNRD <[Robert.Hamlet@state.nm.us](mailto:Robert.Hamlet@state.nm.us)>

**Cc:** Charles Lock <[CharlesL@kfoc.net](mailto:CharlesL@kfoc.net)>; Bratcher, Mike, EMNRD <[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)>; Hensley, Chad, EMNRD <[Chad.Hensley@state.nm.us](mailto:Chad.Hensley@state.nm.us)>

**Subject:** [EXTERNAL] RE: (Extension Approval) nAPP2128846984 - Mosaic Federal 2419 WA #002H

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

Robert,

I just realized that I requested a 90-day extension, but foolishly listed a date that made it a 60-day extension.

Can we establish that this was a 90-day extension, with the date of April 13<sup>th</sup>?

I apologize for the back and forth, and the error on my part.

Let me know your thoughts.

Aaron Daniels  
Sr. EHS Representative  
Kaiser-Francis Oil Company  
918-491-4352

**From:** Hamlet, Robert, EMNRD <[Robert.Hamlet@state.nm.us](mailto:Robert.Hamlet@state.nm.us)>

**Sent:** Tuesday, January 4, 2022 3:16 PM

**To:** Aaron Daniels <[aarond@kfoc.net](mailto:aarond@kfoc.net)>

**Cc:** Charles Lock <[CharlesL@kfoc.net](mailto:CharlesL@kfoc.net)>; Bratcher, Mike, EMNRD <[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)>; Hensley, Chad, EMNRD <[Chad.Hensley@state.nm.us](mailto:Chad.Hensley@state.nm.us)>; Velez, Nelson, EMNRD <[Nelson.Velez@state.nm.us](mailto:Nelson.Velez@state.nm.us)>

**Subject:** [EXTERNAL] (Extension Approval) nAPP2128846984 - Mosaic Federal 2419 WA #002H

RE: Incident #NAPP2128846984

Aaron,

Your request for an extension to **March 13th, 2022** is approved.

**Robert Hamlet** • Environmental Specialist - Advanced  
Environmental Bureau  
EMNRD - Oil Conservation Division  
811 S. First Street | Artesia, NM 88210  
575.909.0302 | [robert.hamlet@state.nm.us](mailto:robert.hamlet@state.nm.us)  
<http://www.emnrd.state.nm.us/OCD/>



**From:** Aaron Daniels <[aarond@kfoc.net](mailto:aarond@kfoc.net)>

**Sent:** Monday, January 3, 2022 11:36 AM

**To:** Bratcher, Mike, EMNRD <[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)>; Hamlet, Robert, EMNRD <[Robert.Hamlet@state.nm.us](mailto:Robert.Hamlet@state.nm.us)>; Eads, Cristina, EMNRD <[Cristina.Eads@state.nm.us](mailto:Cristina.Eads@state.nm.us)>; Hensley, Chad, EMNRD <[Chad.Hensley@state.nm.us](mailto:Chad.Hensley@state.nm.us)>

**Cc:** Charles Lock <[CharlesL@kfoc.net](mailto:CharlesL@kfoc.net)>

**Subject:** [EXTERNAL] nAPP2128846984 - Mosaic Federal 2419 WA #002H - 90 day extension

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

Good Morning All,

This email serves as an extension request for the remediation of the release associated with the Mosaic Federal 2419 WA #002H. I am requesting an extension from the original January 13, 2022 due date to March 13, 2022. The delay is due to ongoing operations on the well/wellhead/surrounding areas.

Thank you for your time and consideration.

Give me a call if you have any questions or concerns.

Aaron Daniels  
Sr. EHS Representative  
Kaiser-Francis Oil Company  
918-491-4352

# ATTACHMENT G

## Confirmation Sampling Variance Request



**Energizing America**

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

**Mosaic Federal 2419 WA #002H** | Incident ID: nAPP2128846984

## Ashley Giovengo

**From:** Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>  
**Sent:** Tuesday, August 30, 2022 12:03 PM  
**To:** Shar Harvester; Enviro, OCD, EMNRD  
**Cc:** Hutton Andrew; EHSDB; Aaron Daniels; Cole Burton; Israel Estrella; Ashley Giovengo  
**Subject:** RE: [EXTERNAL] 48-Hour Notification (Same-Day Request) - Mosaic Federal 2419 WA # 002H - nAPP2128846984

Shar,

OCD will grant a variance to confirmation sample notification requirements listed in 19.15.29 NMAC, for this sampling event. Please proceed on your schedule.

Thank you,

**Mike Bratcher** • Incident Supervisor  
 Environmental Bureau  
 EMNRD - Oil Conservation Division  
 506 W. Texas Ave | Artesia, NM 88210  
 (575) 626-0857 | [mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)  
<http://www.emnrd.state.nm.us/OCD/>



**From:** Shar Harvester <Shar.Harvester@WescomInc.com>  
**Sent:** Tuesday, August 30, 2022 11:57 AM  
**To:** Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>  
**Cc:** Hutton Andrew <Huttona@kfoc.net>; EHSDB <EHSDB@kfoc.net>; Aaron Daniels <aarond@kfoc.net>; Shar Harvester <Shar.Harvester@WescomInc.com>; Cole Burton <cole.burton@wescominc.com>; Israel Estrella <Israel.Estrella@wescominc.com>; Ashley Giovengo <ashley.giovengo@wescominc.com>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>  
**Subject:** [EXTERNAL] 48-Hour Notification (Same-Day Request) - Mosaic Federal 2419 WA #002H - nAPP2128846984

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

Hello All,

Due to an emergency shut-in and impending weather fronts, we would like to complete confirmation samples at the Mosaic Federal 2419 WA #002H— nAPP2128846984 starting on 8/30/22.

Please let us know if you plan to be onsite to oversee this sampling event or have any questions regarding the short notice.

Thank you,

**Shar Harvester**, Environmental Operations President  
O (218) 724-1322 | C (218) 355-8047  
[WescomInc.com](http://WescomInc.com) | [shar.harvester@WescomInc.com](mailto:shar.harvester@WescomInc.com)  
"I am in charge of my own safety."



Minnesota | North Dakota | New Mexico | Wisconsin

**District I**

1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**

811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**

1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**

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

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

CONDITIONS

Action 142865

**CONDITIONS**

Operator: KAISER-FRANCIS OIL CO PO Box 21468 Tulsa, OK 74121146	OGRID: 12361
	Action Number: 142865
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
rhamlet	The Kaiser-Francis deferral requests to complete final remediation during any future major construction/alteration or final plugging/abandonment, whichever occurs first. Wescom and Kaiser-Francis do not believe deferment will result in imminent risk to human health, the environment, or groundwater. The areas requested for deferral are for the removal of soils surrounding the wellheads and other necessary production equipment, which includes sample location "CONF52 Wall". The areas have been delineated and documented in the report. At this time, OCD approves this request. The Deferral Request and C-141 will be accepted for record and marked accordingly. The release will remain open in OCD database files and reflect an open environmental issue.	12/12/2022