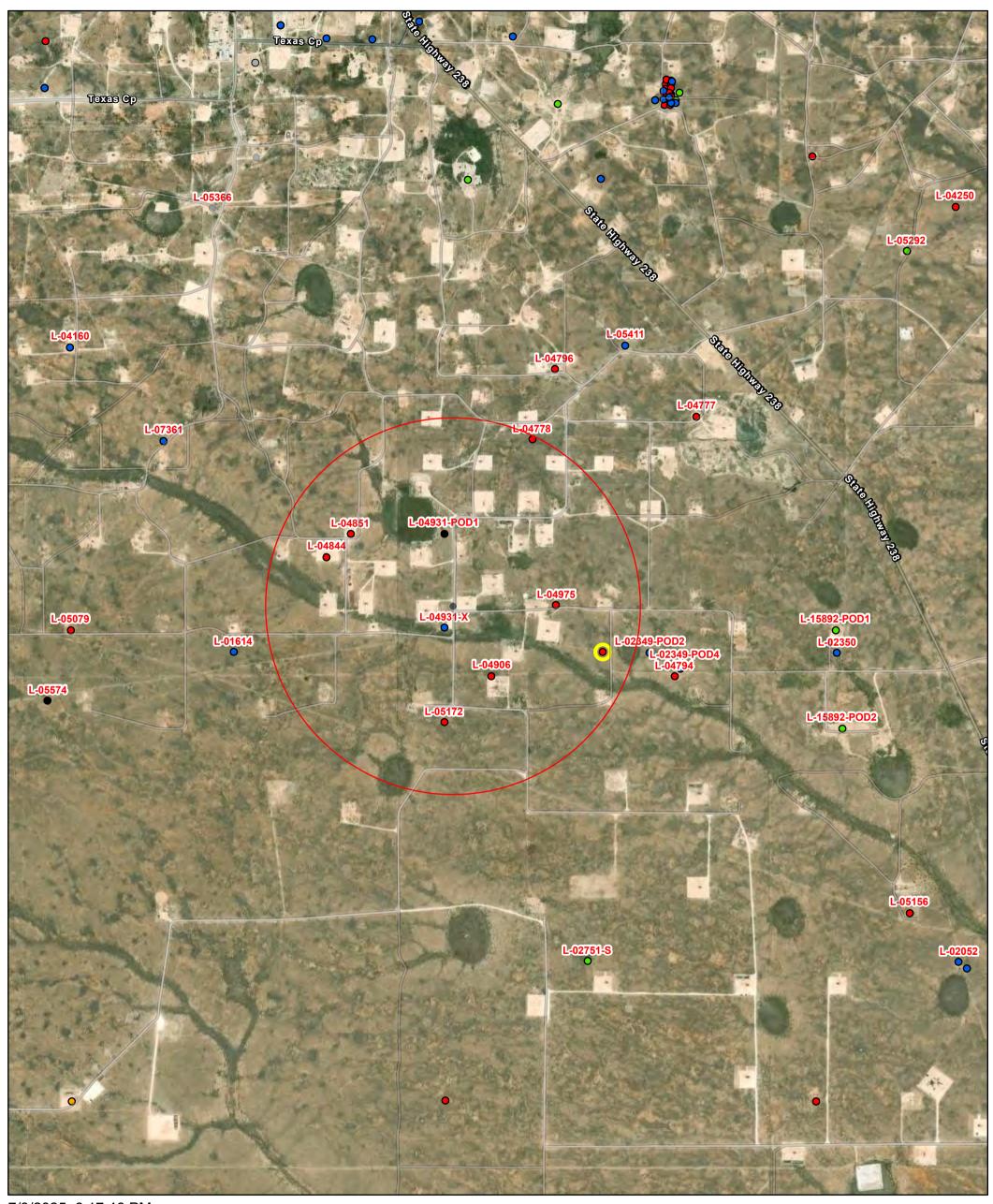
# OSE POD 0.5 miles



7/3/2025, 6:17:46 PM

GIS WATERS PODs

Capped

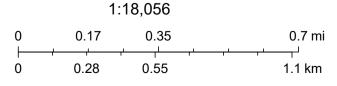
Active

Plugged

Pending

Inactive

OSE District Boundary



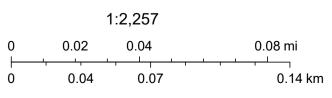
Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community, Maxar

# USGS 324558103304001, 829 feet



7/5/2025, 6:05:50 AM

- **OSE Water PODs**
- **USGS Historical GW Wells**
- PLSS Second Division
- **PLSS First Division**



Maxar, Microsoft, USGS, OCD, Esri, HERE, Garmin, iPC, BLM

# Water Column/Average Depth to Water

(A CLW#### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replaced, O=orphaned, C=the file is closed)				ers are st to lar	gest)				(NAD83 UTN	И in meters)			(In feet)	(In feet)	( <b>I</b> n feet
POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	x	Υ	Мар	Distance	Well Depth	Depth Water	Water Column
L 04931 X		L	LE		NW	SW	07	185	35E	640208.0	3625735.0 *	•	99	212	105	107
<u>L 04906</u>		L	LE			SW	07	185	35E	640415.0	3625532.0 *	•	341	155	87	68
L 04975		L	LE	NE	NE	SW	07	185	35E	640688.0	3625837.0 *	•	444	152	105	47
L 05172		L	LE		SW	SW	07	185	35E	640214.0	3625331.0 *	•	497	161	85	76
L 04851		L	LE		SE	NE	12	185	34E	639801.0	3626130.0 *		536	155	95	60
L 02349	R	L	LE	SW	NW	SE	07	185	35E	640891.0	3625641.0 *	•	673	207	85	122
<u>L 04778</u>		L	LE		NE	NW	07	185	35E	640575.0	3626545.0 *	•	789	150	75	75
L 02349 POD2		L	LE	SE	NW	SE	07	185	35E	641091.0	3625641.0 *	•	867	214	85	129
L 01614		L	LE	SW	NW	SE	12	185	34E	639305.0	3625618.0 *	•	962	204	85	119
L 04794		L	LE			SE	07	185	35E	641200.0	3625540.0 *	•	998	150	95	55
L 02349 POD3		L	LE	SE	NW	SE	07	185	35E	641225.0	3625573.6		1013	220	142	78
L 04796		L	LE	SE	SE	SW	06	185	35E	640667.0	3626847.0 *	•	1103	150	95	55
L 04777		L	LE	NW	NE	NE	07	185	35E	641279.0	3626653.0 *	•	1323	145	85	60
<u>L 05411</u>		L	LE		SW	SE	06	185	35E	640970.0	3626952.0 *	•	1338	120	60	60
L 05139		L	LE		NE	NW	12	185	34E	638992.0	3626517.0 *	•	1429	150	95	55
L 07361		L	LE		NE	NW	12	185	34E	638992.0	3626517.0 *		1429	202	100	102
L 05079		L	LE		NW	SW	12	185	34E	638604.0	3625702.0 *	•	1644	159	76	83
L 02350		L	LE	SE	NW	SW	80	185	35E	641897.0	3625650.0 *	•	1662	216	105	111
L 05574	R	L	LE	NW	SW	SW	12	185	34E	638509.0	3625399.0 *	•	1787			
L 05523		L	LE	SW	SW	NE	06	185	35E	640855.0	3627660.0 *	•	1931	147	85	62
<u>L 04160</u>		L	LE		SW	SW	01	185	34E	638585.0	3626911.0 *	•	1981	165	100	65
														Average	Depth to Wa	ater: <b>92 f</b> e
														Minimum	Depth: <b>60</b>	feet
														Maximun	n Depth: <b>14</b>	2 feet



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**National Water Information System: Web Interface** 

**USGS** Water Resources

Groundwater **United States** GO

#### Click to hideNews Bulletins

• Explore the NEW USGS National Water Dashboard interactive map to access real-time water data from over 13,500 stations nationwide.

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs site\_no list =

• 324558103304001

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

#### USGS 324558103304001 18S.34E.12.12242

Lea County, New Mexico

Latitude 32°46'07", Longitude 103°30'51" NAD27

Land-surface elevation 3,989.00 feet above NGVD29

The depth of the well is 202 feet below land surface.

This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer.

This well is completed in the Ogallala Formation (1210GLL) local aquifer.

#### **Output formats**

Table of data					
Tab-separated data					
Graph of data					
Reselect period					

Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measur
1976-02-13		D	62610		3893.96	NGVD29	1	Z		
1976-02-13		D	62611		3895.51	NAVD88	1	Z		
1976-02-13		D	72019	95.04			1	Z		
1981-03-11		D	62610		3889.22	NGVD29	1	Z		
1981-03-11		D	62611		3890.77	NAVD88	1	Z		
1981-03-11		D	72019	99.78			1	Z		
1986-04-03		D	62610		3882.33	NGVD29	1	Z		
1986-04-03		D	62611		3883.88	NAVD88	1	Z		
1986-04-03		D	72019	106.67			1	Z		
1991-05-23		D	62610		3879.47	NGVD29	1	Z		
1991-05-23		D	62611		3881.02	NAVD88	1	Z		
1991-05-23		D	72019	109.53			1	Z		
1996-02-15		D	62610		3875.05	NGVD29	1	S		
1996-02-15		D	62611		3876.60	NAVD88	1	S		
1996-02-15		D	72019	113.95			1	S		

#### USGS Groundwater for USA: Water Levels -- 1 sites Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	Α	Approved for publication Processing and review completed.

**Questions or Comments** <u>Help</u> Data Tips Explanation of terms Subscribe for system changes

Privacy Accessibility FOIA Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey
Title: Groundwater for USA: Water Levels

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2025-07-05 07:17:25 EDT

0.37 0.31 nadww01





# 02\_BLeeState#006\_Watercourse\_367.7ft



April 23, 2025

#### 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.



# 03\_BLeeState#006\_Lake\_1018ft



July 14, 2025

#### Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

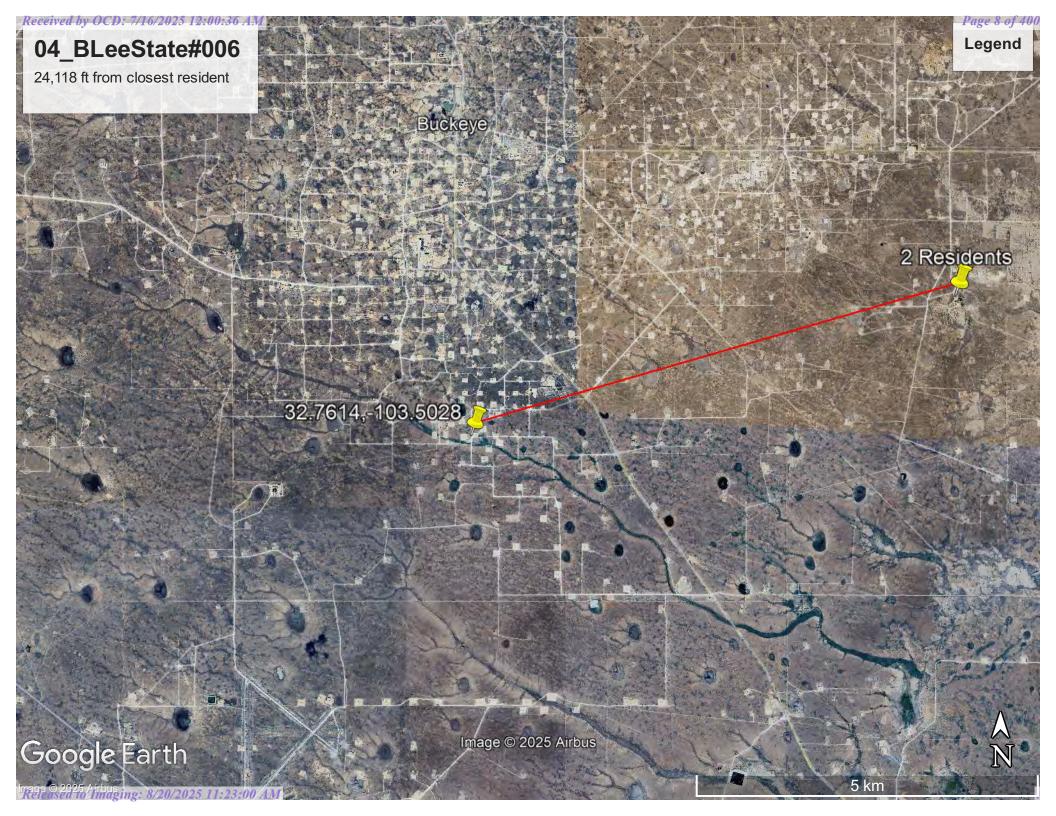
Lake

Other

Riverine

\_\_\_ Othe

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



#### **Active & Inactive Points of Diversion**

(with Ownership Information)

						()	with O	wnership Information)											
			(acre ft per annum)					(R=POD has been replaced and no longer serves this file, C=the file is closed)			ers are 1 ers are s			SW 4=SE st)	Đ	(NAD83 UTN	l in meters)		(meters)
WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Well Tag	Code Grant	Source	q64	q16	q4	Sec	Tws	Range	x	Υ	Мар	Distance
L 04931	L	SRO	486.000	MOBIL PRODUCING TX. & N.M. INC	LE	<u>L 04931 X</u>			Shallow		NW	SW	07	18S	35E	640208.0	3625735.0 *	•	99.7
					LE	L 04931 POD1		R			SW	NW	07	185	35E	640202.0	3626138.0 *	•	312.8
<u>L 04906</u>	L	PRO	0.000	LLANO DRILLING COMPANY	LE	<u>L 04906</u>			Shallow			SW	07	185	35E	640415.0	3625532.0 *	•	341.8
<u>L 04975</u>	L	PRO	0.000	HUMBLE OIL & REFINING COMPANY	LE	<u>L 04975</u>			Shallow	NE	NE	SW	07	185	35E	640688.0	3625837.0 *	•	444.1
L 05172	L	PRO	0.000	ROWAN DRILLING COMPANY	LE	<u>L 05172</u>			Shallow		SW	SW	07	185	35E	640214.0	3625331.0 *	•	497.9
<u>L 04851</u>	L	PRO	0.000	HUMBLE OIL & REFINING COMPANY	LE	<u>L 04851</u>			Shallow		SE	NE	12	185	34E	639801.0	3626130.0 *	•	536.1
<u>L 04844</u>	L	PRO	0.000	HUMBLE OIL & REFINING COMPANY	LE	L 04844				SW	SE	NE	12	185	34E	639700.0	3626029.0 *	•	579.9
L 02347	L	IND	0.000	NATIONAL POTASH COMPANY	LE	<u>L 02349</u>		R	Shallow	SW	NW	SE	07	185	35E	640891.0	3625641.0 *	•	673.5
<u>L 04778</u>	L	PRO	0.000	SHARP DRILLING COMPANY	LE	L 04778			Shallow		NE	NW	07	185	35E	640575.0	3626545.0 *	•	789.7
<u>L 02347</u>	L	IND	0.000	NATIONAL POTASH COMPANY	LE	L 02349 POD2			Shallow	SE	NW	SE	07	185	35E	641091.0	3625641.0 *	•	867.4
<u>L 02349</u>	L	IND	0.000	FREEPORT SULPHUR COMPANY	LE	L 02349 POD2			Shallow	SE	NW	SE	07	18S	35E	641091.0	3625641.0 *	•	867.4
<u>L 02675</u>	L	IND	8330.000	INTREPID MINING NM LLC	LE	L 02349 POD2			Shallow	SE	NW	SE	07	185	35E	641091.0	3625641.0 *	•	867.4
L 01613	L	IND	0.000	NATIONAL POTASH COMPANY	LE	<u>L 01614</u>			Shallow	SW	NW	SE	12	185	34E	639305.0	3625618.0 *	•	962.2
L 01613 A	L	IND	0.000	NATIONAL POTASH COMPANY	LE	<u>L 01614</u>			Shallow	SW	NW	SE	12	185	34E	639305.0	3625618.0 *	•	962.2
L 01613 B	L	сом	0.000	NATIONAL POSTASH COMPANY	LE	<u>L 01614</u>			Shallow	SW	NW	SE	12	185	34E	639305.0	3625618.0 *	•	962.2
L 01614	L	IND	0.000	FREEPORT SULPHUR CO.	LE	<u>L 01614</u>			Shallow	SW	NW	SE	12	185	34E	639305.0	3625618.0 *	•	962.2
<u>L 02675</u>	L	IND	8330.000	INTREPID MINING NM LLC	LE	<u>L 01614</u>			Shallow	SW	NW	SE	12	18S	34E	639305.0	3625618.0 *	•	962.2
<u>L 04794</u>	L	PRO	0.000	MARCUM DRILLING CO	LE	<u>L 04794</u>			Shallow			SE	07	185	35E	641200.0	3625540.0 *	•	998.4
<u>L 02675</u>	L	IND	8330.000	INTREPID MINING NM LLC	LE	L 02349 POD3			Artesian	SE	NW	SE	07	185	35E	641225.0	3625573.6	•	1,013.4
					LE	L 02349 POD4	21482			SW	NE	SE	07	185	35E	641242.0	3625587.0	•	1,026.7
<u>L 04796</u>	L	PRO	0.000	A W THOMPSON INC	LE	<u>L 04796</u>			Shallow	SE	SE	SW	06	185	35E	640667.0	3626847.0 *	•	1,103.3
L 04777	L	PRO	0.000	NOBLE DR <b>I</b> LLIN CO	LE	<u>L 04777</u>			Shallow	NW	NE	NE	07	185	35E	641279.0	3626653.0 *	•	1,323.6
<u>L 05411</u>	L	PRO	0.000	CAMAY DRILLING COMPANY	LE	<u>L 05411</u>			Shallow		SW	SE	06	185	35E	640970.0	3626952.0 *	•	1,338.1
<u>L 05139</u>	L	PRO	0.000	MARCUM DRILLING CO	LE	L 05139			Shallow		NE	NW	12	185	34E	638992.0	3626517.0 *	•	1,429.1
<u>L 07361</u>	L	STK	3.000	SCHARBAUER CATTLE COMPANY	LE	L 07361			Shallow		NE	NW	12	185	34E	638992.0	3626517.0 *	•	1,429.1
L 02052	L	UTL	1906.000	SOUTHWESTERN PUBLIC SERVICE CO	LE	<u>L 02751 S</u>							18	18S	35E	640844.0	3624320.0 *	•	1,623.0
L 02751	L	IND	0.000	SOUTHWESTERN PUBLIC SERVICE CO	LE	<u>L 02751 S</u>							18	185	35E	640844.0	3624320.0 *	•	1,623.0
<u>L 05079</u>	L	PRO	0.000	YATES DRILLING	LE	L 05079			Shallow		NW	SW	12	185	34E	638604.0	3625702.0 *	•	1,644.8
<u>L 15892</u>	L	MON	0.000	BUCKEYE DISPOSAL LLC	LE	L 15892 POD1	NA			SE	NW	SW	08	18S	35E	641888.6	3625748.5		1,646.5
<u>L 02347</u>	L	IND	0.000	NATIONAL POTASH COMPANY	LE	<u>L 02350</u>			Shallow	SE	NW	SW	08	185	35E	641897.0	3625650.0 *	•	1,662.6
<u>L 02350</u>	L	<b>I</b> ND	0.000	FREEPORT SULPHUR COMPANY	LE	L 02350			Shallow	SE	NW	SW	08	185	35E	641897.0	3625650.0 *	•	1,662.6

			(acre ft per annum)					and no	D has been replaced longer serves this file, file is closed)			ers are 1 ers are s			W 4=SE	)	(NAD83 UTM	1 in meters)		(meters)
WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Well Tag	Code	Grant	Source	q64	q16	q4	Sec	Tws	Range	x	Υ	Мар	Distance
L 02675	L	IND	8330.000	INTREPID MINING NM LLC	LE	<u>L 02350</u>				Shallow	SE	NW	SW	08	185	35E	641897.0	3625650.0 *	•	1,662.6
<u>L 15892</u>	L	MON	0.000	BUCKEYE DISPOSAL LLC	LE	L 15892 POD2	NA				SE	SW	SW	08	185	35E	641923.7	3625330.0	•	1,752.0
<u>L 05574</u>	L	SRO	5.000	TEXACO INC.	LE	L 05574		R		Shallow	NW	SW	SW	12	185	34E	638509.0	3625399.0 *	•	1,787.3
<u>L 13951</u>	L	MON	0.000	CHEVRON ENVIRONMENTAL MGT CO	LE	L 13951 POD1					SE	SW	NW	06	185	35E	640283.9	3627649.9	•	1,822.3
<u>L 05523</u>	L	STK	3.000	GILES LEE	LE	L 05523				Shallow	SW	SW	NE	06	185	35E	640855.0	3627660.0 *	•	1,931.2
<u>L 04160</u>	L	PRO	0.000	GACKLE DRILLING CO	LE	L 04160				Shallow		SW	SW	01	185	34E	638585.0	3626911.0 *	•	1,981.2
<u>L 05366</u>	L	OIL	0.000	TEXACO INC.	LE	L 05366								01	185	34E	639188.0	3627514.0 *	•	1,989.4

Record Count: 38

Filters Applied:

UTM Filters (in meters): Easting: 640244 Northing: 3625828 Radius: 002000

Sorted By: Distance

\* 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.

7/3/25 6:23 PM MST Active & Inactive Points of Diversion

## **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 Nbr** Q64 Q16 Q4 Tws Rng X Мар Sec L 07361 NE NW 12 **18S** 34E 638992.0 3626517.0 \* \* UTM location was derived from PLSS - see Help **Driller License: Driller Company:** O.R. MUSSELWHITE WATER WELL SE **Driller Name:** MUSSELWHITE, O.R. **Drill Start Date: Drill Finish Date:** Plug Date: 1975-04-11 1975-04-13 Log File Date: **PCW Rcv Date:** Source: Shallow 1975-04-21 **Pump Type: Pipe Discharge Size: Estimated Yield:** Casing Size: 6.63 **Depth Well:** 202 **Depth Water:** 100 **Water Bearing Stratifications:** Top **Bottom** Description 125 202 Sandstone/Gravel/Conglomerate **Casing Perforations: Bottom** Top 202 170

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7/4/25 5:07 PM MST Point of Diversion Summary

# **Water Right Summary**



#### **Current Points of Diversion**

POD Number	Well Tag	Source	Q64	Q16	Q4	Sec	Tws	Rng	Х	Υ	Мар	Other Location Desc
<u>L 07361</u>		Shallow		NE	NW	12	18S	34E	638992.0	3626517.0 *		

<sup>\*</sup> UTM location was derived from PLSS - see Help

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7/4/25 5:07 PM MST **Water Rights Summary** 

## **Point of Diversion Summary**

quarters are 1=NW 2=NE 3=SW 4=SE NAD83 UTM in meters quarters are smallest to largest Well Tag **POD Nbr** Q64 Q16 Q4 Tws Rng X Мар Sec L 04931 X NW SW 07 **18S** 35E 640208.0 3625735.0 \* \* UTM location was derived from PLSS - see Help **Driller License: Driller Company:** ABBOTT BROTHERS COMPANY **Driller Name:** MURRELL ABBOTT **Drill Start Date: Drill Finish Date:** Plug Date: 1964-10-05 1964-10-07 Shallow Log File Date: **PCW Rcv Date:** 1965-04-07 Source: 1964-10-15 Pump Type: **TURBIN** Pipe Discharge Size: **Estimated Yield:** Casing Size: 10.75 **Depth Well:** 212 **Depth Water:** 105 **Water Bearing Stratifications: Bottom** Description Top 105 205 Sandstone/Gravel/Conglomerate **Casing Perforations: Bottom** Top 205 105

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7/3/25 6:26 PM MST Point of Diversion Summary

# **Water Right Summary**



WR File Number:	L 04931	Subbasin:	L	Cross Reference:
Primary Purpose:	SRO SECONDARY RECOVERY OF OIL			
Primary Status:	PMT Permit			
Total Acres:	0.000	Subfile:		Header:
Total Diversion:	486.000	Cause/Case:		
	MOBIL PRODUCING TX. & N.M. INC	Owner Class:	Owner	

#### **Documents on File**

(acre-feet per annum)

Transaction Images	Trn #	Doc	File/Act	Status 1	Status 2	Transaction Desc.	From/To	Acres	Diversion	Consumptive
get images	<u>504001</u>	CLW	1981-03-05	PMT	PCW	L 04931	Т	0.000	0.000	
get images	<u>504001</u>	CLW	1981-03-05	PMT	PCW	L 04931	F	0.000	0.000	
get images	<u>504431</u>	COWNF	1979-12-06	CHG	PRC	L 04931 (ADMIN.)	Т	0.000	0.000	
get images	503989	CPLA	1978-09-11	PMT	ET	L 04931	Т	0.000	0.000	
get images	<u>503989</u>	CPLA	1978-09-11	PMT	ET	L 04931	F	0.000	0.000	
get images	503979	COWNF	1966-05-31	CHG	PRC	L 04931	Т	0.000	0.000	
get images	<u>503976</u>	COWNF	1964-09-17	CHG	PRC	L 04931	Т	0.000	0.000	
get images	503832	APPRO	1962-09-19	PMT	PCW	L 04931	Т	0.000	486.000	

#### **Current Points of Diversion**

POD Number	Well Tag	Source	Q64	Q16	Q4	Sec	Tws	Rng	X	Υ	Мар	Other Location Desc
<u>L 04931</u>		Shallow		NW	NE	05	185	35E	642561.0	3628183.0 *		
<u>L 04931 X</u>		Shallow		NW	SW	07	185	35E	640208.0	3625735.0 *		

<sup>\*</sup> UTM location was derived from PLSS - see Help

#### **Priority Summary**

Priority	Status	Acres	Diversion	POD Number	Source
1962-07-06	PMT	0.000	486.000	<u>L 04931</u>	Shallow
				L 04931 X	Shallow

#### Place of Use

Q256 Q64 (	Q16 Q4	Sec	Tws	Rng	Acres	Diversion	CU	Use	Priority	Status	Other Location Desc
					0.000	486.000		SRO	1962-07-06	PMT	SEE COMMENTS

#### Source

Acres Diversio	n CU Us	e Priority	Source	Description
0.000 486.000	SR	O 1962-07-0	06 GW	

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.

7/3/25 6:35 PM MST Water Rights Summary

L-0493 Tr. +5 Page 16 of 400

Revised June 1972 SANTA FE

## STATE ENGINEER OFFICE WELL RECORD

(A)	Owner of Street or	well Phi	llips Pe	troleum	Co.	INFORMATION		L Water Well No	Supply
	City and	StateH	obbs, Ne	w Mexic	o 8824	.0			
Well	was drilled	under Permi	t No. <b>L</b> -	4931		and is located	in the:		
							18S Range	35E	N.M.P.N
	b. Tract	No	of Map No.		of th	e			
	c. Lot No	D	of Block No		of th	e			
	Subdiv	vision, recorde	ed in	<u> </u>		County.			
:	d. X=		feet, Y=		feet, N	I.M. Coordinate	System		
B)							License No		Gran
			•			88240			
- 3							Cable		21
41									
Eleva	ation of lar	d surface or .	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	at we	ell is	ft. Total depth of	well237	ft
Com	pleted well	is X	shallow 🗆 a	ırtesian.		Depth to water	r upon completion of	well	f1
			Sec	tion 2. PRIN	ICIPAL WATE	R-BEARING S	TRATA		
1	Depth i	n Feet To	Thickness in Feet	-	Description of	Water-Bearing l	Formation	Estimated (gallons per	
	10	156	46	San	đ			(S	
14.									
4	95	232	37	San	d and gr	aveT			
							·		
- V					on 3. RECORD	OF CASING	·		
	iameter inches)	Pounds per foot	Threads per in.	Depth Top	in Feet Bottom	Length (feet)	Type of Shoe	Perfo From	rations To
i	2 3/4	22	Welded	0	238	238		137	237
4									
d						<u> </u>			<u></u>
				on $A$ DECO	RD OF MUDI	DING AND CEM	IENTING		
	Dep th	n Feet		T				·	
( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	Depth From	n Feet To	Hole Diameter	Sac of M	ks C	ubic Feet of Cement		of Placement	
7 (20 miles) (10 miles			Hole	Sac	ks C	ubic Feet		of Placement	
The state of the s			Hole Diameter	Sac	ks C	ubic Feet		of Placement	
The state of the s		То	Hole Diameter	Sac	ks C	ubic Feet		of Placement	
The state of the s		To	Hole Diameter	Sac	ks C	ubic Feet		of Placement	
	From	To	Hole Diameter	Sac of M	ks C	rubic Feet f Cement		of Placement	
llugg	From	To	Hole Diameter	Sac of M	ks Coud o	rubic Feet of Cement  NG RECORD			ubic Feet
Plugg Addr Plugg	From  ging Contra ress	To	Hole Diameter	Sac of M	ks Coud o	NG RECORD	Method  Depth in Fe	et C	ubic Feet f Cement
Plugg Addr Plugg Date	From ging Contra	To	Hole Diameter	Sac of M	ks Coud o	rubic Feet of Cement  NG RECORD	Method  Depth in Fe	et C	
Plugg Addr Plugg Date	ging Contra ess ging Metho Well Plugg	To	Hole Diameter	Sac of M	ks Coud o	NG RECORD No.	Method  Depth in Fe	et C	

File No.

Location No.

			Section 6. LOG OF HOLE		
		Thickness in Feet	Color and Type of Material Encountered		
From	То	III I eet			
0	26	26	Caliche		
26	110	84	Sandy clay		
110	156	46	Sand-water		
156	195	39	Sandy clay		
195	232	37	Sand and gravel-water		
232	237	5	Red bed		
			L S Elev		
			Loc. No. 18.35.5.2/2/4  Hydro, Survey Field Check 53		
			SOURCE OF ALTITUDE GIVEN  Interpolated from Topo. SheetX  Determined by Inst. Leveling  Other		
			O 11 GU (ACCOUNTED LA COLLEGE		
-					
	• 0	- 3	7		

Section 7. REMARKS AND ADDITIONAL INFORMATION

STATE OFFICE IN STATE OFFICE

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

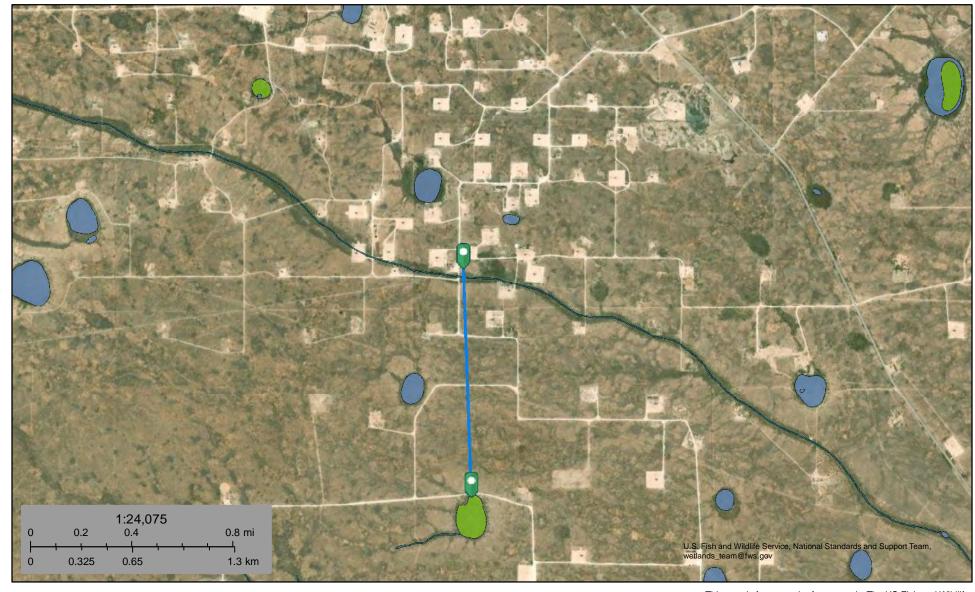
Murrell abbott Driller N.B.

INSTRUCTIONS: This fo puld be executed in triplicate, preferably typewritten, and enbmitted to of the State Engineer. All ons, expressions on Section 5, shall be answered as completely accurate Released to Imaging: 8/20/2025 11:23:00 AM or is used as a plugging record, only Section 1(a) and Section

appropriate district office possible when any well is ed be completed.



# 07\_BLeeState#006\_Wetland\_4007.8ft



April 23, 2025

#### Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

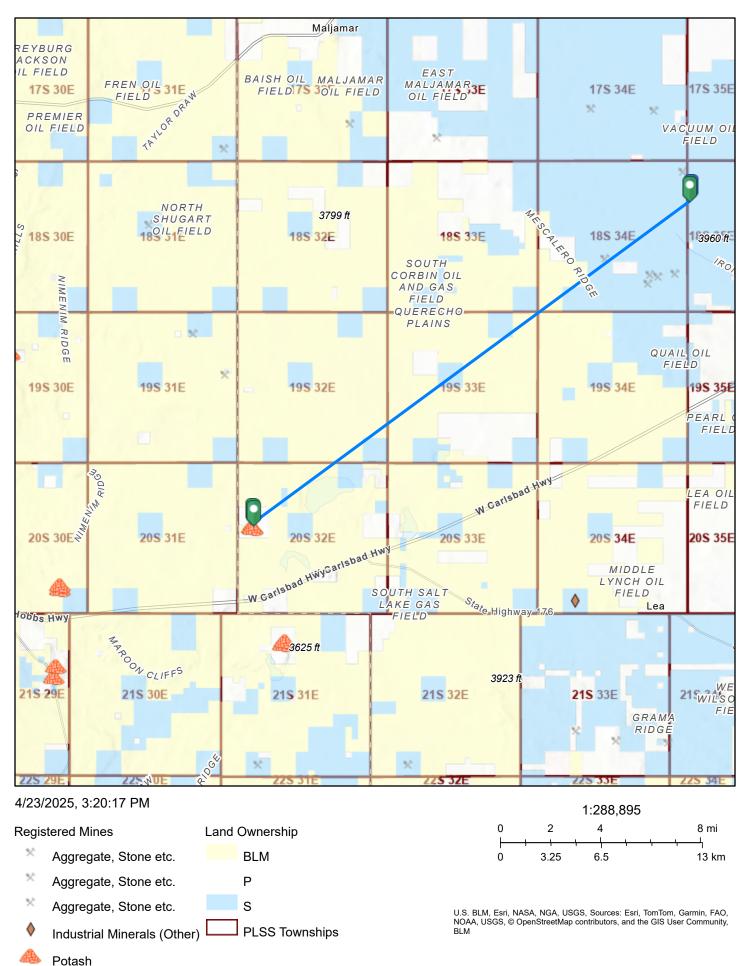
Lake

Riverine

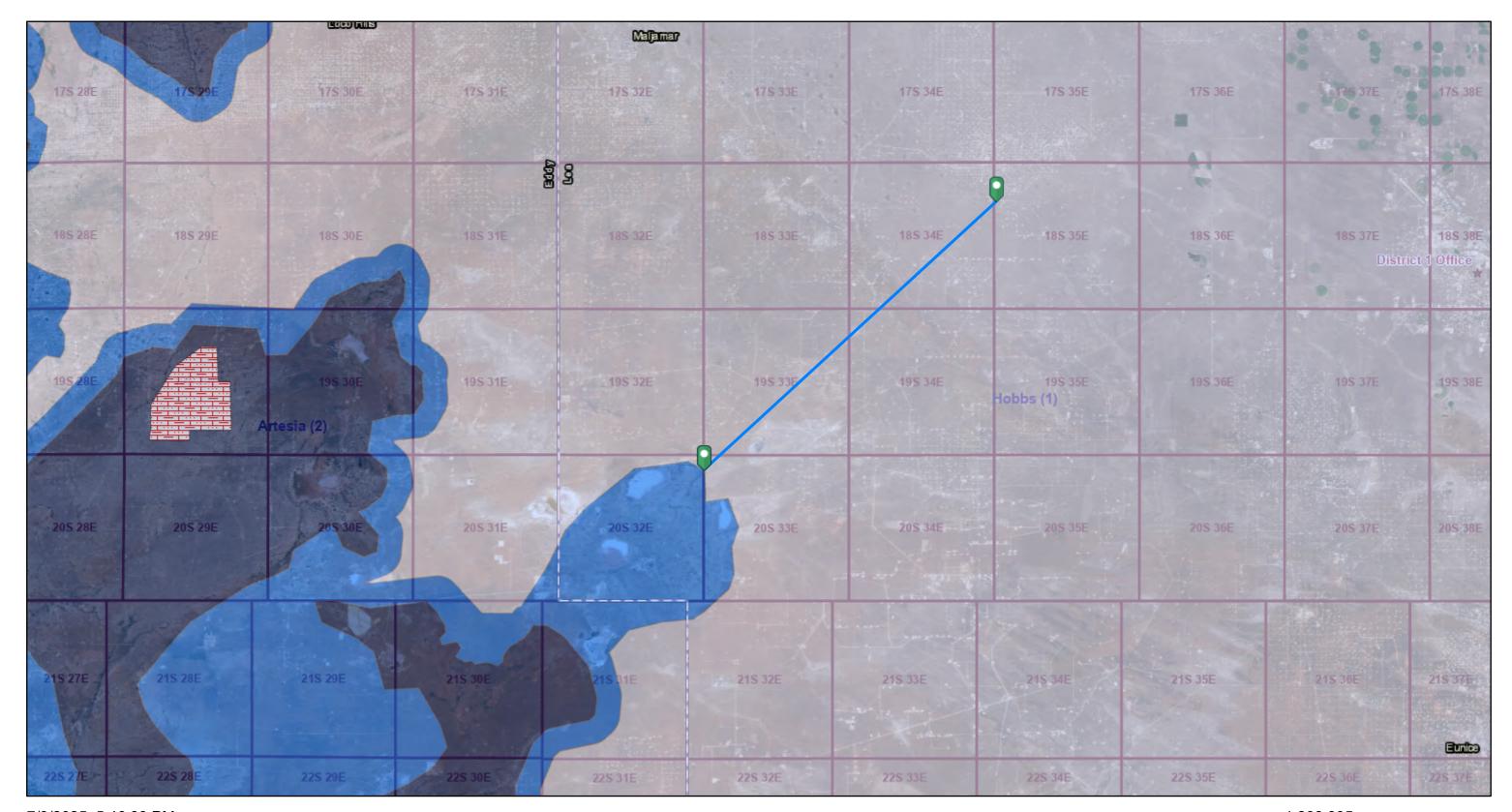
Other

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

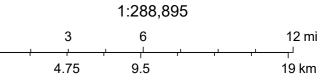
## Active Mines in New Mexico



# Medium Karst 86,468 feet







BLM, OCD, New Mexico Tech, Esri, HERE, Garmin, Earthstar Geographics, OCD, BLM

# National Flood Hazard Layer FIRMette





SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT Without Base Flood Elevation (BFE)

SPECIAL FLOOD HAZARD AREAS

With BFE or Depth Zone AE, AO, AH, VE, AR

Regulatory Floodway

0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X

Area with Flood Risk due to Levee Zone D

**Future Conditions 1% Annual** Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes. Zone X

OTHER AREAS OF FLOOD HAZARD

NO SCREEN Area of Minimal Flood Hazard Zone X

Effective LOMRs

OTHER AREAS

Area of Undetermined Flood Hazard Zone D

GENERAL

- - - Channel, Culvert, or Storm Sewer STRUCTURES | LILLIL Levee, Dike, or Floodwall

> 20.2 Cross Sections with 1% Annual Chance 17.5 Water Surface Elevation **Coastal Transect** Base Flood Elevation Line (BFE)

Limit of Study Jurisdiction Boundary

OTHER **FEATURES**  -- Coastal Transect Baseline **Profile Baseline** 

Hydrographic Feature

Digital Data Available

MAP PANELS

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.

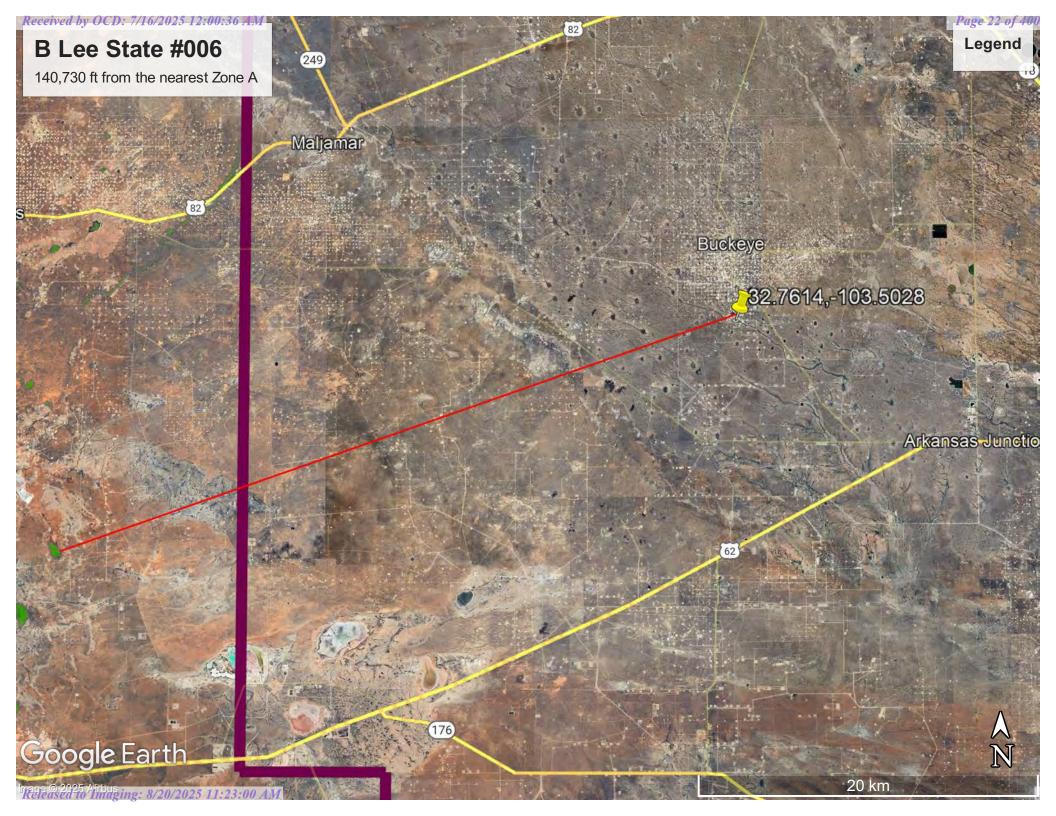
This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 4/23/2025 at 9:42 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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



2,000

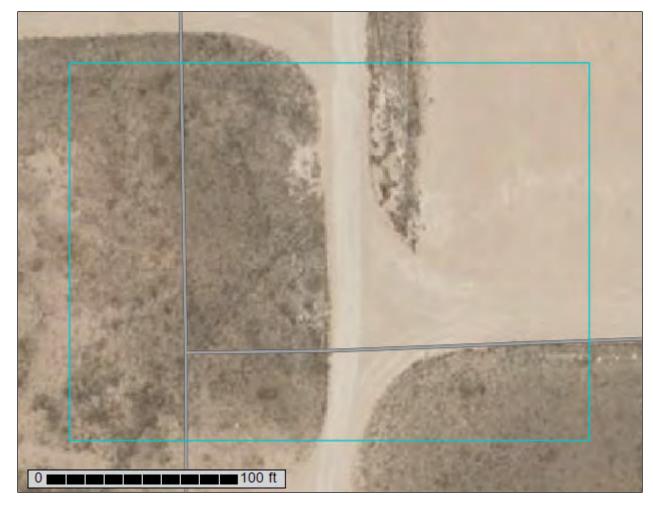




**VRCS** 

Natural Resources Conservation Service A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

# Custom Soil Resource Report for Lea County, New Mexico





#### MAP LEGEND

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**Water Features** 

Transportation

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00

Background

Spoil Area

Stony Spot

Wet Spot

Other

Rails

**US Routes** 

Major Roads

Local Roads

Very Stony Spot

Special Line Features

Streams and Canals

Interstate Highways

Aerial Photography

#### Area of Interest (AOI)

Area of Interest (AOI)

#### Soils

Soil Map Unit Polygons

-

Soil Map Unit Lines

Soil Map Unit Points

#### **Special Point Features**

Blowout

 $\boxtimes$ 

Borrow Pit

100 100 -----

Clay Spot

 $\Diamond$ 

Closed Depression

×

**Gravel Pit** 

00

**Gravelly Spot** 

0

Landfill Lava Flow

٨.

Marsh or swamp

尕

Mine or Quarry

0

Miscellaneous Water
Perennial Water

0

Rock Outcrop

+

Saline Spot

. .

Sandy Spot

\_

Severely Eroded Spot

Λ

Sinkhole

8

Slide or Slip

28

Sodic Spot

#### MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20.000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Lea County, New Mexico Survey Area Data: Version 21, Sep 3, 2024

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 7, 2020—May 12, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Lea County, New Mexico

#### KO—Kimbrough gravelly loam, dry, 0 to 3 percent slopes

#### **Map Unit Setting**

National map unit symbol: 2tw43 Elevation: 2,500 to 4,800 feet

Mean annual precipitation: 14 to 16 inches Mean annual air temperature: 57 to 63 degrees F

Frost-free period: 180 to 220 days

Farmland classification: Not prime farmland

#### **Map Unit Composition**

Kimbrough, dry, and similar soils: 80 percent

Minor components: 20 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

#### **Description of Kimbrough, Dry**

#### Setting

Landform: Playa rims, plains
Down-slope shape: Convex, linear
Across-slope shape: Concave, linear

Parent material: Loamy eolian deposits derived from sedimentary rock

#### **Typical profile**

A - 0 to 3 inches: gravelly loam Bw - 3 to 10 inches: loam

Bkkm1 - 10 to 16 inches: cemented material Bkkm2 - 16 to 80 inches: cemented material

#### Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 4 to 18 inches to petrocalcic

Drainage class: Well drained Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately

low (0.00 to 0.01 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 95 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Very low (about 1.4 inches)

#### Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: D

Ecological site: R077DY049TX - Very Shallow 12-17" PZ

Hydric soil rating: No

#### **Minor Components**

#### **Eunice**

Percent of map unit: 10 percent

Landform: Plains

Down-slope shape: Linear Across-slope shape: Convex

Ecological site: R077DY049TX - Very Shallow 12-17" PZ

Hydric soil rating: No

#### **Spraberry**

Percent of map unit: 6 percent Landform: Playa rims, plains Down-slope shape: Convex, linear

Across-slope shape: Linear

Ecological site: R077DY049TX - Very Shallow 12-17" PZ

Hydric soil rating: No

#### Kenhill

Percent of map unit: 4 percent

Landform: Plains

Down-slope shape: Linear Across-slope shape: Linear

Ecological site: R077DY038TX - Clay Loam 12-17" PZ

Hydric soil rating: No

#### KU—Kimbrough-Lea complex, dry, 0 to 3 percent slopes

#### Map Unit Setting

National map unit symbol: 2tw46 Elevation: 2,500 to 4,800 feet

Mean annual precipitation: 14 to 16 inches
Mean annual air temperature: 57 to 63 degrees F

Frost-free period: 180 to 220 days

Farmland classification: Not prime farmland

#### **Map Unit Composition**

Kimbrough and similar soils: 45 percent Lea and similar soils: 25 percent Minor components: 30 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

#### **Description of Kimbrough**

#### Setting

Landform: Playa rims, plains
Down-slope shape: Convex, linear
Across-slope shape: Concave, linear

Parent material: Loamy eolian deposits derived from sedimentary rock

#### Typical profile

A - 0 to 3 inches: gravelly loam Bw - 3 to 10 inches: loam

Bkkm1 - 10 to 16 inches: cemented material Bkkm2 - 16 to 80 inches: cemented material

#### Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 4 to 18 inches to petrocalcic

Drainage class: Well drained Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately

low (0.00 to 0.01 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 95 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Very low (about 1.4 inches)

#### Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: D

Ecological site: R077DY049TX - Very Shallow 12-17" PZ

Hydric soil rating: No

#### **Description of Lea**

#### Setting

Landform: Plains

Down-slope shape: Convex Across-slope shape: Linear

Parent material: Calcareous, loamy eolian deposits from the blackwater draw formation of pleistocene age over indurated caliche of pliocene age

#### Typical profile

A - 0 to 10 inches: loam Bk - 10 to 18 inches: loam

Bkk - 18 to 26 inches: gravelly fine sandy loam Bkkm - 26 to 80 inches: cemented material

#### **Properties and qualities**

Slope: 0 to 3 percent

Depth to restrictive feature: 22 to 30 inches to petrocalcic

Drainage class: Well drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately

low (0.00 to 0.06 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 90 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 3.0

Available water supply, 0 to 60 inches: Very low (about 2.9 inches)

#### Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: D

Ecological site: R077DY047TX - Sandy Loam 12-17" PZ

Hydric soil rating: No

#### **Minor Components**

#### Douro

Percent of map unit: 12 percent

Landform: Plains

Down-slope shape: Linear Across-slope shape: Linear

Ecological site: R077DY047TX - Sandy Loam 12-17" PZ Other vegetative classification: Unnamed (G077DH000TX)

Hydric soil rating: No

#### Kenhill

Percent of map unit: 12 percent

Landform: Plains

Down-slope shape: Linear Across-slope shape: Linear

Ecological site: R077DY038TX - Clay Loam 12-17" PZ

Hydric soil rating: No

#### **Spraberry**

Percent of map unit: 6 percent Landform: Playa rims, plains Down-slope shape: Convex, linear

Across-slope shape: Linear

Ecological site: R077DY049TX - Very Shallow 12-17" PZ Other vegetative classification: Unnamed (G077DH000TX)

Hydric soil rating: No

# Ecological site R077DY049TX Very Shallow 12-17" PZ

Last updated: 9/11/2023 Accessed: 06/25/2025

#### **General information**

**Provisional**. A provisional ecological site description has undergone quality control and quality assurance review. It contains a working state and transition model and enough information to identify the ecological site.

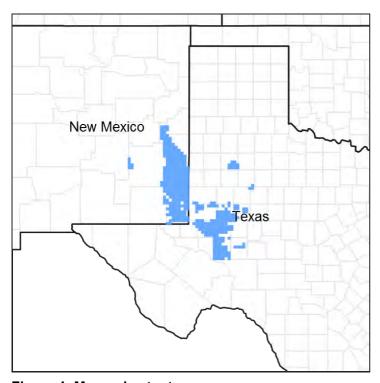


Figure 1. Mapped extent

Areas shown in blue indicate the maximum mapped extent of this ecological site. Other ecological sites likely occur within the highlighted areas. It is also possible for this ecological site to occur outside of highlighted areas if detailed soil survey has not been completed or recently updated.

#### **MLRA** notes

Major Land Resource Area (MLRA): 077D-Southern High Plains, Southwestern Part

This MLRA 77D is characterized by nearly level to gently undulating plains with scattered playa depressions. Soil temperature regime is thermic and soil moisture regime is aridic

bordering on ustic. Sandy and loamy soils are generally well drained and range from shallow to deep and medium- to coarse-textured. Native vegetation is short- to midgrasses and sandy sites support tallgrasses with sand shin oak and mesquite. Current land use is mainly rangeland, although irrigated cropland is expanding.

## **Classification relationships**

This ecological site is correlated to soil components at the Major Land Resource Area (MLRA) level which is further described in USDA Ag Handbook 296.

## **Ecological site concept**

These sites occur on very shallow soils on uplands. The reference vegetation consists of shortgrasses with some midgrasses and forbs. Woody species are rarely present in the reference plant community. Abusive grazing practices may lead to a decrease in palatable plants and a shift in the plant community. Woody species may increase in the absence of periodic fire.

### **Associated sites**

R077DY042TX	Limy Upland 12-17" PZ  Very shallow sites can be found adjacent to Limy Upland sites, MLRA 77D.  The Limy Upland sites will occur as gently undulating soils that occur on broad upland plains. Midgrasses dominate but there is a good mixture of shortgrasses on this site. Production is higher on the Limy Upland sites.
R077DY047TX	Sandy Loam 12-17" PZ Sandy Loam sites, MLRA 77D, can be found adjacent to Very Shallow sites as deeper soils on nearly level plains. Midgrasses dominate but some tallgrasses and shortgrasses can occur on this site. Production is higher on Sandy Loam sites.
R077DY048TX	Shallow 12-17" PZ Shallow sites, MLRA 77D, can be found adjacent to Very Shallow sites as slightly deeper soils on nearly level plains. Midgrasses dominate but a good mixtrue of shortgrasses occurs on this site. Production is similar between Shallow and Very Shallow sites.
R077DY046TX	Sandy 12-17" PZ Sandy sites, MLRA 77D, can be found adjacent to Very Shallow sites as deeper soils on nearly level plains. Midgrasses dominate but there is a good mixture of tallgrasses on this site. Production is similar on the Sandy sites.

## Similar sites

R077DY048TX	Shallow 12-17" PZ	
	Shallow sites, MLRA 77D, will have slightly deeper soils on nearly level plains.	
	Shallow sites have similar vegetation with slightly higher production potential.	

R077CY037TX	Very Shallow 16-21" PZ Very Shallow sites, MLRA 77C, have similar forage plant communities with higher production potential due to higher annual precipitation (16 - 21 inches).
R077EY068TX	Very Shallow 16-24" PZ Very Shallow sites, MLRA 77E, have similar forage plant communities with higher production potential due to higher annual precipitation (16 - 24 inches).

**Table 1. Dominant plant species** 

Tree	Not specified
Shrub	(1) Ephedra (2) Acacia greggii
Herbaceous	<ul><li>(1) Bouteloua eriopoda</li><li>(2) Bouteloua gracilis</li></ul>

## Physiographic features

Soils correlated in the MLRA 77D Very Shallow ecological site are very shallow to shallow to a petrocalcic horizon. They were formed in moderately fine textured eolian sediments of the Blackwater Draw Formation of Pleistocene age. These soils are typically on gently sloping plains, narrow ridges, and side slopes along draws. Slope ranges from 0 to 3 percent.

Landforms include Plain, Ridge, and Playa rims.

Table 2. Representative physiographic features

Landforms	<ul><li>(1) Plateau &gt; Plain</li><li>(2) Plateau &gt; Playa rim</li><li>(3) Plateau &gt; Ridge</li></ul>
Runoff class	Medium to high
Flooding frequency	None
Ponding frequency	None
Elevation	2,500–4,600 ft
Slope	0–3%
Water table depth	80 in
Aspect	W, NW, N, NE, E, SE, S, SW

#### Climatic features

Continental Steppe climate is prevalent in MLRA 77D. This climate type is typical of interiors of continents and is characterized by large variations in the magnitude of ranges

in daily temperature extremes, low relative humidity, and irregularly spaced rainfall of moderate amounts. This climate regime is also known for being semi-arid with mild winters.

Droughts occur with monotonous frequency although there will be years having excessive precipitation resulting in large accumulations of water that little benefit is obtained from the rainfall events. If good rains occur in the spring and summer months, annual production will be favorable even if the remainder of the year is not favorable. Most of the annual precipitation occurs as a result from spring and early summer thunderstorms. Due to the fact that the area is mainly flat, local flooding may occur but only of short duration. There is very little precipitation and infrequent snowfall amounts in the winter.

During the late winter and early spring months, dust storms occur very frequently. The flat plains of the area contribute very little resistance to the strong winds. Dust in many of these storms remains in the air for several days after the storms have passed.

Daytime temperatures are warm in the summer but there is a large diurnal range and most nights are comfortable. In summers, the normal daily maximum temperatures are in the low to mid 90s and the normal minimum temperatures are in the upper 60s and low 70s. Even though the temperatures may be high, the low humidity and high evaporation rates create a cooling effect during the nighttime hours. Fall months exhibit extremely variable weather. Winters are mild and are characterized by frequent cold fronts accompanied by strong, gusty, northerly winds. Most of the cold fronts are dry as they pass through the area.

Table 3. Representative climatic features

Frost-free period (characteristic range)	154-191 days
Freeze-free period (characteristic range)	181-194 days
Precipitation total (characteristic range)	15-17 in
Frost-free period (actual range)	147-195 days
Freeze-free period (actual range)	171-213 days
Precipitation total (actual range)	15-17 in
Frost-free period (average)	167 days
Freeze-free period (average)	190 days
Precipitation total (average)	16 in

#### Climate stations used

- (1) MELROSE [USC00295617], Melrose, NM
- (2) ELIDA [USC00292854], Elida, NM

- (3) CROSSROADS 2 [USC00292207], Crossroads, NM
- (4) CAPROCK [USC00291445], Caprock, NM
- (5) TATUM [USC00298713], Tatum, NM
- (6) HOBBS 13W [USC00294030], Lovington, NM
- (7) ANDREWS [USC00410248], Andrews, TX
- (8) ODESSA SCHLEMEYER FLD [USW00003031], Odessa, TX
- (9) K-BAR RCH [USC00414710], Odessa, TX

## Influencing water features

Water features are not an influencing factor in this site.

## **Wetland description**

None.

#### Soil features

The soils of this site are very shallow, well drained, calcareous, gravelly soils. Permeability is moderate and runoff is low to medium. Parent material is a thin mantle of medium to moderately coarse textured eolian sediments over an indurated layer.

Major Soil Taxonomic Units correlated to this site include: Eunice soils, Kimbrough soils, Simona soils and Spraberry soils.

Table 4. Representative soil features

Parent material	(1) Eolian deposits–igneous, metamorphic and sedimentary rock
Surface texture	<ul><li>(1) Loam</li><li>(2) Gravelly loam</li><li>(3) Fine sandy loam</li><li>(4) Loamy fine sand</li></ul>
Family particle size	(1) Loamy
Drainage class	Well drained
Permeability class	Moderate to rapid
Depth to restrictive layer	4–20 in
Soil depth	4–20 in
Surface fragment cover <=3"	0–10%
Surface fragment cover >3"	0–10%
Available water capacity (0-20in)	0.5–2 in

Calcium carbonate equivalent (0-20in)	0–60%
Electrical conductivity (0-20in)	0–1 mmhos/cm
Sodium adsorption ratio (0-20in)	0–1
Soil reaction (1:1 water) (0-20in)	6.6–8.4
Subsurface fragment volume <=3" (0-20in)	0–60%
Subsurface fragment volume >3" (0-20in)	0–3%

## **Ecological dynamics**

The Reference Plant Community of the Very Shallow Ecological Site is a Shortgrass/Midgrass Community (1.1). Few if any tallgrass species will be found. Grass species account for 85 percent of the total site production. A wide variety of forbs are produced on this site producing 15 percent of the total annual production. Only trace amounts of woody shrubs will be found. This site occupies flat to moderately sloping upland areas. Slopes typically range from 1 to 12 percent. These are shallow to very shallow loam to fine sandy loam soils with a depth of 4 to 20 inches that are underlain by indurated caliche or soft caliche.

The dominant shortgrass species are black grama (*Bouteloua eriopoda*) and blue grama (*Bouteloua gracilis*), with lesser amounts of buffalograss (*Bouteloua dactyloides*), Wright threeawn (Aristida wrightii), hairy grama (*Bouteloua hirsuta*), and fall witchgrass (*Digitaria cognata*). The dominant midgrass species are sideoats grama (*Bouteloua curtipendula*), little bluestem (*Schizachyrium scoparium*), plains bristlegrass (*Setaria macrostachya*), Arizona cottontop (*Digitaria californica*), tobosagrass (*Pleuraphis mutica*), slim tridens (*Tridens muticus*), and lesser amounts of sand dropseed (*Sporobolus cryptandrus*) and Reverchon bristlegrass (*Setaria reverchonii*). A good variety of forbs exist but the amount varies greatly from year to year depending on moisture. The more commonly found forbs are dotted gayfeather (*Liatris punctata*), white prairie clover (*Dalea albiflora*), gaura spp. (Gaura spp.), bush sunflower (*Simsia calva*), orange zexmania (Zexmania hispida), trailing ratany (*Krameria lanceolata*), Oenothera spp. (Oenothera spp.), and rock daisy (Perityle spp.). The few shrubs that may be found on this site were feather dalea (Dalea Formosa), catclaw acacia (*Acacia greggii*), and vine ephedra (*Ephedra antisyphilitica*).

Fire plays a role in the ecology of this site as well as most other high plains sites. The general role of fire is to sustain the natural grassland and suppress shrubby species. Fire has helped to keep a balance between the grasses, forbs and shrubs. However, in the

shortgrass region, fire is probably secondary to climate in promoting the historic vegetative state. A drier climate (<20 inches annual precipitation) creates a situation where the subsoil is dry more often than it is wet. Plant roots grow in response to moisture and this dryer climate favors shortgrasses with fibrous root systems or short rhizomatous grasses. Annual forbs are stimulated by fire and diversity is generally increased. Heavy grazing after a fire can have a negative effect if conditions are dry and remain so for an extended period.

Periodic grazing and trampling by migrating herds of bison and elk as well as resident herds of pronghorn antelope occurred during drought periods. Bison moved about in large herds over the region somewhat regulated by water sources and fire frequency. However, long rest periods followed once the large herds of bison moved out of the area, allowing the resilient grassland to re-establish and maintain its structure.

Variations in climatic factors, especially the amount and timing of precipitation, greatly influence the productivity of ecological sites and are largely responsible for the fluctuations in the amount of vegetative growth from one season to the next. It is not unusual for fluctuations of greater than 50 percent to occur from one year to another. These types of climatic variation are part of the overall environment in which the reference plant community developed. However, it needs to be pointed out that long-term drought (4 to 6 years of rainfall, 50 percent below the mean) can act in concert with other forces to affect changes in plant communities. For instance, extended drought weakens plants and makes them more susceptible to the effects of overgrazing. Drought conditions coupled with fire can be damaging and need long periods of time to fully recover. Extremely dry summers followed by wet winters can favor cool-season annual grasses at the expense of perennial warm-season species. A well-adapted, healthy community could better withstand such rigors of drought. However, even the reference community can experience damage that would result in some departure from the former stable state. Usually, the departure would be temporary.

When domestic livestock were brought to the plains in the 1870's, it was largely an open range situation. By 1890, however, most of the area had been fenced and livestock were confined to these areas continually. Not understanding the limits of rangeland productivity, European settlers almost universally overstocked the area with domesticated livestock. As overgrazing occurred on this site, there was a reduction of the less grazing resistant midgrass species, a decline in mulch and organic matter, and consequently a reduction in intensity and frequency of fires. The shift in plant cover to less palatable shortgrass species and the decline in soil cover, favors woody plant encroachment.

With abusive grazing, no fire, no brush management and/or pest management this site will transition to the Shortgrass/Shrub Community (1.2). As livestock and wildlife numbers increase and grazing use exceeds a plants ability to sustain defoliation, the more palatable and generally more productive species decline in stature, productivity and density. The tendency of this site is to become a shortgrass dominant site if long-term grazing abuse occurs. This will lead to a decline in sideoats grama, blue grama and other

palatable grass species. Black grama, dropseeds and tobosa will increase with an increase of hairy tridens (*Erioneuron pilosum*), and burrograss (*Scleropogon brevifolius*). Catclaw acacia will increase along with an invasion of broom snakeweed (*Gutierrezia sarothrae*), and mesquite (*Prosopis glandulosa*). The production of vegetation has shifted from mostly herbaceous vegetation to increasing amounts of woody shrubs. Herbaceous vegetation is still the largest production in this state. Nutrient cycling, the water cycle, watershed protection and biological functions have changed somewhat. This state can transition back to reference with good management practices such as prescribed grazing, brush management and pest management. In this state it is unlikely that prescribed burning could be used due to the limited fuel load and poor continuity to carry a fire.

If long-term, abusive grazing continues with no fire or any form of brush and pest management, a major threshold will be crossed to the Shrub/Shortgrass Community (2.1). In this state, mesquite, broom snakeweed and catclaw acacia will dominate the site. The typical shortgrass species will be perennial threeawns, hairy tridens and other invading low quality short grasses. Bare areas will increase with annuals filling the voids.

The loss of herbaceous cover and increased bare soil encourages accelerated erosion. Nutrient cycling, the water cycle, watershed protection and biological functions have been severely reduced.

The plant community is so degraded that it cannot reverse retrogression without extensive energy and management inputs. Prescribed grazing with rest periods during the growing season, re-seeding with adapted native grass species, chemical and/or mechanical brush management, and some form of pest management will be required to return this state back to reference. With the reduced amounts of grass fuel, poor continuity and increased bare soil, prescribed burning will not be an option in this state.

NOTE: Rangeland Health Reference Worksheets have been posted for this site on the Texas NRCS website (www.tx.nrcs.usda.gov) in Section II of the eFOTG under (F) Ecological Site Descriptions.

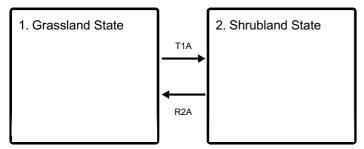
STATE AND TRANSITIONAL PATHWAYS: (DIAGRAM)

#### Narrative:

The following diagram suggests some pathways that the vegetation on this site might take. There may be other states not shown on the diagram. This information is intended to show what might happen in a given set of circumstances; it does not mean that this would happen the same way in every instance. Local professional guidance should always be sought before pursuing a treatment scenario.

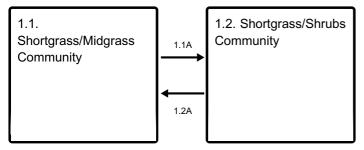
#### State and transition model

#### **Ecosystem states**

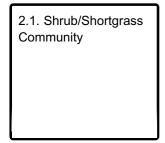


- **T1A** Absence of disturbance and natural regeneration over time, may be coupled with excessive grazing pressure
- **R2A** Adequate rest from defoliation and removal of woody canopy, followed by reintroduction of historic disturbance regimes

#### State 1 submodel, plant communities



#### State 2 submodel, plant communities



### State 1 Grassland State

The Reference Plant Community was a Shortgrass/Midgrass Community (1.1). Few if any tallgrass species will be found. Grass species account for 85 percent of the total site production. A wide variety of forbs are produced on this site producing 15 percent of the total annual production and only trace amounts of woody shrubs will be found. With continuous heavy grazing, no fire, no brush management and/or pest management this site will transition to the Shortgrass/Shrub Community (1.2). As livestock and wildlife numbers increase and grazing use exceeds a plants ability to sustain defoliation, the more palatable and generally more productive species decline in stature, productivity and density. The tendency of this site is to become a shortgrass dominant site if long-term grazing abuse occurs. This will lead to a decline in sideoats grama, blue grama and other palatable grass species.

#### **Dominant plant species**

- black grama (Bouteloua eriopoda), grass
- blue grama (Bouteloua gracilis), grass

## **Community 1.1 Shortgrass/Midgrass Community**



Figure 8. 1.1 Shortgrass/Midgrass Community

The Reference Plant Community of the Very Shallow Ecological Site is a Shortgrass/Midgrass Plant Community (1.1). Few if any tallgrass species will be found. Grass species account for 85 percent of the total site production. A wide variety of forbs are produced on this site producing 15 percent of the total annual production. Only trace amounts of woody shrubs will be found. The dominant shortgrass species are black grama and blue grama. Sideoats grama is the primary midgrass species. As overgrazing occurs on this site, there will be a reduction of the less grazing resistant midgrass species, a decline in mulch and organic matter, and consequently a reduction in intensity and frequency of fires. The shift in plant cover to less palatable shortgrass species and the decline in soil cover, favors woody plant encroachment. Proper grazing use, periodic brush and pest management and prescribed burning are required to maintain this community phase.

Table 5. Annual production by plant type

Plant Type	Low (Lb/Acre)	Representative Value (Lb/Acre)	High (Lb/Acre)
Grass/Grasslike	285	618	950
Forb	15	32	50
Shrub/Vine	0	0	1
Tree	0	0	0
Microbiotic Crusts	0	0	0
Total	300	650	1001

Figure 10. Plant community growth curve (percent production by month). TX1251, Warm-season bunchgrasses w/ forbs & shrubs. Warm-season bunchgrasses with forbs and shrubs..

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0	1	3	5	12	16	15	20	18	9	1	0

## **Community 1.2 Shortgrass/Shrubs Community**



Figure 11. 1.2 Shortgrass/Shrubs Community

With continuous heavy grazing, no fire, no brush management and/or pest management this site will transition from to the Shortgrass/Shrub Community (1.2). As livestock and wildlife numbers increase and grazing use exceeds a plants ability to sustain defoliation, the more palatable and generally more productive species decline in stature, productivity and density. The tendency of this site is to become a shortgrass dominant site if long-term grazing abuse occurs. This will lead to a decline in sideoats grama, blue grama and other palatable grass species. Black grama, dropseeds and tobosa will increase with an invasion of hairy tridens, and burrograss. Catclaw acacia will increase along with an invasion of

broom snakeweed, and mesquite. The production of vegetation has shifted from mostly herbaceous vegetation to increasing amounts of woody shrubs. Herbaceous vegetation is still the largest production in this state. This state can shift back to the reference community with good management practices such as prescribed grazing, brush management and pest management. In this state it is unlikely that prescribed burning could be used due to the limited fuel load and poor continuity to carry a fire.

Table 6. Annual production by plant type

Plant Type	Low (Lb/Acre)	Representative Value (Lb/Acre)	High (Lb/Acre)
Grass/Grasslike	200	350	500
Shrub/Vine	200	300	400
Forb	40	70	100
Microbiotic Crusts	0	0	0
Tree	0	0	0
Total	440	720	1000

Figure 13. Plant community growth curve (percent production by month). TX1252, Shortgrass Dominant/Invading Shrub Community. Warm-season shortgrasses with increasing shrubs and forbs..

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0	1	3	5	12	16	15	20	18	9	1	0

#### Pathway 1.1A Community 1.1 to 1.2



With continuous heavy grazing, no fire, no brush management and/or pest management this site will transition to the Shortgrass/Shrub Community (1.2). As livestock and wildlife numbers increase and grazing use exceeds a plants ability to sustain defoliation, the more palatable and generally more productive species decline in stature, productivity and density.

## Pathway 1.2A Community 1.2 to 1.1



This state can transition back the reference community with good management practices such as prescribed grazing, brush management and pest management.

#### **Conservation practices**

Brush Management
Integrated Pest Management (IPM)
Prescribed Grazing

## State 2 Shrubland State

A major threshold will be crossed from the Grassland State (1.0) to the Shrubland State (2.0). In this state, mesquite, shrubs such as broom snakeweed and catclaw acacia will dominate the site. The typical shortgrass species will be perennial threeawns, hairy tridens and other invading low quality short grasses. Bare areas will increase with annuals filling the voids. The loss of herbaceous cover and increased bare soil encourages accelerated erosion, especially on sites with steeper slopes.

#### **Dominant plant species**

- broom snakeweed (Gutierrezia sarothrae), shrub
- catclaw acacia (Acacia greggii), shrub
- honey mesquite (Prosopis glandulosa), shrub

## **Community 2.1 Shrub/Shortgrass Community**



Figure 14. 2.1 Shrub/Shortgrass Community

If long-term, heavy grazing continues with no fire or any form of brush and pest management, a major threshold will be crossed to the Shrub/Shortgrass Community (2.1). In this state, mesquite, broom snakeweed and catclaw acacia will dominate the site. The typical shortgrass species will be perennial threeawns, hairy tridens and other invading low quality short grasses. Bare areas will increase with annuals filling the voids. The loss of herbaceous cover and increased bare soil encourages accelerated erosion, especially on sites with steeper slopes. Nutrient cycling, the water cycle, watershed protection and biological functions have been severely reduced. The plant community is so degraded that it cannot reverse retrogression without extensive energy and management inputs. Prescribed grazing with rest periods during the growing season, re-seeding with adapted native grass species, chemical and/or mechanical brush management, and some form of pest management will be required to return this state back to the reference state. With the reduced amounts of grass fuel, poor continuity and increased bare soil, prescribed burning will not be an option in this state.

Table 7. Annual production by plant type

Plant Type	Low (Lb/Acre)	Representative Value (Lb/Acre)	High (Lb/Acre)
Shrub/Vine	400	500	600
Grass/Grasslike	100	200	300
Forb	20	40	60
Microbiotic Crusts	0	0	0
Tree	0	0	0
Total	520	740	960

Figure 16. Plant community growth curve (percent production by month). TX1254, Shrub/Shortgrass/Annuals Community. Spring and fall growth of shortgrasses, annuals, and shrubs..

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0	1	4	6	10	16	15	20	15	12	1	0

## Transition T1A State 1 to 2

If long-term, heavy grazing continues with no fire or any form of brush and pest management, a major threshold will be crossed to the Shrub/Shortgrass Community (2.1). In this state, mesquite, broom snakeweed and catclaw acacia will dominate the site. Bare areas will increase with annuals filling the voids.

### Restoration pathway R2A State 2 to 1

Prescribed grazing with rest periods during the growing season, re-seeding with adapted native grass species, chemical and/or mechanical brush management, and some form of pest management will be required to return this state back the reference. With the reduced amounts of grass fuel, poor continuity and increased bare soil, prescribed burning will not be an option in this state.

#### **Conservation practices**

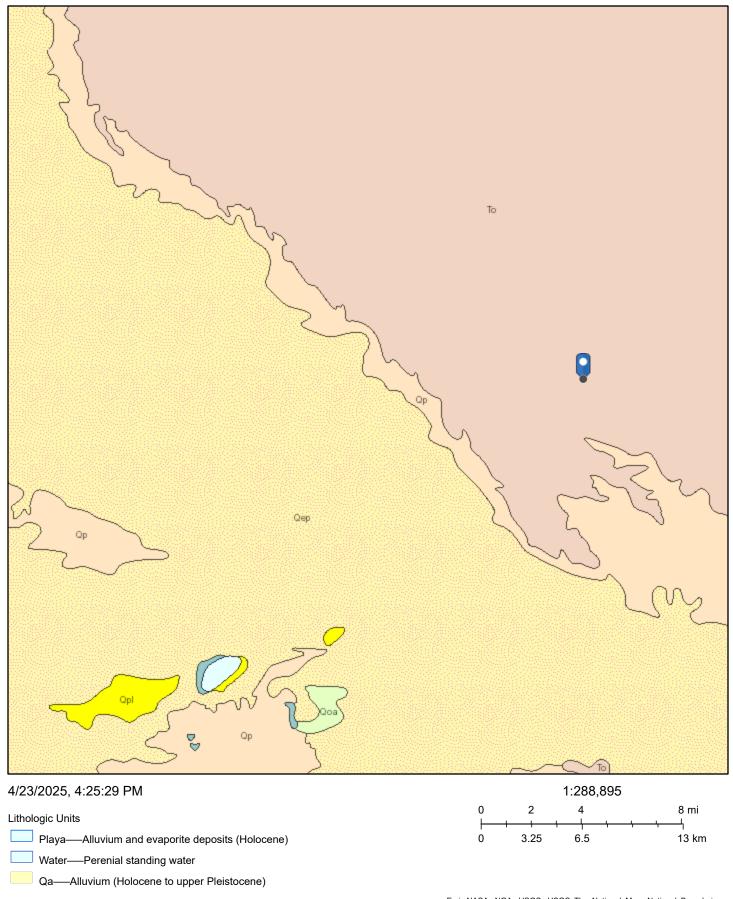
Brush Management
Range Planting
Integrated Pest Management (IPM)
Prescribed Grazing

#### Additional community tables

Table 8. Community 1.1 plant community composition

Group	Common Name	Symbol	Scientific Name	Annual Production (Lb/Acre)	Foliar Cover (%)
Grass	/Grasslike	•			
1	Shortgrasses			105–350	
	black grama	BOER4	Bouteloua eriopoda	75–250	_
	blue grama	BOGR2	Bouteloua gracilis	30–100	_
2	Midgrasses	•		135–450	
	sideoats grama	BOCU	Bouteloua curtipendula	30–100	_
	little bluestem	SCSC	Schizachyrium scoparium	30–100	-

#### B Lee State #006 Geologic Map



Esri, NASA, NGA, USGS, USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS Global Ecosystems; U.S. Census Bureau TIGER/Line data; USFS Road data;

Incident Number: NAPP2510568312



#### **Release Assessment and Closure**

B Lee State #006

Unit L, Section 07, Township 18 South, Range 35 East

API: 30-025-39673

**County: Lea** 

Vertex File Number: 25A-01934

#### **Prepared for:**

**Mack Energy Corporation** 

#### Prepared by:

Vertex Resource Services Inc.

#### Date:

July 2025

Release Assessment and Closure
B Lee State #006
Unit L, Section 07, Township 18 South, Range 35

API: 30-025-39673 County: Lea

Prepared for:

**Mack Energy Corporation** 

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ENVIRONMENTAL TECHNICIAN, REPORTING

July 10, 2025

Date

Sally Carttar
Sally Carttar, BA

PROJECT MANAGER, REPORT REVIEW

July 11, 2025

Date

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#### 1.0 Introduction

Mack Energy Corporation (Mack) retained Vertex Resource Services Inc. (Vertex) to conduct a Release Assessment and Closure for a crude oil release that occurred on April 15, 2025, at B Lee State #006 API 30-025-39673 (hereafter referred to as the "site"). Mack submitted an initial C-141 Release Notification (Appendix A) to New Mexico Oil Conservation Division (NMOCD) District 1 on April 15, 2025. Incident ID number nAPP2510568312 was assigned to this incident.

This report provides a description of the release assessment and remediation activities associated with the site. The information presented demonstrates that closure criteria established in Table I of 19.15.29.12 of the *New Mexico Administrative Code* (NMAC; New Mexico Oil Conservation Division, 2018) related to NMOCD has been met and all applicable regulations are being followed. This document is intended to serve as a final report to obtain approval from NMOCD for closure of this release, with the understanding that restoration of the release site will be completed following remediation activities as per NMAC 19.15.29.13.

#### 2.0 Incident Description

The release occurred April 15, 2025, due to a corroded production flowline. The incident was reported on April 15, 2025, and involved the release of approximately 15 barrels (bbl) of crude oil off the pad site. Approximately 2 bbl of free fluid was removed during initial clean-up. Additional details relevant to the release are presented in the C-141 Report.

#### 3.0 Site Characteristics

The site is located approximately 13.3 miles southwest of Lovington, New Mexico. The legal location for the site is Unit L, Section 07, Township 18 South, Range 35 East in Lea County, New Mexico. The release area is located on State property. An aerial photograph and site schematic are presented on Figure 1.

The location is typical of oil and gas exploration and production sites in the Permian Basin and is currently used for oil and gas production and storage. The following sections specifically describe the release area in the pasture and in proximity to the lease road right-of-way east of the pad (Figure 1).

The surrounding landscape is associated with playa rims, plains with elevations ranging between 2,500 and 4,800 feet. The climate is semiarid with average annual precipitation ranging between 14 and 16 inches. Using information from the United States Department of Agriculture, the dominant vegetation was determined to be grasses with woody shrubs. Grasses with shrubs and half-shrubs dominate the historic plant community (United States Department of Agriculture, Natural Resources Conservation Service, 2025). Limited to no vegetation is allowed to grow on the compacted production pad, right-of-way and access road.

The surface geology at the site primarily comprises To – Ogalla Formation (Lower Pliocene to Middle Miocene), and is characterized as alluvial and eolian deposits, and petrocalcic soils of the southern High Plains (New Mexico Bureau of Geology and Mineral Resources, 2025). The soil at the site is characterized as Ko-Kimbrough gravelly loam, dry, 0 to 3 percent slopes (United States Department of Agriculture, Natural Resources Conservation Service, 2025). Additional soil characteristics include a drainage class of well drained with a runoff class of very high. The karst geology potential for the site is low.

#### 4.0 Closure Criteria Determination

The nearest active well to the site is used for secondary recovery of oil and is located 327 feet to the south. There is no surface water present at the site. The nearest significant watercourse, as defined in Subsection P of 19.15.17.7 NMAC, is an intermittent stream located approximately 367 feet south of the site (United States Fish and Wildlife Service, 2025). At the site, there are no continuously flowing watercourses or significant watercourses, lakebeds, sinkholes, playa lakes or other critical water or community features as outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC

The nearest depth to groundwater reference to the site is United States Geological Survey (USGS) monitoring well located 829 feet to the southwest. The most recent depth to groundwater measurement at USGS well 324558103304001 was 113 feet below ground surface (bgs) on February 15, 1996 (United States Geological Survey, 2025). Information pertaining to the depth to ground water determination is included in Appendix B.

	Closure Criteria Determination			
	e: B Lee State #006	lv	V 0505000	
-	dinates: 32.7614,-103.5028	X: 640244	Y: 3625828	
Site Speci	fic Conditions	Value	Unit	
	Depth to Groundwater (nearest reference)	113	feet	
1	Distance between release and nearest DTGW reference	829	feet	
	Data Caraca DTCM of caraca	0.16	miles	
	Date of nearest DTGW reference measurement	Februar	y 15, 1996	
2	Within 300 feet of any continuously flowing watercourse	367	feet	
	or any other significant watercourse			
3	Within 200 feet of any lakebed, sinkhole or playa lake	1,018	feet	
	(measured from the ordinary high-water mark)			
4	Within 300 feet from an occupied residence, school,	24,117	feet	
	hospital, institution or church			
	i) Within 500 feet of a spring or a private, domestic fresh	4.600	<b>C</b> 1	
5	water well used by less than five households for	4,688	feet	
	domestic or stock watering purposes, <b>or</b>	227	foot	
	ii) Within 1000 feet of any fresh water well or spring	327	feet	
	Within incorporated municipal boundaries or within a			
-	defined municipal fresh water field covered under a		() ( ( ) ( )	
6	municipal ordinance adopted pursuant to Section 3-27-3	No	(Y/N)	
	NMSA 1978 as amended, unless the municipality			
	specifically approves			
7	Within 300 feet of a wetland	4,007	feet	
•	Within the area overlying a subsurface mine	No	(Y/N)	
8	Distance between release and nearest registered mine	114,985	feet	
			Critical	
	1471		High	
9	Within an unstable area (Karst Map)	Low	Medium	
			Low	
	Distance between release and nearest High Karst	130,000	feet	
	Within a 100-year Floodplain	Undetermined	year	
10	Distance between release and nearest FEMA Zone A (100-	140 720	foot	
	year Floodplain)	140,730	feet	
11	Soil Type	Gravelly loam, loan	n, cemented material	
12	Ecological Classification	Very	shallow	
13	Geology	· ·	eolian deposits	
			<50'	
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	<50'	51-100'	
			>100'	

The depth to groundwater reference exceeded 25 years from last sampling event; therefore, the closure criteria for remediation and reclamation of the site was determined to be associated with the strictest constituent concentration limits as presented in Table 2.

Table 2. Closure Criteria for Soils Impacted by a Release						
Minimum depth below any point within the horizontal boundary of the release to groundwater less than 10,000 mg/l TDS Constituent Limit						
,	Chloride	600 mg/kg				
< 50 feet	TPH (GRO+DRO+MRO)	100 mg/kg				
< 50 feet	BTEX	50 mg/kg				
	Benzene	10 mg/kg				

TDS - total dissolved solids

TPH – total petroleum hydrocarbons, GRO – gas range organics, DRO – diesel range organics, MRO – motor oil range organics

BTEX – benzene, toluene, ethylbenzene and xylenes

#### 5.0 Remedial Actions Taken

Inspection and site characterization of the release adjacent to the lease road was completed by Vertex between April 15 and June 17, 2025, including vertical and horizontal delineation. The release area on date of release was determined to be approximately 1,418 square feet. The total area of impact was determined to be approximately 3,683 square feet. Daily Field Reports associated with the characterization are included in Appendix C. Characterization sample locations and approximate release and impact areas are presented on Figure 1. Characterization laboratory results are summarized in Table 3. Only characterization samples that were submitted for laboratory analysis are represented on Figure 1 and in Table 3.

Remediation efforts began on June 5, 2025, and were finalized on July 2, 2025. Vertex personnel supervised the excavation of impacted soils. Field screening was completed on a total of 41 sample locations and consisted of analysis using a Dexsil Petroflag using EPA SW-846 Method 9074 (extractable hydrocarbons) and Silver Nitrate Titration (chloride). Field screening results were used to identify areas requiring further remediation. Soils were removed to depths of 3 to 5 feet bgs. The material excavated consisted of limestone below the surface topsoil. The hard material resulted in variable depths at the base of the excavation. The excavation depths presented on Figure 2 and in Table 4 are the best approximations for those respective areas. Impacted soil was transported by a licensed waste hauler and disposed of at an approved waste management facility. Daily Field Reports documenting various phases of the remediation are presented in Appendix C.

Notifications that confirmation samples were being collected were provided to the NMOCD at least 48 hours prior to the respective sampling events. Confirmatory composite samples were collected from the base and walls of the excavation in increments no greater than 200 square feet. A total of 33 excavation base samples and eight excavation wall samples were collected for laboratory analysis following NMOCD soil sampling procedures. Confirmation samples were collected from different portions of the excavation over multiple days, resulting in a discontinuous numbering scheme. Samples were submitted to Eurofins Environment Testing Laboratory in Albuquerque, New Mexico, under

chain-of-custody protocols and analyzed for BTEX (EPA Method 8021B), total petroleum hydrocarbons (GRO, DRO, MRO – EPA Method 8015D) and total chloride (EPA Method 300.0). Confirmation sample locations and corresponding laboratory results are presented on Figure 2 and in Table 4, respectively. Laboratory data reports are included in Appendix D.

The original laboratory results for excavation base samples BS25-04, BS25-09, and BS25-15 exceeded closure thresholds for chloride or TPH. The excavator was used to scrape the areas in question and increase the respective depths as much as 0.5 feet bgs to present fresh surfaces for collection of confirmation samples. Laboratory results for confirmation samples BS25-04, BS25-09, and BS25-15 re-collected at approximately 3.5 feet bgs were below NMOCD strictest criteria for chloride and TPH. All confirmation samples collected and submitted for laboratory testing are presented on Figure 2 and in Table 4.

The total areas of excavation bases and walls were approximately 6,291 and 1,330 square feet, respectively. Upon completion of remedial actions, approximately 6,291 square feet and 772 cubic yards of surface material were remediated to closure criteria. All final confirmation samples collected and analyzed were below closure criteria for the site.

#### **6.0 Closure Request**

Vertex recommends no additional remediation action to address the release at of B Lee State #006. Laboratory analyses of the final confirmatory samples showed constituent of concern concentration levels below NMOCD reclamation closure criteria for areas where depth to groundwater is less than 50 feet bgs as shown in Table 2. There are no anticipated risks to human, ecological or hydrological receptors associated with the release sites. The excavation was backfilled with non-waste-containing, uncontaminated, earthen material, sourced locally, and placed to meet the site's existing grade to prevent ponding of water and erosion.

Mach Energy Corporation requests that this incident (nAPP2510568312) be closed as all closure requirements set forth in Subsection E of 19.15.29.12 NMAC have been met. Mack certifies that all information in this report and the attachments is correct, and that they have complied with all applicable closure requirements and conditions specified in Division rules and directives to meet NMOCD requirements to obtain closure on the April 15, 2025, release east of B Lee State #006.

Should you have any questions or concerns, please do not hesitate to contact Sally Carttar at 575.361.3561 or scarttar@vertexresource.com

#### 7.0 References

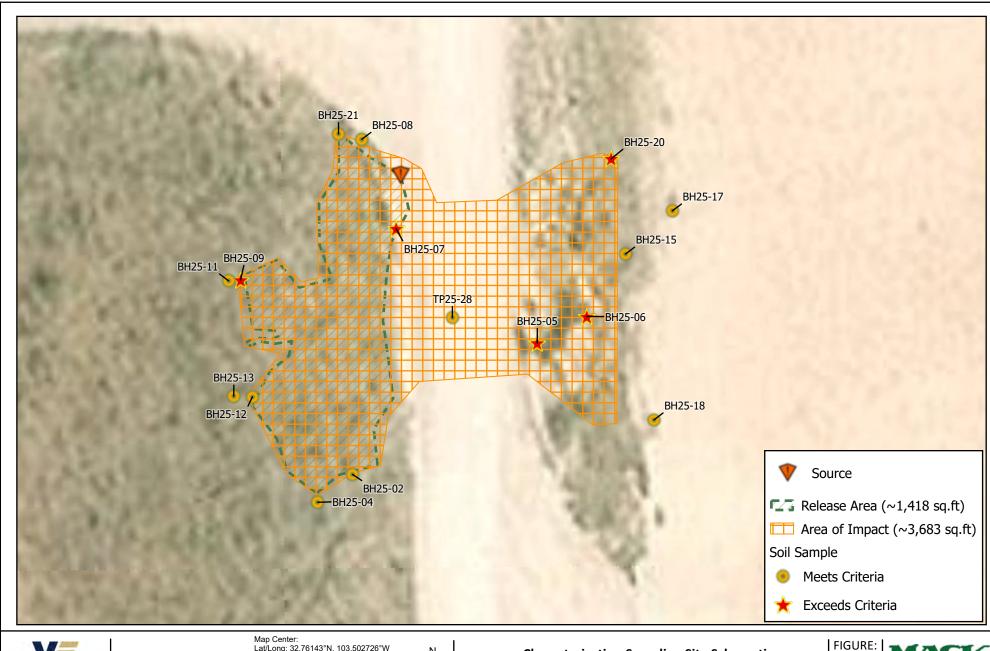
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#### 8.0 Limitations

This report has been prepared for the sole benefit of Mack Energy Corporation. This document may not be used by any other person or entity, with the exception of the New Mexico Oil Conservation Division and the New Mexico State Land Office, without the express written consent of Vertex Resource Services Inc. (Vertex) and Mack Energy Corporation. Any use of this report by a third party, or any reliance on decisions made based on it, or damages suffered as a result of the use of this report are the sole responsibility of the user.

The information and conclusions contained in this report are based upon work undertaken by trained professional and technical staff in accordance with generally accepted scientific practices current at the time the work was performed. The conclusions and recommendations presented represent the best judgement of Vertex based on the data collected during the assessment. Due to the nature of the assessment and the data available, Vertex cannot warrant against undiscovered environmental liabilities. Conclusions and recommendations presented in this report should not be considered legal advice.

#### **FIGURES**





Map Center: Lat/Long: 32.76143°N, 103.502726°W

Date: Jul 08/25

Ν

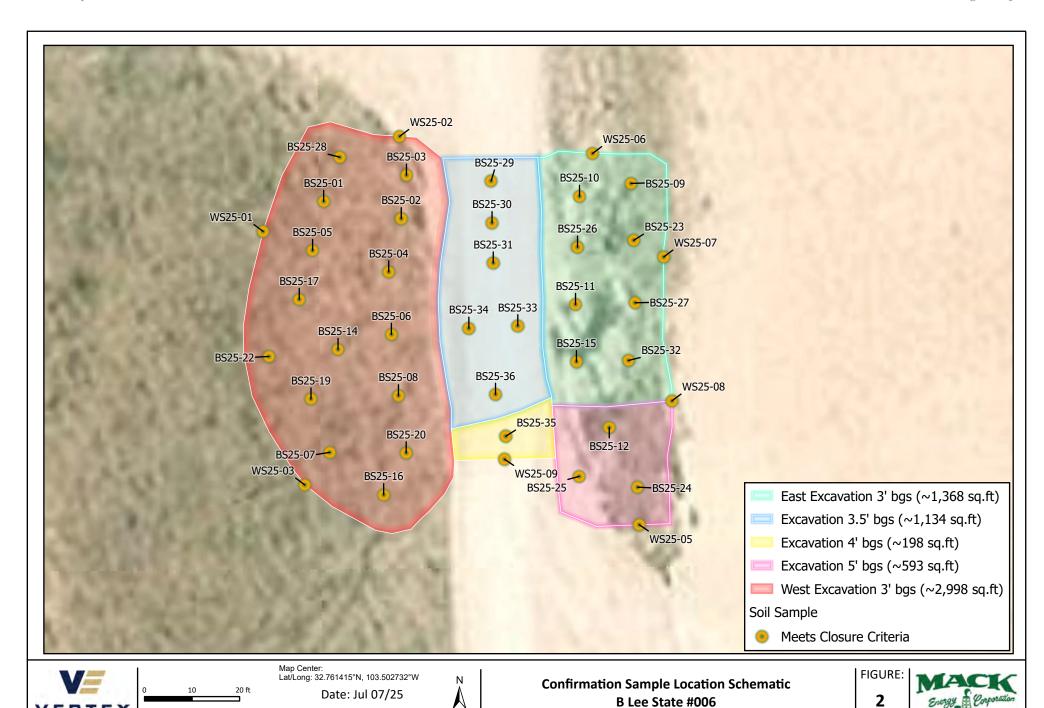
**Characterization Sampling Site Schematic** B Lee State #006

1



Geospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for

Note: Georeferenced image from Esri, 2025. Site features from GPS, Vertex, 2025.



Geospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for naccuracies. This figure is intended for reference use only and is not certified for legal, survey or engineering purposes.

Note: Georeferenced image from Esri, 2025. Site features from GPS, Vertex, 2025.

#### **TABLES**

**Client Name: Mack Energy Corporation** 

Site Name: B Lee State #006

NMOCD Tracking #: NAPP2510568312

Project #: 25A-01934

Lab Reports: 885-24054-1, 885-24056-1, 885-24681, 885-24757-1, and 885-25054-1, 885-27208-1, and 885-26495-1

Table 3. Initial Characterization Sample Laboratory Results										
	Sample Desc	cription			Petrole	eum Hydrod	arbons			
		Volatile Extractable					Inorganic			
Sample ID	Depth (ft)	Sample Date	Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	Chloride Concentration
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg) lwater <50	(mg/kg)	(mg/kg)	(mg/kg)
	0	April 28, 2025	ND	ND	ND	ND	ND	ND	ND	ND
BH25-02	1	April 28, 2025	ND	ND	ND	ND	ND	ND	ND	ND
	0	April 28, 2025	ND	ND	ND	ND	ND	ND	ND	ND
BH25-04	1	April 28, 2025	ND	ND	ND	ND	ND	ND	ND	ND
DU 05	0	April 28, 2025	ND	ND	ND	29	200	29	229	76
BH25-05	1	April 28, 2025	ND	ND	ND	20	110	20	130	84
BH25-06	0	April 29, 2025	ND	ND	ND	87	240	87	327	ND
BH25-00	1	April 29, 2025	ND	ND	ND	32	ND	32	32	ND
	2	June 8, 2025	ND	ND	ND	ND	ND	ND	ND	1,200
BH25-07	4	June 9, 2025	ND	ND	ND	ND	ND	ND	ND	610
	4.5	June 17, 2025	ND	ND	ND	ND	ND	ND	ND	ND
BH25-08	1	May 8, 2025	ND	ND	ND	ND	ND	ND	ND	ND
BH25-09	0.5	May 8, 2025	ND	ND	ND	ND	ND	ND	ND	810
BH25-11	1	May 8, 2025	ND	ND	ND	ND	ND	ND	ND	ND
BH25-12	1	May 8, 2025	ND	ND	ND	12	ND	12	12	78
BH25-13	0	May 9, 2025	ND	ND	ND	ND	59	ND	59	ND
D1123-13	1	May 9, 2025	ND	ND	ND	ND	ND	ND	ND	ND
BH25-15	1	May 9, 2025	ND	ND	ND	ND	ND	ND	ND	210
BH25-17	0.5	May 9, 2025	ND	ND	ND	ND	ND	ND	ND	62
BH25-18	1	May 13,2025	ND	ND	ND	ND	ND	ND	ND	ND
BH25-20	0.5	May 13,2025	ND	ND	ND	ND	ND	ND	ND	830
BH25-21	1	May 13,2025	ND	ND	ND	ND	ND	ND	ND	ND
	0	June 12, 2025	ND	ND	ND	ND	ND	ND	ND	230
TP25-28	2	June 12, 2025	ND	ND	ND	ND	ND	ND	ND	390
	4	June 12, 2025	ND	ND	ND	ND	ND	ND	ND	ND

<sup>&</sup>quot;ND" Not Detected at the Reporting Limit

Bold and grey shaded indicates exceedance outside of NMOCD Remediation Closure Criteria Bold and green shaded indicates exceedance outside of NMOCD Reclamation Closure Criteria



<sup>&</sup>quot;-" indicates not analyzed/assessed

**Client Name: Mack Energy Corporation** 

Site Name: B Lee State #006

NMOCD Tracking #: NAPP2510568312

Project #: 25A-01934

Lab Reports: 885-26495-1, 885-26814-1, 885-26816-1, 885-27206-1, 885-27207-1, 885-27453-1, 885-27455-1, 885-27456-1, and 885-28074-1

	and 885-28074-1									
	Table 4. Confirmation Sample Laboratory Results									
	Sample Desc	cription			Petrole	eum Hydrod				
			Vol	atile			Extractable	1		Inorganic
Sample ID	Depth (ft)	Sample Date	Benzene (mg/kg)	(Bak) BTEX (Total)	(GRO) (GRO)	Diesel Range Organics (DRO)	) Motor Oil Range Organics 자 (MRO)	(GRO + DRO)	ত্ত্ৰ Total Petroleum স্থ্ৰ Hydrocarbons (TPH)	B % Chloride Concentration ®
					Deptl	h to Ground	lwater <50 f	feet bgs		
BS25-01	3	June 9, 2025	ND	ND	ND	ND	ND	ND	ND	62
BS25-02	3	June 9, 2025	ND	ND	ND	ND	ND	ND	ND	210
BS25-03	3	June 12, 2025	ND	ND	ND	19	ND	19	19	110
BS25-04	3	<del>June 10, 2025</del>	ND	ND	ND	ND	ND	ND	ND	680
B323-04	3.5	June 19, 2025	ND	ND	ND	ND	ND	ND	ND	320
BS25-05	3	June 12, 2025	ND	ND	ND	ND	ND	ND	ND	190
BS25-06	3	June 10, 2025	ND	ND	ND	36	ND	36	36	380
BS25-07	3	June 10, 2025	ND	ND	ND	24	ND	24	24	280
BS25-08	3	June 10, 2025	ND	ND	ND	33	ND	33	33	440
BS25-09	3	<del>June 13, 2025</del>	ND	ND	ND	<del>38</del>	<del>86</del>	<del>38</del>	<del>124</del>	<del>220</del>
B323 03	3.5	June 18, 2025	ND	ND	ND	ND	ND	ND	ND	430
BS25-10	3	June 17, 2025	ND	ND	ND	ND	ND	ND	ND	510
BS25-11	3	June 17, 2025	ND	ND	ND	16	ND	16	16	550
BS25-12	5	June 17, 2025	ND	ND	ND	24	ND	24	24	390
BS25-14	3	June 12, 2025	ND	ND	ND	27	ND	27	27	190
BS25-15	3	<del>June 17, 2025</del>	ND	NĐ	NĐ	<del>52</del>	<del>84</del>	<del>52</del>	<del>136</del>	<del>580</del>
	3.5	July 2, 2025	ND	ND	ND	ND	ND	ND	ND	ND
BS25-16	3	June 12, 2025	ND	ND	ND	26	ND	26	26	180
BS25-17	3	June 12, 2025	ND	ND	ND	30	ND	30	30	360
BS25-19	3	June 12, 2025	ND	ND	ND	ND	ND	ND	ND	280
BS25-20	3	June 12, 2025	ND	ND	ND	ND	ND	ND	ND	150
BS25-22	3	June 12, 2025	ND	ND	ND	10	ND	10	10	200
BS25-23	3	June 17, 2023	ND	ND	ND	ND	ND	ND	ND	460
BS25-24	5	June 18, 2025	ND	ND	ND	ND	ND	ND	ND	180
BS25-25	5	June 17, 2025	ND	ND	ND	13	ND	13	13	180
BS25-26	3	June 18, 2025	ND	ND	ND	ND	ND	ND	ND	500
BS25-27	3	June 17, 2025	ND	ND	ND	ND	ND	ND	ND	390
BS25-28	3	June 12, 2025	ND	ND	ND	ND	ND	ND	ND	ND
BS25-29	3.5	June 23, 2025	ND	ND	ND	39	ND	39	39	66
BS25-30	3.5	June 20, 2025	ND	ND	ND	30	ND	30	30	340
BS25-31	3.5	June 20, 2025	ND	ND	ND	38	ND	38	38	230
BS25-32	3	June 17, 2025	ND	ND	ND	26	54	26	80	440
BS25-33	3.5	June 20, 2025	ND	ND	ND	ND	ND	ND	ND	430
BS25-34	3.5	June 20,2025	ND	ND	ND	ND	ND	ND	ND	360
BS25-35	4	June 23, 2025	ND	ND	ND	ND	ND	ND	ND	95
BS25-36	3.5	June 23, 2025	ND	ND	ND	30	ND	30	30	200



**Client Name: Mack Energy Corporation** 

Site Name: B Lee State #006

NMOCD Tracking #: NAPP2510568312

Project #: 25A-01934

Lab Reports: 885-26495-1, 885-26814-1, 885-26816-1, 885-27206-1, 885-27207-1, 885-27453-1, 885-27455-1, 885-27456-1,

and 885-28074-1

Table 4. Confirmation Sample Laboratory Results										
	Sample Description Petroleum Hydrocarbons									
			Vol	atile			Extractable	1		Inorganic
Sample ID	Depth (ft)	Sample Date	Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	Chloride Concentration
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
			Depth to Groundwater <50 feet bgs							
WS25-01	0-3	June 9, 2025	ND	ND	ND	ND	ND	ND	ND	ND
WS25-02	0-3	June 9, 2025	ND	ND	ND	ND	ND	ND	ND	62
WS25-03	0-3	June 12, 2025	ND	ND	ND	ND	ND	ND	ND	100
WS25-05	0-5	June 17, 2025	ND	ND	ND	ND	ND	ND	ND	320
WS25-06	0-3	June 13, 2025	ND	ND	ND	ND	ND	ND	ND	ND
WS25-07	0-3	June 19, 2025	ND	ND	ND	ND	ND	ND	ND	67
WS25-08	3-5	July 2, 2025	ND	ND	ND	ND	ND	ND	ND	ND
WS25-09	0-4	July 2, 2025	ND	ND	ND	ND	ND	ND	ND	ND

<sup>&</sup>quot;ND" Not Detected at the Reporting Limit

Bold and grey shaded indicates exceedance outside of NMOCD Remediation Closure Criteria

Bold and green shaded indicates exceedance outside of NMOCD Reclamation Closure Criteria

Strike through indicates the excavation depth was increased and the soil represented by the sample was removed



<sup>&</sup>quot;-" indicates not analyzed/assessed

#### **APPENDIX A - NMOCD C-141 Report**

Sante Fe Main Office Phone: (505) 476-3441 General Information

Phone: (505) 629-6116
Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Action 452932

#### **QUESTIONS**

Operator:	OGRID:
MACK ENERGY CORP	13837
P.O. Box 960	Action Number:
Artesia, NM 882110960	452932
	Action Type:
	[C-141] Initial C-141 (C-141-v-Initial)

#### QUESTIONS

Prerequisites					
Incident ID (n#)	nAPP2510568312				
Incident Name	NAPP2510568312 B LEE STATE #006 @ 30-025-39673				
Incident Type	Oil Release				
Incident Status	Initial C-141 Received				
Incident Well	[30-025-39673] B LEE STATE #006				

Location of Release Source					
Please answer all the questions in this group.					
Site Name	B Lee State #006				
Date Release Discovered	04/15/2025				
Surface Owner	State				

Incident Details					
Please answer all the questions in this group.					
Incident Type	Oil Release				
Did this release result in a fire or is the result of a fire	No				
Did this release result in any injuries	No				
Has this release reached or does it have a reasonable probability of reaching a watercourse	No				
Has this release endangered or does it have a reasonable probability of endangering public health	No				
Has this release substantially damaged or will it substantially damage property or the environment	No				
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No				

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for	or the volumes provided should be attached to the follow-up C-141 submission.
Crude Oil Released (bbls) Details	Cause: Corrosion   Flow Line - Production   Crude Oil   Released: 15 BBL   Recovered: 2 BBL   Lost: 13 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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

QUESTIONS, Page 2

Action 452932

QUESTIONS (	(continued)
-------------	-------------

Operator: MACK ENERGY CORP	OGRID: 13837		
P.O. Box 960	Action Number:		
Artesia, NM 882110960	452932		
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)		
QUESTIONS			
Nature and Volume of Release (continued)			
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.		
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No		
Reasons why this would be considered a submission for a notification of a major release	Unavailable.		
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	e. gas only) are to be submitted on the C-129 form.		
Initial Response			
The responsible party must undertake the following actions immediately unless they could create a s	afety hazard that would result in injury.		
The source of the release has been stopped	True		
The impacted area has been secured to protect human health and the environment	True		
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	False		
All free liquids and recoverable materials have been removed and managed appropriately	True		
If all the actions described above have not been undertaken, explain why	Release occurred outside of containment.		
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.		
to report and/or file certain release notifications and perform corrective actions for releating the OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required asses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or		
I hereby agree and sign off to the above statement	Name: Sally Carttar Title: Consultant Email: scarttar@vertex.ca Date: 04/21/2025		

What method was used to determine the depth to ground water

Categorize the risk of this well / site being in a karst geology

Did the release impact areas not on an exploration, development, production, or

A 100-year floodplain

storage site

Did this release impact groundwater or surface water

Sante Fe Main Office Phone: (505) 476-3441 General Information

QUESTIONS

Phone: (505) 629-6116
Online Phone Directory
<a href="https://www.emnrd.nm.gov/ocd/contact-us">https://www.emnrd.nm.gov/ocd/contact-us</a>

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

**Santa Fe, NM 87505** 

QUESTIONS, Page 3

Action 452932

QUESTIONS (continued)

Operator:	OGRID:
MACK ENERGY CORP	13837
P.O. Box 960	Action Number:
Artesia, NM 882110960	452932
	Action Type:
	[C-141] Initial C-141 (C-141-v-Initial)

## Site Characterization Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 in feet below ground surface (ft bgs) Not answered.

Not answered.

Not answered

What is the minimum distance, between the closest lateral extents of the release and the following surface areas: A continuously flowing watercourse or any other significant watercourse Not answered Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark) Not answered. An occupied permanent residence, school, hospital, institution, or church Not answered. A spring or a private domestic fresh water well used by less than five households Not answered. for domestic or stock watering purposes Any other fresh water well or spring Not answered. Incorporated municipal boundaries or a defined municipal fresh water well field Not answered. Not answered. A subsurface mine Not answered. An (non-karst) unstable area Not answered.

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	No
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to	

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required

Not answered.

Not answered.

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General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Action 452932

#### **CONDITIONS**

Operator:	OGRID:
MACK ENERGY CORP	13837
P.O. Box 960	Action Number:
Artesia, NM 882110960	452932
	Action Type:
	[C-141] Initial C-141 (C-141-v-Initial)

#### CONDITIONS

Created By		Condition Date
rhamlet	None	5/16/2025

#### **APPENDIX B – Closure Criteria Research Documentation**

#### **APPENDIX C – Daily Field Reports**

#### **Daily Site Visit Report**



4/28/2025 Client: Mack Energy Corporation Inspection Date: B Lee State #006 4/28/2025 11:48 PM Site Location Name: Report Run Date: **Matt Buckles** Client Contact Name: API#: 30-025-39637 575-748-1288 Client Contact Phone #: Project Owner: Unique Project ID Project Reference # Project Manager:

 Summary of Times

 Arrived at Site
 4/28/2025 8:30 AM

 Departed Site
 4/28/2025 3:40 PM

#### **Field Notes**

- **9:11** Start JSA, DFR, DSS, and line sweep the area.
- 9:14 Began mapping with the geode
- **11:05** Very rocky, hitting refusal at 1-1.5ft on our boreholes.
- **14:58** Extend one call to east to get a clean sample
- **15:36** Mark one call corners, extension to the east.

#### **Next Steps & Recommendations**

1 Continue borehole, wait for archeological hold to lift.

#### **Daily Site Visit Report**



#### **Site Photos**



Line sweeping the release before beginning delineation



**Viewing Direction**: Northwest

Borehole 1 @0ft Borehole 1 @1ft Borehole 1@ 1.5ft



Borehole 2 @0ft Borehole 2 @1ft



BH25-03 @0ft BH25-03 @1ft





As we dug into boreholes we came across large rocks making it difficult to acquire borehole. For reference here is BH25-04 with rocks to the right.



BH25-01 has been covered





Run on 4/28/2025 11:48 PM UTC Powered by www.krinkleldar.com Page 3 of 7





BH25-03 has been covered



BH25-05 has been covered



Northeast corner of one call facing west.



Northeast corner of one call facing south.





Northwest corner of one call facing east.



Northwest corner of one call facing south.



Southwest corner of one call facing north.



Southwest corner of one call facing east.





Southeast corner of one call facing west.



Southeast corner of one call facing north.



End of day picture viewing of the release



#### **Daily Site Visit Signature**

**Inspector:** Sharon Minnix

Signature: Signature



Client: Mack Energy Corporation Inspection Date: 4/29/2025

Site Location Name: B Lee State #006 Report Run Date: 4/29/2025 10:42 PM

Client Contact Name: Matt Buckles API #: 30-025-39637

Client Contact Name: Matt Buckles API #: 30-025-396
Client Contact Phone #: 575-748-1288

Unique Project ID Project Owner:

Project Reference # Project Manager:

Summary of Times			
Arrived at Site	4/29/2025 9:13 AM		
Departed Site	4/29/2025 1:00 PM		

#### **Field Notes**

9:13 Complete JSA and line sweep the area

9:49 Line sweep complete

#### **Next Steps & Recommendations**

1 Wait until archeological hold has been lifted and continue to acquire samples to the north



#### **Site Photos**



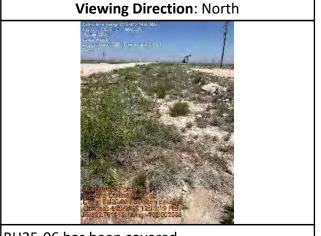
Site view before delineation begins for the day



BH25-06 at 1ft

Hitting refusal at 1ft





BH25-06 has been covered



### **Daily Site Visit Signature**

**Inspector:** Sharon Minnix

Signature: July Signature



Client: Mack Energy Corporation Incident ID #:

Site Location Name: B Lee State #006 API #: 30-025-39637

Inspection Date: 6/12/2025

 Summary of Times

 Arrived at Site
 6/12/2025 7:15 AM

 Departed Site
 6/12/2025 4:49 PM

#### **Field Notes**

- 7:39 Start a test excavation pit on the road to 4'
- 7:39 Aguire a base sample at 0', 1', 2', 3'and 4' for the test pit in the road
- **13:57** Due to trying to get the West of the excavation ready and complete with 5 point composites, samples on the East side will not be collected on 6.12.25 as stated in the 6.11.25 DFR.

#### **Next Steps & Recommendations**

1 Send clean samples to the lab



#### **Site Photos**

#### Viewing Direction: Southwest



Site view beginning test pit on the road

#### Viewing Direction: Northeast



TP25-28 at 0ft, 1ft, 2ft, 4ft, and 5ft. Sample has been acquired at these depths and field screened

#### Viewing Direction: Northeast



BS25-20 at 3ft, a 5 point composite and discrete sample has been acquired

#### Viewing Direction: Southwest



BS25-17 at 3ft, a 5 point composite and discrete sample have been acquired.





BS25-22 at 3ft, a 5 point composite and discrete sample have been acquired



BS25-19 at 3ft, a 5 point composite and discrete sample has been acquired



WS25-03 at 0-3 ft, a 5 point composite has been acquired



Site view of the area





BS25-08 at 3ft, a 5 point composite has been acquired



BS25-07 at 3ft, 5 point composite has been aquire.



BS25-16 at 3ft, a 5 point composite has been acquired



BS25-06 at 3ft, a 5 point composite has been acquired





BS25-05 at 3ft, a 5 point composite has been acquired.



BS25-04 at 3ft, 5 point composite





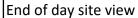
BS25-14 at 3ft, a 5 point composite has been acquired.



BS25-06 at 3ft, 5 point composite acquired.









End of day site view



#### **Daily Site Visit Signature**

**Inspector:** Sharon Minnix

Signature: 👱



Client:

Mack Energy Corporation

Incident ID #:

API#:

Site Location Name:

B Lee State #006

30-025-39637

Inspection Date:

6/16/2025

**Summary of Times** 

Arrived at Site

6/16/2025 7:06 AM

**Departed Site** 

6/16/2025 12:12 PM

**Field Notes** 

18:54 Take images of excavation

**18:54** JSA has been filled out by everyone on site.

#### **Next Steps & Recommendations**

1



#### **Site Photos**

#### Viewing Direction: Southwest



Site view of the excavation at 3ft and 5ft. Picture taken from the Northeast corner of the excavation.

### Viewing Direction: Southwest



Site view of the excavation at 3ft and 5ft. Picture taken from the Northeast corner of the excavation.





Site view of the excavation at 3ft and 5ft. Picture taken from the North.



Site view of the excavation at 3ft and 5ft. Picture taken from the Northwest corner of the excavation.



Site view of the excavation at 3ft. Picture taken from the Northeast corner of the excavation.



Site view of the excavation at 3ft. Picture taken from the North end of the excavation.





Site view of the excavation at 3ft. Picture taken from the Northeast corner of the excavation.



### **Daily Site Visit Signature**

**Inspector:** Sharon Minnix

Signature: Signature

VERTEX

Client: Mack Energy Corporation Incident ID #:

Site Location Name: B Lee State #006 API #: 30-025-39637

Inspection Date: 6/18/2025

**Summary of Times** 

Arrived at Site 6/18/2025 11:23 AM

Departed Site 6/18/2025 4:53 PM

**Field Notes** 

16:45 Collect BS25-09, BS25-26, and BS25-24

16:46 JSA has been filled out by everyone on site

#### **Next Steps & Recommendations**

1 Continue excavation



#### **Site Photos**



BS25-09 at 3.5ft



Excavation View of the West side excavation



### **Daily Site Visit Signature**

**Inspector:** Sharon Minnix

Signature:



Cita Lagatian Names

Mack Energy Corporation

Incident ID #:

API#:

Site Location Name:

B Lee State #006

30-025-39637

Inspection Date:

Client:

6/19/2025

**Summary of Times** 

Arrived at Site

6/19/2025 7:15 AM

**Departed Site** 

6/19/2025 2:36 PM

**Field Notes** 

16:10 JSA has been completed by everyone on site

#### **Next Steps & Recommendations**

1



#### **Site Photos**



BS25-04 at 3.5ft



A bypass road was created on the West to remove the road the main road.



A bypass road was created on the West to remove the road the main road.



### **Daily Site Visit Signature**

**Inspector:** Sharon Minnix

Signature:



Client: Mack Energy Corporation Incident ID #:

Site Location Name: B Lee State #006 API #: 30-025-39637

Inspection Date: 6/20/2025

**Summary of Times** 

Arrived at Site 6/20/2025 7:00 AM

Departed Site 6/20/2025 4:00 PM

#### **Field Notes**

17:55 JSA has been filled out by everyone on site.

17:55 Remove the road and field screen. Remove the road to 3.5ft

#### **Next Steps & Recommendations**

1 Send samples to the lab



#### **Site Photos**





Photo of the road before excavation begins.

#### Viewing Direction: Southwest



Photo showing the road has been removed to 3.5ft

#### **Viewing Direction**: Southwest



Photo showing the road has been removed to 3.5ft. Samples have been acquired and will be field screened.

#### **Viewing Direction**: Southwest



End of Day site view



#### **Daily Site Visit Signature**

**Inspector:** Sharon Minnix

Signature:



Mack Energy Corporation

Incident ID #:

API#:

Site Location Name:

B Lee State #006

30-025-39637

Inspection Date:

Client:

6/24/2025

**Summary of Times** 

Arrived at Site

6/24/2025 7:13 AM

Departed Site

6/24/2025 3:30 PM

**Field Notes** 

9:06 JSA has been filled out by everyone on site.

9:07 Collect BS25-15 at 3.5ft

#### **Next Steps & Recommendations**

1 Send samples to the lab. Acquire wall samples.



#### **Site Photos**

#### Viewing Direction: Southwest



BS25-15 before we excavate .5ft and field screen

#### Viewing Direction: Southwest



BS25-15 at 3.5ft

#### **Viewing Direction**: Southeast



Northwest corner looking at site view.

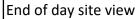
### Viewing Direction: Southwest



Northeast corner looking towards the site.









Site view of excavation



### **Daily Site Visit Signature**

**Inspector:** Sharon Minnix

Signature: Signature:



Client: Mack Energy Corporation Incident ID #:

Site Location Name: B Lee State #006 API #: 30-025-39637

Inspection Date: 6/25/2025

Summary of Times			
Arrived at Site	6/25/2025 7:06 AM		
Departed Site	6/25/2025 9:23 AM		

#### **Field Notes**

12:01 JSA has been filled out by everyone on site

**12:01** Rainy weather may limit the work for today.

### **Next Steps & Recommendations**

1 All needed base and wall samples have been acquired per the 200 square ft NMOCD process. Samples have been sent for lab analysis.



#### **Site Photos**





Site view of excavation from the Northeast corner of the site.

# **Viewing Direction**: Southwest



Site view of excavation

### Viewing Direction: Northwest



Site view of excavation from the Southeast corner.

### Viewing Direction: Northwest



Site view of excavation.



#### **Daily Site Visit Signature**

**Inspector:** Sharon Minnix

Signature: Signature



Client: Mack Energy Corporation Incident ID #:

Site Location Name: B Lee State #006 API #: 30-025-39637

Inspection Date: 7/2/2025

 Summary of Times

 Arrived at Site
 7/2/2025 8:04 AM

 Departed Site
 7/2/2025 2:25 PM

#### **Field Notes**

- 12:19 Completed JSA on arrival. On site to re-collect confirmation samples BS25-15, WS25-08, and WS25-09.
- **12:21** Excavation area was along lease road. Swept sampling areas with magnetic locator prior sample collection.
- 13:57 Collected confirmation base sample BH25-15 between 3 and 3.5 feet bgs (variable depth due to rock). Collected confirmation wall sample WS25-08 between 3 and 5 feet bgs. Collected confirmation wall sample WS25-09 between 0 and 4 feet bgs. Confirmation samples collected from the excavation base and walls were 5-point composites representing areas no greater than 200 square feet.
- 13:59 Sampling and field screening were slowed by rainfall.
- **13:59** Field screening results for confirmation samples BS25-15, WS25-08, and WS25-09 were below NMOCD strictest criteria for chloride and TPH.
- 15:18 Met laboratory courier and handed samples over to minimize lead time for results.

#### **Next Steps & Recommendations**

1



#### **Site Photos**

#### Viewing Direction: South



Inside excavation facing south. Collected excavation base sample BS25-15 at 3 and 3.5 feet bgs.

#### Viewing Direction: East



Inside excavation facing east. Collected excavation wall sample WS25-08 from 3 to 5 feet bgs.





South edge of excavation facing northeast. Collected excavation wall sample WS25-08 from 3 to 5 feet bgs.



Inside excavation facing south. Collected excavation wall sample WS25-09 from 0 to 4 feet bgs.



#### **Daily Site Visit Signature**

**Inspector:** Lakin Pullman

Signature: ݘ

VERTEX

Cita Lagation Name

Mack Energy Corporation

Incident ID #:

API#:

Site Location Name:

B Lee State #006

30-025-39637

Inspection Date:

Client:

7/11/2025

**Summary of Times** 

Arrived at Site

7/11/2025 2:20 PM

**Departed Site** 

7/11/2025 2:35 PM

**Field Notes** 

14:23 Completed JSA

14:24 Documented the completed backfilled location

#### **Next Steps & Recommendations**

1



#### **Site Photos**





Looking from the pad to the release

Viewing Direction: North



Top soil compared on the eastern side of the road

#### Viewing Direction: North



Caliche lease road rebuilt

#### **Viewing Direction**: Northwest



Western area of the lease road filled with topsoil





Backfill laid flat to match the contour of the surrounding area



From the northwest corner looking southeast across the caliche





From the southwest corner looking northeast across the caliche



#### **Daily Site Visit Signature**

**Inspector:** Katrina Taylor

Signature:

**APPENDIX D – Laboratory Data Reports and Chain of Custody Forms** 

**Environment Testing** 

# **ANALYTICAL REPORT**

### PREPARED FOR

Attn: Ms. Sally Carttar Vertex 3101 Boyd Dr Carlsbad, New Mexico 88220

Generated 5/7/2025 2:43:41 PM

### **JOB DESCRIPTION**

B Lee State #006

### **JOB NUMBER**

885-24054-1

Eurofins Albuquerque 4901 Hawkins NE Albuquerque NM 87109

# **Eurofins Albuquerque**

### **Job Notes**

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

### **Authorization**

Generated 5/7/2025 2:43:41 PM

Authorized for release by Cheyenne Cason, Project Manager cheyenne.cason@et.eurofinsus.com

(505)338-8812

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Client: Vertex

Laboratory Job ID: 885-24054-1

Project/Site: B Lee State #006

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#### **Definitions/Glossary**

Client: Vertex Job ID: 885-24054-1

Project/Site: B Lee State #006

**Glossary** 

DL, RA, RE, IN

LOD

Abbreviation	These commonly used abbreviations may or may not be present in this report.
<del>\</del>	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DI	Detection Limit (DoD/DOE)

Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample DLC Decision Level Concentration (Radiochemistry) EDL Estimated Detection Limit (Dioxin)

Limit of Quantitation (DoD/DOE) LOQ MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

Limit of Detection (DoD/DOE)

MDL Method Detection Limit MLMinimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

Not Detected at the reporting limit (or MDL or EDL if shown) ND

NEG Negative / Absent POS Positive / Present PQL Practical Quantitation Limit

**PRES** Presumptive **Quality Control** QC

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

**TEF** Toxicity Equivalent Factor (Dioxin) **TEQ** Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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#### **Case Narrative**

Client: Vertex Job ID: 885-24054-1

Project: B Lee State #006

Job ID: 885-24054-1 Eurofins Albuquerque

#### Job Narrative 885-24054-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these
  situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise
  specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

#### Receipt

The samples were received on 5/1/2025 8:10 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.9°C.

#### Gasoline Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### **Diesel Range Organics**

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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### **Client Sample Results**

Client: Vertex Job ID: 885-24054-1

Project/Site: B Lee State #006

Client Sample ID: BH25-06 0'

Lab Sample ID: 885-24054-1 Date Collected: 04/29/25 09:50 Matrix: Solid

Date Received: 05/01/25 08:10

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		05/01/25 17:03	05/02/25 20:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		35 - 166			05/01/25 17:03	05/02/25 20:43	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)	)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/01/25 17:03	05/02/25 20:43	1
Ethylbenzene	ND		0.049	mg/Kg		05/01/25 17:03	05/02/25 20:43	1
Toluene	ND		0.049	mg/Kg		05/01/25 17:03	05/02/25 20:43	1
Xylenes, Total	ND		0.098	mg/Kg		05/01/25 17:03	05/02/25 20:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		48 - 145			05/01/25 17:03	05/02/25 20:43	1
- Method: SW846 8015M/D - Diese	l Range Organ	ics (DRO) (	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	87		20	mg/Kg		05/02/25 12:59	05/02/25 19:49	2
Motor Oil Range Organics [C28-C40]	240		99	mg/Kg		05/02/25 12:59	05/02/25 19:49	2
	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Surrogate			62 - 134			05/02/25 12:59	05/02/25 19:49	2
	108		02 - 134					
Di-n-octyl phthalate (Surr)		ohy	02 - 134					
Surrogate Di-n-octyl phthalate (Surr) Method: EPA 300.0 - Anions, Ion Analyte	Chromatograp	hy Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

### **Client Sample Results**

Client: Vertex Job ID: 885-24054-1

Project/Site: B Lee State #006

Client Sample ID: BH25-06 1'

Lab Sample ID: 885-24054-2

05/02/25 11:06

05/02/25 17:55

20

Matrix: Solid

Date Collected: 04/29/25 10:40 Date Received: 05/01/25 08:10

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		05/01/25 17:03	05/02/25 21:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		35 - 166			05/01/25 17:03	05/02/25 21:05	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)	)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/01/25 17:03	05/02/25 21:05	1
Ethylbenzene	ND		0.047	mg/Kg		05/01/25 17:03	05/02/25 21:05	1
Toluene	ND		0.047	mg/Kg		05/01/25 17:03	05/02/25 21:05	1
Xylenes, Total	ND		0.095	mg/Kg		05/01/25 17:03	05/02/25 21:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		48 - 145			05/01/25 17:03	05/02/25 21:05	1
Method: SW846 8015M/D - Diese	I Range Organ	ics (DRO) (	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	32		9.6	mg/Kg		05/02/25 12:59	05/06/25 16:09	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		05/02/25 12:59	05/06/25 16:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	105		62 - 134			05/02/25 12:59	05/06/25 16:09	1
Method: EPA 300.0 - Anions, Ion	Chromatogran	hv						
Method: EPA 300.0 - Amons, ion	Ciliolilatograp	, iiy						

60

mg/Kg

ND

Job ID: 885-24054-1

Project/Site: B Lee State #006

Client: Vertex

Analyte

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-25372/1-A

**Matrix: Solid** Analysis Batch: 25397

Gasoline Range Organics [C6 - C10]

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 25372

мв мв Result Qualifier RL Unit Prepared Analyzed Dil Fac ND 5.0 mg/Kg 05/01/25 17:03 05/02/25 11:41

MB MB

Qualifier Surrogate %Recovery Limits Prepared Analyzed Dil Fac 05/01/25 17:03 4-Bromofluorobenzene (Surr) 100 35 - 166 05/02/25 11:41

Lab Sample ID: LCS 885-25372/2-A Client Sample ID: Lab Control Sample Prep Type: Total/NA

**Matrix: Solid** 

Analysis Batch: 25397

Prep Batch: 25372 Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits

25.0 27.7 111 70 - 130 Gasoline Range Organics [C6 mg/Kg

C10]

LCS LCS

Surrogate %Recovery Qualifier Limits 35 - 166 4-Bromofluorobenzene (Surr) 211

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-25372/1-A

**Matrix: Solid** 

Prep Type: Total/NA Analysis Batch: 25398 Prep Batch: 25372 MB MB

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	0.025	mg/Kg		05/01/25 17:03	05/02/25 11:41	1
Ethylbenzene	ND	0.050	mg/Kg		05/01/25 17:03	05/02/25 11:41	1
Toluene	ND	0.050	mg/Kg		05/01/25 17:03	05/02/25 11:41	1
Xylenes, Total	ND	0.10	mg/Kg		05/01/25 17:03	05/02/25 11:41	1

MB MB

%Recovery Qualifier Limits Dil Fac Surrogate Prepared Analyzed 48 - 145 05/01/25 17:03 05/02/25 11:41 4-Bromofluorobenzene (Surr) 98

Lab Sample ID: LCS 885-25372/3-A

**Matrix: Solid** 

Analysis Batch: 25398

Client Sample ID: Lab Control Sample

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25372

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	1.00	1.03	-	mg/Kg		103	70 - 130
Ethylbenzene	1.00	1.03		mg/Kg		103	70 - 130
m,p-Xylene	2.00	2.10		mg/Kg		105	70 - 130
o-Xylene	1.00	1.04		mg/Kg		104	70 - 130
Toluene	1.00	1.01		mg/Kg		101	70 - 130
Xylenes, Total	3.00	3.14		mg/Kg		105	70 - 130

LCS LCS

Surrogate %Recovery Qualifier Limits 48 - 145 4-Bromofluorobenzene (Surr) 97

Eurofins Albuquerque

Client: Vertex Job ID: 885-24054-1

Project/Site: B Lee State #006

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-25426/1-A **Matrix: Solid** 

Analysis Batch: 25385

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 25426

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Diesel Range Organics [C10-C28] ND 10 mg/Kg 05/02/25 12:59 05/02/25 15:41 Motor Oil Range Organics [C28-C40] ND 50 mg/Kg 05/02/25 12:59 05/02/25 15:41

MB MB

MB MB

Qualifier Limits Prepared Dil Fac Surrogate %Recovery Analyzed Di-n-octyl phthalate (Surr) 109 62 - 134 05/02/25 12:59 05/02/25 15:41

Client Sample ID: Lab Control Sample

%Rec

Lab Sample ID: LCS 885-25426/2-A **Matrix: Solid** 

Analysis Batch: 25385

Prep Type: Total/NA

Prep Batch: 25426

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits Diesel Range Organics 50.0 51.3 103 51 - 148 mg/Kg

[C10-C28]

LCS LCS

Surrogate %Recovery Qualifier Limits Di-n-octyl phthalate (Surr) 104 62 - 134

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-25414/1-A Client Sample ID: Method Blank

**Matrix: Solid** 

**Analysis Batch: 25422** 

Prep Type: Total/NA Prep Batch: 25414

RL Analyte Result Qualifier Unit D Analyzed Dil Fac Prepared Chloride ND 3.0 mg/Kg 05/02/25 11:06 05/02/25 12:37

Lab Sample ID: LCS 885-25414/2-A Client Sample ID: Lab Control Sample

**Matrix: Solid** 

Prep Type: Total/NA Analysis Batch: 25422 Prep Batch: 25414

LCS LCS Spike Analyte Added Result Qualifier Unit D %Rec Limits Chloride 30.0 29.1 97 90 - 110 mg/Kg

Eurofins Albuquerque

Client: Vertex Job ID: 885-24054-1

Project/Site: B Lee State #006

**GC VOA** 

Prep Batch: 25372

Lab Sample ID 885-24054-1	Client Sample ID BH25-06 0'	Prep Type Total/NA	Matrix Solid	Method 5030C	Prep Batch
885-24054-2	BH25-06 1'	Total/NA	Solid	5030C	
MB 885-25372/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-25372/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-25372/3-A	Lab Control Sample	Total/NA	Solid	5030C	

#### Analysis Batch: 25397

<b>Lab Sample ID</b> 885-24054-1	Client Sample ID BH25-06 0'	Prep Type Total/NA	Matrix Solid	Method 8015M/D	Prep Batch 25372
885-24054-2	BH25-06 1'	Total/NA	Solid	8015M/D	25372
MB 885-25372/1-A	Method Blank	Total/NA	Solid	8015M/D	25372
LCS 885-25372/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	25372

#### Analysis Batch: 25398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24054-1	BH25-06 0'	Total/NA	Solid	8021B	25372
885-24054-2	BH25-06 1'	Total/NA	Solid	8021B	25372
MB 885-25372/1-A	Method Blank	Total/NA	Solid	8021B	25372
LCS 885-25372/3-A	Lab Control Sample	Total/NA	Solid	8021B	25372

#### **GC Semi VOA**

#### Analysis Batch: 25385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24054-1	BH25-06 0'	Total/NA	Solid	8015M/D	25426
MB 885-25426/1-A	Method Blank	Total/NA	Solid	8015M/D	25426
LCS 885-25426/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	25426

#### Prep Batch: 25426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24054-1	BH25-06 0'	Total/NA	Solid	SHAKE	
885-24054-2	BH25-06 1'	Total/NA	Solid	SHAKE	
MB 885-25426/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-25426/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

#### Analysis Batch: 25545

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24054-2	BH25-06 1'	Total/NA	Solid	8015M/D	25426

#### HPLC/IC

#### Prep Batch: 25414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24054-1	BH25-06 0'	Total/NA	Solid	300_Prep	
885-24054-2	BH25-06 1'	Total/NA	Solid	300_Prep	
MB 885-25414/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-25414/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24054-1	BH25-06 0'	Total/NA	Solid	300.0	25414
885-24054-2	BH25-06 1'	Total/NA	Solid	300.0	25414

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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24054-1	BH25-06 0'	Total/NA	Solid	300.0	25414
885-24054-2	BH25-06 1'	Total/NA	Solid	300.0	25414

### QC Association Summary

Client: Vertex Job ID: 885-24054-1

Project/Site: B Lee State #006

#### **HPLC/IC** (Continued)

**Analysis Batch: 25422 (Continued)** 

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-25414/1-A	Method Blank	Total/NA	Solid	300.0	25414
LCS 885-25414/2-A	Lab Control Sample	Total/NA	Solid	300.0	25414

4

4

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4 -

Job ID: 885-24054-1

Project/Site: B Lee State #006

Date Received: 05/01/25 08:10

Client: Vertex

Client Sample ID: BH25-06 0'

Lab Sample ID: 885-24054-1 Date Collected: 04/29/25 09:50

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			25372	JP	EET ALB	05/01/25 17:03
Total/NA	Analysis	8015M/D		1	25397	AT	EET ALB	05/02/25 20:43
Total/NA	Prep	5030C			25372	JP	EET ALB	05/01/25 17:03
Total/NA	Analysis	8021B		1	25398	AT	EET ALB	05/02/25 20:43
Total/NA	Prep	SHAKE			25426	MI	EET ALB	05/02/25 12:59
Total/NA	Analysis	8015M/D		2	25385	MI	EET ALB	05/02/25 19:49
Total/NA	Prep	300_Prep			25414	RC	EET ALB	05/02/25 11:06
Total/NA	Analysis	300.0		20	25422	JT	EET ALB	05/02/25 17:44

Client Sample ID: BH25-06 1' Lab Sample ID: 885-24054-2

Date Collected: 04/29/25 10:40 Matrix: Solid

Date Received: 05/01/25 08:10

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			25372	JP	EET ALB	05/01/25 17:03
Total/NA	Analysis	8015M/D		1	25397	AT	EET ALB	05/02/25 21:05
Total/NA	Prep	5030C			25372	JP	EET ALB	05/01/25 17:03
Total/NA	Analysis	8021B		1	25398	AT	EET ALB	05/02/25 21:05
Total/NA	Prep	SHAKE			25426	MI	EET ALB	05/02/25 12:59
Total/NA	Analysis	8015M/D		1	25545	MI	EET ALB	05/06/25 16:09
Total/NA	Prep	300_Prep			25414	RC	EET ALB	05/02/25 11:06
Total/NA	Analysis	300.0		20	25422	JT	EET ALB	05/02/25 17:55

**Laboratory References:** 

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

### **Accreditation/Certification Summary**

Client: Vertex Job ID: 885-24054-1

Project/Site: B Lee State #006

#### **Laboratory: Eurofins Albuquerque**

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Progr	am	Identification Number	Expiration Date	
lew Mexico			NM9425, NM0901	02-27-26	
• ,	are included in this report, bu	ut the laboratory is not certif	ied by the governing authority. This lis	t may include analytes	
Analysis Method	Prep Method	Matrix	Analyte		
300.0	300_Prep	Solid	Chloride		
8015M/D	5030C	Solid	Gasoline Range Organics	[C6 - C10]	
8015M/D	SHAKE	Solid	Diesel Range Organics [C	10-C28]	
8015M/D	SHAKE	Solid	Motor Oil Range Organics	[C28-C40]	
8021B	5030C	Solid	Benzene		
8021B	5030C	Solid	Ethylbenzene		
8021B	5030C	Solid	Toluene		
8021B	5030C	Solid	Xylenes, Total		
Pregon	NELA	P	NM100001	02-26-26	

5

10

Eurofins Albuquerque

Received by:

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Fax 505-345-4107



885-24054 COC

7/16/2025 12:00:36 AM Total Coliform (Present/Absent) Remarks: Direct Bill to Mack Energy: ATTN: Matt Buckles CC.Sally Carttar (SCarttar@vertexresource.com), Sharon Minnix (SMinnix@vertexresource.com), and Andrew Ludvik

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report



(ALudvik@vertexresource.com).







132 of 400

Date:

4.29.25

Time:

Time:

1900

1627

Relinquished by:

Relinquished by:

Sharon Minnix

Received by:

Via:

Date:

4.29.25

Time:

Time:

1627

1900

Relinquished by:

Relinquished by:

Sharon Minnix

#### HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Fax 505-345-4107

			JI. 00										885-2	4054 C	coc	// LU
1	(RIE) / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	C) F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub>	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)						7710/2020 12.00.00 AIM
	Х	Х					Х									
	Χ	Х					Х									
															$\perp$	
														$\perp$	+	
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	Ren	nark	 s:													1
	Dire CC.	ct B	ill to / Cai	rttar	(SC	artta	r@v	ertex	resc	ource	e.cor	n), S	Sharoi K	n Mini	nix	

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Date

(ALudvik@vertexresource.com)

#### **Login Sample Receipt Checklist**

Client: Vertex Job Number: 885-24054-1

Login Number: 24054 List Source: Eurofins Albuquerque

List Number: 1

Creator: Dominguez, Desiree

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	N/A	

**Environment Testing** 

# **ANALYTICAL REPORT**

### PREPARED FOR

Attn: Ms. Sally Carttar Vertex 3101 Boyd Dr Carlsbad, New Mexico 88220

Generated 5/7/2025 2:43:41 PM

### **JOB DESCRIPTION**

B Lee State #006

### **JOB NUMBER**

885-24056-1

Eurofins Albuquerque 4901 Hawkins NE Albuquerque NM 87109

# **Eurofins Albuquerque**

### **Job Notes**

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

### **Authorization**

Generated 5/7/2025 2:43:41 PM

Authorized for release by Cheyenne Cason, Project Manager cheyenne.cason@et.eurofinsus.com (505)338-8812

Page 2 of 22

5/7/2025

Client: Vertex
Laboratory Job ID: 885-24056-1
Project/Site: B Lee State #006

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### **Definitions/Glossary**

Client: Vertex Job ID: 885-24056-1

Project/Site: B Lee State #006

#### **Glossary**

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit MLMinimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present PQL Practical Quantitation Limit

**PRES** Presumptive **Quality Control** QC

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

#### **Case Narrative**

Client: Vertex Job ID: 885-24056-1

Project: B Lee State #006

Job ID: 885-24056-1 Eurofins Albuquerque

#### Job Narrative 885-24056-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these
  situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise
  specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

#### Receipt

The samples were received on 5/1/2025 8:10 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.9°C.

#### Receipt Exceptions

The Field Sampler was not listed on the Chain of Custody.

#### **Gasoline Range Organics**

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### **GC VOA**

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### **Diesel Range Organics**

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Albuquerque

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Client: Vertex Job ID: 885-24056-1

Project/Site: B Lee State #006

Chloride

Client Sample ID: BH25-02 0.0'

Lab Sample ID: 885-24056-1

Date Collected: 04/28/25 09:40 Matrix: Solid Date Received: 05/01/25 08:10

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		05/02/25 07:07	05/05/25 13:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		35 - 166			05/02/25 07:07	05/05/25 13:14	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)	)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/02/25 07:07	05/05/25 13:14	1
Ethylbenzene	ND		0.050	mg/Kg		05/02/25 07:07	05/05/25 13:14	1
Toluene	ND		0.050	mg/Kg		05/02/25 07:07	05/05/25 13:14	1
Xylenes, Total	ND		0.10	mg/Kg		05/02/25 07:07	05/05/25 13:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		48 - 145			05/02/25 07:07	05/05/25 13:14	1
Method: SW846 8015M/D - Diese	I Range Organ	ics (DRO) (	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		05/02/25 12:56	05/02/25 21:15	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		05/02/25 12:56	05/02/25 21:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	108		62 - 134			05/02/25 12:56	05/02/25 21:15	1
·								
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy						

59

mg/Kg

ND

05/04/25 13:07

05/05/25 08:55

20

Client: Vertex Job ID: 885-24056-1

Project/Site: B Lee State #006

Client Sample ID: BH25-02 1.0'

Lab Sample ID: 885-24056-2

Date Collected: 04/28/25 09:55 Matrix: Solid Date Received: 05/01/25 08:10

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		05/02/25 07:07	05/05/25 14:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		35 - 166			05/02/25 07:07	05/05/25 14:19	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC	)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/02/25 07:07	05/05/25 14:19	1
Ethylbenzene	ND		0.050	mg/Kg		05/02/25 07:07	05/05/25 14:19	1
Toluene	ND		0.050	mg/Kg		05/02/25 07:07	05/05/25 14:19	1
Xylenes, Total	ND		0.10	mg/Kg		05/02/25 07:07	05/05/25 14:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		48 - 145			05/02/25 07:07	05/05/25 14:19	1
Method: SW846 8015M/D - Diese	l Range Organ	ics (DRO) (	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9	mg/Kg		05/02/25 12:56	05/02/25 21:48	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		05/02/25 12:56	05/02/25 21:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	110		62 - 134			05/02/25 12:56	05/02/25 21:48	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	ohy						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client: Vertex Job ID: 885-24056-1

Project/Site: B Lee State #006

Client Sample ID: BH25-04 0.0'

Lab Sample ID: 885-24056-3

Date Collected: 04/28/25 13:10 Matrix: Solid Date Received: 05/01/25 08:10

	iveani	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
asoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		05/02/25 07:07	05/05/25 15:24	1
urrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
-Bromofluorobenzene (Surr)	97		35 - 166			05/02/25 07:07	05/05/25 15:24	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)	)					
nalyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
enzene	ND		0.024	mg/Kg		05/02/25 07:07	05/05/25 15:24	1
thylbenzene	ND		0.049	mg/Kg		05/02/25 07:07	05/05/25 15:24	1
oluene	ND		0.049	mg/Kg		05/02/25 07:07	05/05/25 15:24	1
ylenes, Total	ND		0.098	mg/Kg		05/02/25 07:07	05/05/25 15:24	1
urrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
-Bromofluorobenzene (Surr)	91		48 - 145			05/02/25 07:07	05/05/25 15:24	1
Method: SW846 8015M/D - Diese	l Range Organ	ics (DRO) (	GC)					
nalyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
iesel Range Organics [C10-C28]	ND		9.9	mg/Kg		05/02/25 12:56	05/02/25 21:58	1
lotor Oil Range Organics [C28-C40]	ND		49	mg/Kg		05/02/25 12:56	05/02/25 21:58	1
urrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
ni-n-octyl phthalate (Surr)	105		62 - 134			05/02/25 12:56	05/02/25 21:58	1

ND

05/04/25 13:07

05/05/25 10:14

mg/Kg

Chloride

### **Client Sample Results**

Client: Vertex Job ID: 885-24056-1

Project/Site: B Lee State #006

Client Sample ID: BH25-04 1.0'

Lab Sample ID: 885-24056-4 Date Collected: 04/28/25 13:20

Matrix: Solid

05/02/25 12:56

Prepared

05/04/25 13:07

D

05/02/25 22:09

Analyzed

05/05/25 10:24

Dil Fac

20

Date Received: 05/01/25 08:10

Di-n-octyl phthalate (Surr)

Analyte

Chloride

Method: EPA 300.0 - Anions, Ion Chromatography

Method: SW846 8015M/D - Gasol	line Range Org	anics (GRC	)) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		05/02/25 07:07	05/05/25 15:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		35 - 166			05/02/25 07:07	05/05/25 15:46	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)	)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/02/25 07:07	05/05/25 15:46	1
Ethylbenzene	ND		0.050	mg/Kg		05/02/25 07:07	05/05/25 15:46	1
Toluene	ND		0.050	mg/Kg		05/02/25 07:07	05/05/25 15:46	1
Xylenes, Total	ND		0.099	mg/Kg		05/02/25 07:07	05/05/25 15:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		48 - 145			05/02/25 07:07	05/05/25 15:46	1
- Method: SW846 8015M/D - Diese	I Range Organ	ics (DRO) (	GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8	mg/Kg		05/02/25 12:56	05/02/25 22:09	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		05/02/25 12:56	05/02/25 22:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

62 - 134

RL

60

Unit

mg/Kg

107

ND

Result Qualifier

Eurofins	Albuc	uero	lue

### **Client Sample Results**

Client: Vertex Job ID: 885-24056-1

Project/Site: B Lee State #006

Client Sample ID: BH25-05 0.0'

Lab Sample ID: 885-24056-5

Matrix: Solid

Date Collected: 04/28/25 13:25 Date Received: 05/01/25 08:10

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		05/02/25 07:07	05/05/25 16:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		35 - 166			05/02/25 07:07	05/05/25 16:07	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/02/25 07:07	05/05/25 16:07	1
Ethylbenzene	ND		0.050	mg/Kg		05/02/25 07:07	05/05/25 16:07	1
Toluene	ND		0.050	mg/Kg		05/02/25 07:07	05/05/25 16:07	1
Xylenes, Total	ND		0.099	mg/Kg		05/02/25 07:07	05/05/25 16:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		48 - 145			05/02/25 07:07	05/05/25 16:07	1
Method: SW846 8015M/D - Diese	l Range Organ	ics (DRO) (	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	29		19	mg/Kg		05/02/25 12:56	05/02/25 22:20	2
Motor Oil Range Organics [C28-C40]	200		97	mg/Kg		05/02/25 12:56	05/02/25 22:20	2
		Ovalifian	Limits			Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Quaimer						
Surrogate Di-n-octyl phthalate (Surr)	<del>%Recovery</del> 114	Quaimer	62 - 134			05/02/25 12:56	05/02/25 22:20	2
	114		62 - 134			05/02/25 12:56	05/02/25 22:20	2
Di-n-octyl phthalate (Surr)	114 Chromatograp		62 - 134 RL	Unit	D	05/02/25 12:56  Prepared	05/02/25 22:20 Analyzed	2 Dil Fac

Client: Vertex Job ID: 885-24056-1

Project/Site: B Lee State #006

Client Sample ID: BH25-05 1.0'

Lab Sample ID: 885-24056-6

Matrix: Solid

Date Collected: 04/28/25 14:00 Date Received: 05/01/25 08:10

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		05/02/25 07:07	05/05/25 16:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		35 - 166			05/02/25 07:07	05/05/25 16:29	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/02/25 07:07	05/05/25 16:29	1
Ethylbenzene	ND		0.048	mg/Kg		05/02/25 07:07	05/05/25 16:29	1
Toluene	ND		0.048	mg/Kg		05/02/25 07:07	05/05/25 16:29	1
Xylenes, Total	ND		0.096	mg/Kg		05/02/25 07:07	05/05/25 16:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		48 - 145			05/02/25 07:07	05/05/25 16:29	1
- Method: SW846 8015M/D - Diese	l Range Organ	ics (DRO) (	GC)					
		ics (DRO) ( Qualifier	GC)	Unit	D	Prepared	Analyzed	Dil Fac
Analyte		, ,,	•	<mark>Unit</mark> mg/Kg	<u>D</u>	Prepared 05/02/25 12:56	Analyzed 05/06/25 16:19	Dil Fac
	Result	, ,,	RL		<u>D</u>			Dil Fac
Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40]	Result 20	Qualifier	9.7 ————————————————————————————————————	mg/Kg	<u>D</u>	05/02/25 12:56	05/06/25 16:19	Dil Fac
Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate	Result 20 110	Qualifier	9.7 49	mg/Kg	<u> </u>	05/02/25 12:56 05/02/25 12:56	05/06/25 16:19 05/06/25 16:19	1 Dil Fac
Analyte  Diesel Range Organics [C10-C28]  Motor Oil Range Organics [C28-C40]  Surrogate  Di-n-octyl phthalate (Surr)	Result 20 110 %Recovery 113	Qualifier Qualifier	9.7 49 <i>Limits</i>	mg/Kg	<u>D</u>	05/02/25 12:56 05/02/25 12:56 Prepared	05/06/25 16:19 05/06/25 16:19 Analyzed	1
Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics	Result 20 110  %Recovery 113  Chromatograp	Qualifier Qualifier	9.7 49 <i>Limits</i>	mg/Kg	D_	05/02/25 12:56 05/02/25 12:56 Prepared	05/06/25 16:19 05/06/25 16:19 Analyzed	1 1 Dil Fac

Prep Batch: 25383

05/05/25 12:52

Job ID: 885-24056-1

mg/Kg

05/02/25 07:07

Project/Site: B Lee State #006

Client: Vertex

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-25383/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 25508

Gasoline Range Organics [C6 - C10]

MB MB Analyte Result Qualifier RLUnit D Prepared Analyzed Dil Fac

5.0

MB MB

ND

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 100 35 - 166 05/02/25 07:07 05/05/25 12:52

Lab Sample ID: LCS 885-25383/2-A Client Sample ID: Lab Control Sample Prep Type: Total/NA

**Matrix: Solid** 

Analysis Batch: 25508

Prep Batch: 25383 Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits 25.0 27.9 111 70 - 130 Gasoline Range Organics [C6 mg/Kg

C10]

LCS LCS

%Recovery Qualifier Limits Surrogate 215 35 - 166 4-Bromofluorobenzene (Surr)

Lab Sample ID: 885-24056-1 MS Client Sample ID: BH25-02 0.0' Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 25508** 

Prep Batch: 25383 Sample Sample Spike MS MS Result Qualifier Added Result Qualifier Analyte Unit D %Rec Limits 25.0 107 70 - 130 Gasoline Range Organics [C6 -ND 26.7 mg/Kg

C10] MS MS %Recovery Qualifier Limits Surrogate

4-Bromofluorobenzene (Surr) 211 35 - 166

Lab Sample ID: 885-24056-1 MSD

**Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 25508** Prep Batch: 25383

Sample Sample MSD MSD Spike Result Qualifier Added Qualifier RPD Analyte Result %Rec Limits Unit Gasoline Range Organics [C6 -ND 25.0 28.1 mg/Kg 112 70 - 130 5

C10]

MSD MSD

%Recovery Surrogate Qualifier Limits 35 - 166 4-Bromofluorobenzene (Surr) 212

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-25383/1-A

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 25509** Prep Batch: 25383

MB MB Analyte Result Qualifier RL Unit Analyzed Dil Fac D Prepared Benzene ND 0.025 mg/Kg 05/02/25 07:07 05/05/25 12:52 Ethylbenzene ND 0.050 mg/Kg 05/02/25 07:07 05/05/25 12:52 ND 0.050 05/05/25 12:52 Toluene 05/02/25 07:07 mg/Kg

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Client Sample ID: BH25-02 0.0'

RPD Limit

20

Client Sample ID: Method Blank

Released to Imaging: 8/20/2025 11:23:00 AM

Lab Sample ID: MB 885-25383/1-A

Client: Vertex Job ID: 885-24056-1

Project/Site: B Lee State #006

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

**Matrix: Solid** 

**Analysis Batch: 25509** 

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25383

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.10	mg/Kg		05/02/25 07:07	05/05/25 12:52	1

MR MR

MB MB

%Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 95 48 - 145 05/02/25 07:07 05/05/25 12:52

Lab Sample ID: LCS 885-25383/3-A Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 25509

Prep Type: Total/NA

Prep Batch: 25383

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	1.00	1.03		mg/Kg		103	70 - 130	
Ethylbenzene	1.00	1.04		mg/Kg		104	70 - 130	
m,p-Xylene	2.00	2.07		mg/Kg		104	70 - 130	
o-Xylene	1.00	1.04		mg/Kg		104	70 - 130	
Toluene	1.00	1.01		mg/Kg		101	70 - 130	
Xylenes, Total	3.00	3.11		mg/Kg		104	70 - 130	

LCS LCS

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 92 48 - 145

Lab Sample ID: 885-24056-2 MS

**Matrix: Solid** 

Analysis Batch: 25509

Client Sample ID: BH25-02 1.0'

Prep Type: Total/NA

Prep Batch: 25383

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	ND		0.999	1.02		mg/Kg		102	70 - 130	
Ethylbenzene	ND		0.999	1.04		mg/Kg		104	70 - 130	
m,p-Xylene	ND		2.00	2.08		mg/Kg		104	70 - 130	
o-Xylene	ND		0.999	1.04		mg/Kg		105	70 - 130	
Toluene	ND		0.999	1.01		mg/Kg		101	70 - 130	
Xylenes, Total	ND		3.00	3.13		mg/Kg		104	70 - 130	

MS MS

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 92 48 - 145

Lab Sample ID: 885-24056-2 MSD

**Matrix: Solid** 

Analysis Batch: 25509

Client Sample	ID: BH25-02 1.0'
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Prep Type: Total/NA

Prep Batch: 25383

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	ND		0.995	0.997		mg/Kg		100	70 - 130	3	20
Ethylbenzene	ND		0.995	1.03		mg/Kg		104	70 - 130	1	20
m,p-Xylene	ND		1.99	2.08		mg/Kg		105	70 - 130	0	20
o-Xylene	ND		0.995	1.04		mg/Kg		104	70 - 130	1	20
Toluene	ND		0.995	0.988		mg/Kg		99	70 - 130	3	20
Xylenes, Total	ND		2.99	3.12		mg/Kg		104	70 - 130	0	20

Lab Sample ID: 885-24056-2 MSD

Job ID: 885-24056-1

Project/Site: B Lee State #006

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

**Matrix: Solid** 

Client: Vertex

Analysis Batch: 25509

Client Sample ID: BH25-02 1.0' Prep Type: Total/NA

Prep Batch: 25383

MSD MSD

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 93 48 - 145

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-25425/1-A

Matrix: Solid

**Analysis Batch: 25385** 

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25425

Prep Type: Total/NA

Prep Batch: 25425

MB MB Analyte Result Qualifier RLUnit D Prepared Dil Fac Analyzed Diesel Range Organics [C10-C28] 05/02/25 12:56 ND 10 mg/Kg 05/02/25 20:54 Motor Oil Range Organics [C28-C40] ND 50 05/02/25 12:56 05/02/25 20:54 mg/Kg MB MB %Recovery Limits Qualifier Dil Fac Surrogate Prepared Analyzed 05/02/25 12:56 Di-n-octyl phthalate (Surr) 111 62 - 134 05/02/25 20:54

Lab Sample ID: LCS 885-25425/2-A Client Sample ID: Lab Control Sample

**Matrix: Solid** 

**Analysis Batch: 25385** 

Spike LCS LCS %Rec Added Result Qualifier Unit D %Rec Limits

Analyte Diesel Range Organics 50.0 53.6 107 51 - 148 mg/Kg

[C10-C28]

LCS LCS

Surrogate %Recovery Qualifier Limits Di-n-octyl phthalate (Surr) 110 62 - 134

Lab Sample ID: 885-24056-1 MS

**Matrix: Solid** 

**Analysis Batch: 25385** 

Client Sample ID: BH25-02 0.0' Prep Type: Total/NA

Prep Batch: 25425

Spike MS MS %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Diesel Range Organics ND 50.0 49.0 mg/Kg 98 44 - 136 [C10-C28]

MS MS

Surrogate %Recovery Qualifier Limits Di-n-octyl phthalate (Surr) 115 62 - 134

Lab Sample ID: 885-24056-1 MSD Client Sample ID: BH25-02 0.0'

**Matrix: Solid** 

**Analysis Batch: 25385** 

Prep Type: Total/NA

Prep Batch: 25425

RPD Sample Sample Spike MSD MSD %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Diesel Range Organics ND 49.7 47.6 mg/Kg 96 44 - 136 32

[C10-C28]

MSD MSD

%Recovery Qualifier Limits Surrogate Di-n-octyl phthalate (Surr) 110 62 - 134

Client: Vertex Job ID: 885-24056-1

Project/Site: B Lee State #006

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-25451/1-A

Analysis Batch: 25454

**Matrix: Solid** 

Analyte

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 25451

Client Sample ID: BH25-02 1.0'

Prep Type: Total/NA

Prep Batch: 25451

Prep Type: Total/NA

MB MB Result Qualifier RL Unit D Prepared Analyzed Dil Fac

Chloride ND 3.0 mg/Kg 05/04/25 13:07 05/05/25 08:06 Lab Sample ID: LCS 885-25451/2-A Client Sample ID: Lab Control Sample

**Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 25454** Prep Batch: 25451

Spike LCS LCS %Rec

Added Qualifier Analyte Result Unit D %Rec Limits Chloride 30.0 28.5 mg/Kg 95 90 - 110

Lab Sample ID: 885-24056-1 MS Client Sample ID: BH25-02 0.0' Prep Type: Total/NA

**Matrix: Solid** 

Analysis Batch: 25454

Prep Batch: 25451 Sample Sample MS MS Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Chloride ND 29.8 ND 50 - 150 mg/Kg NC

Lab Sample ID: 885-24056-1 MSD Client Sample ID: BH25-02 0.0' Prep Type: Total/NA

**Matrix: Solid** 

Analysis Batch: 25454

Prep Batch: 25451 Spike MSD MSD RPD Sample Sample %Rec Result Analyte Result Qualifier Added Qualifier Unit %Rec Limit Limits 20

Chloride ND 30.1 ND NC 50 - 150 NC mg/Kg

**Matrix: Solid** 

Analysis Batch: 25454

Lab Sample ID: 885-24056-2 MS

Sample Sample Spike MS MS Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 30.0 ND ND mg/Kg NC 50 - 150

Lab Sample ID: 885-24056-2 MSD Client Sample ID: BH25-02 1.0'

**Matrix: Solid** 

**Analysis Batch: 25454** 

Prep Batch: 25451 Sample Sample Spike MSD MSD **RPD** Result Qualifier Added RPD Limit Analyte Result Qualifier Unit D %Rec Limits Chloride ND 29.9 ND mg/Kg NC 50 - 150 NC 20

# **QC Association Summary**

Client: Vertex Job ID: 885-24056-1

Project/Site: B Lee State #006

**GC VOA** 

Prep Batch: 25383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24056-1	BH25-02 0.0'	Total/NA	Solid	5030C	
885-24056-2	BH25-02 1.0'	Total/NA	Solid	5030C	
885-24056-3	BH25-04 0.0'	Total/NA	Solid	5030C	
885-24056-4	BH25-04 1.0'	Total/NA	Solid	5030C	
885-24056-5	BH25-05 0.0'	Total/NA	Solid	5030C	
885-24056-6	BH25-05 1.0'	Total/NA	Solid	5030C	
MB 885-25383/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-25383/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-25383/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-24056-1 MS	BH25-02 0.0'	Total/NA	Solid	5030C	
885-24056-1 MSD	BH25-02 0.0'	Total/NA	Solid	5030C	
885-24056-2 MS	BH25-02 1.0'	Total/NA	Solid	5030C	
885-24056-2 MSD	BH25-02 1.0'	Total/NA	Solid	5030C	

Analysis Batch: 25508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24056-1	BH25-02 0.0'	Total/NA	Solid	8015M/D	25383
885-24056-2	BH25-02 1.0'	Total/NA	Solid	8015M/D	25383
885-24056-3	BH25-04 0.0'	Total/NA	Solid	8015M/D	25383
885-24056-4	BH25-04 1.0'	Total/NA	Solid	8015M/D	25383
885-24056-5	BH25-05 0.0'	Total/NA	Solid	8015M/D	25383
885-24056-6	BH25-05 1.0'	Total/NA	Solid	8015M/D	25383
MB 885-25383/1-A	Method Blank	Total/NA	Solid	8015M/D	25383
LCS 885-25383/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	25383
885-24056-1 MS	BH25-02 0.0'	Total/NA	Solid	8015M/D	25383
885-24056-1 MSD	BH25-02 0.0'	Total/NA	Solid	8015M/D	25383

**Analysis Batch: 25509** 

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24056-1	BH25-02 0.0'	Total/NA	Solid	8021B	25383
885-24056-2	BH25-02 1.0'	Total/NA	Solid	8021B	25383
885-24056-3	BH25-04 0.0'	Total/NA	Solid	8021B	25383
885-24056-4	BH25-04 1.0'	Total/NA	Solid	8021B	25383
885-24056-5	BH25-05 0.0'	Total/NA	Solid	8021B	25383
885-24056-6	BH25-05 1.0'	Total/NA	Solid	8021B	25383
MB 885-25383/1-A	Method Blank	Total/NA	Solid	8021B	25383
LCS 885-25383/3-A	Lab Control Sample	Total/NA	Solid	8021B	25383
885-24056-2 MS	BH25-02 1.0'	Total/NA	Solid	8021B	25383
885-24056-2 MSD	BH25-02 1.0'	Total/NA	Solid	8021B	25383

**GC Semi VOA** 

Analysis Batch: 25385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24056-1	BH25-02 0.0'	Total/NA	Solid	8015M/D	25425
885-24056-2	BH25-02 1.0'	Total/NA	Solid	8015M/D	25425
885-24056-3	BH25-04 0.0'	Total/NA	Solid	8015M/D	25425
885-24056-4	BH25-04 1.0'	Total/NA	Solid	8015M/D	25425
885-24056-5	BH25-05 0.0'	Total/NA	Solid	8015M/D	25425
MB 885-25425/1-A	Method Blank	Total/NA	Solid	8015M/D	25425
LCS 885-25425/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	25425

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## **QC Association Summary**

Client: Vertex Job ID: 885-24056-1

Project/Site: B Lee State #006

## GC Semi VOA (Continued)

### **Analysis Batch: 25385 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24056-1 MS	BH25-02 0.0'	Total/NA	Solid	8015M/D	25425
885-24056-1 MSD	BH25-02 0.0'	Total/NA	Solid	8015M/D	25425

#### Prep Batch: 25425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24056-1	BH25-02 0.0'	Total/NA	Solid	SHAKE	
885-24056-2	BH25-02 1.0'	Total/NA	Solid	SHAKE	
885-24056-3	BH25-04 0.0'	Total/NA	Solid	SHAKE	
885-24056-4	BH25-04 1.0'	Total/NA	Solid	SHAKE	
885-24056-5	BH25-05 0.0'	Total/NA	Solid	SHAKE	
885-24056-6	BH25-05 1.0'	Total/NA	Solid	SHAKE	
MB 885-25425/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-25425/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-24056-1 MS	BH25-02 0.0'	Total/NA	Solid	SHAKE	
885-24056-1 MSD	BH25-02 0.0'	Total/NA	Solid	SHAKE	

#### **Analysis Batch: 25545**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24056-6	BH25-05 1.0'	Total/NA	Solid	8015M/D	25425

#### **HPLC/IC**

### Prep Batch: 25451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24056-1	BH25-02 0.0'	Total/NA	Solid	300_Prep	
885-24056-2	BH25-02 1.0'	Total/NA	Solid	300_Prep	
885-24056-3	BH25-04 0.0'	Total/NA	Solid	300_Prep	
885-24056-4	BH25-04 1.0'	Total/NA	Solid	300_Prep	
885-24056-5	BH25-05 0.0'	Total/NA	Solid	300_Prep	
885-24056-6	BH25-05 1.0'	Total/NA	Solid	300_Prep	
MB 885-25451/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-25451/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-24056-1 MS	BH25-02 0.0'	Total/NA	Solid	300_Prep	
885-24056-1 MSD	BH25-02 0.0'	Total/NA	Solid	300_Prep	
885-24056-2 MS	BH25-02 1.0'	Total/NA	Solid	300_Prep	
885-24056-2 MSD	BH25-02 1.0'	Total/NA	Solid	300_Prep	

### Analysis Batch: 25454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24056-1	BH25-02 0.0'	Total/NA	Solid	300.0	25451
885-24056-2	BH25-02 1.0'	Total/NA	Solid	300.0	25451
885-24056-3	BH25-04 0.0'	Total/NA	Solid	300.0	25451
885-24056-4	BH25-04 1.0'	Total/NA	Solid	300.0	25451
885-24056-5	BH25-05 0.0'	Total/NA	Solid	300.0	25451
885-24056-6	BH25-05 1.0'	Total/NA	Solid	300.0	25451
MB 885-25451/1-A	Method Blank	Total/NA	Solid	300.0	25451
LCS 885-25451/2-A	Lab Control Sample	Total/NA	Solid	300.0	25451
885-24056-1 MS	BH25-02 0.0'	Total/NA	Solid	300.0	25451
885-24056-1 MSD	BH25-02 0.0'	Total/NA	Solid	300.0	25451
885-24056-2 MS	BH25-02 1.0'	Total/NA	Solid	300.0	25451
885-24056-2 MSD	BH25-02 1.0'	Total/NA	Solid	300.0	25451

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Project/Site: B Lee State #006

Client: Vertex

Client Sample ID: BH25-02 0.0'

Date Collected: 04/28/25 09:40

Lab Sample ID: 885-24056-1

**Matrix: Solid** 

Date Received: 05/01/25 08:10

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			25383	JE	EET ALB	05/02/25 07:07
Total/NA	Analysis	8015M/D		1	25508	AT	EET ALB	05/05/25 13:14
Total/NA	Prep	5030C			25383	JE	EET ALB	05/02/25 07:07
Total/NA	Analysis	8021B		1	25509	AT	EET ALB	05/05/25 13:14
Total/NA	Prep	SHAKE			25425	MI	EET ALB	05/02/25 12:56
Total/NA	Analysis	8015M/D		1	25385	MI	EET ALB	05/02/25 21:15
Total/NA	Prep	300_Prep			25451	JT	EET ALB	05/04/25 13:07
Total/NA	Analysis	300.0		20	25454	RC	EET ALB	05/05/25 08:55

Client Sample ID: BH25-02 1.0'

Date Collected: 04/28/25 09:55

Date Received: 05/01/25 08:10

Lab Sample ID: 885-24056-2

**Matrix: Solid** 

Batch Dilution Batch Batch Prepared **Prep Type** Type Method Run Factor Number Analyst Lab or Analyzed Total/NA 5030C EET ALB 05/02/25 07:07 Prep 25383 JΕ Total/NA 8015M/D 05/05/25 14:19 Analysis 1 25508 AT **EET ALB** Total/NA 5030C 05/02/25 07:07 Prep 25383 JE **EET ALB** 25509 AT Total/NA Analysis 8021B 1 **EET ALB** 05/05/25 14:19 Total/NA SHAKE **EET ALB** 05/02/25 12:56 Prep 25425 MI Total/NA Analysis 8015M/D 1 25385 MI **EET ALB** 05/02/25 21:48 EET ALB Total/NA Prep 300\_Prep 25451 JT 05/04/25 13:07 Total/NA Analysis 300.0 20 25454 RC **EET ALB** 05/05/25 09:25

Client Sample ID: BH25-04 0.0'

Date Collected: 04/28/25 13:10

Date Received: 05/01/25 08:10

_	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			25383	JE	EET ALB	05/02/25 07:07
Total/NA	Analysis	8015M/D		1	25508	AT	EET ALB	05/05/25 15:24
Total/NA	Prep	5030C			25383	JE	EET ALB	05/02/25 07:07
Total/NA	Analysis	8021B		1	25509	AT	EET ALB	05/05/25 15:24
Total/NA	Prep	SHAKE			25425	MI	EET ALB	05/02/25 12:56
Total/NA	Analysis	8015M/D		1	25385	MI	EET ALB	05/02/25 21:58
Total/NA	Prep	300_Prep			25451	JT	EET ALB	05/04/25 13:07
Total/NA	Analysis	300.0		20	25454	RC	EET ALB	05/05/25 10:14

Client Sample ID: BH25-04 1.0'

Date Collected: 04/28/25 13:20

Date Received: 05/01/25 08:10

Lab	Sample	ID: 885-24056-4	
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Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			25383	JE	EET ALB	05/02/25 07:07
Total/NA	Analysis	8015M/D		1	25508	AT	EET ALB	05/05/25 15:46

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Matrix: Solid

Client: Vertex

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Client Sample ID: BH25-04 1.0'

Date Collected: 04/28/25 13:20 Date Received: 05/01/25 08:10 Lab Sample ID: 885-24056-4

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			25383	JE	EET ALB	05/02/25 07:07
Total/NA	Analysis	8021B		1	25509	AT	EET ALB	05/05/25 15:46
Total/NA	Prep	SHAKE			25425	MI	EET ALB	05/02/25 12:56
Total/NA	Analysis	8015M/D		1	25385	MI	EET ALB	05/02/25 22:09
Total/NA	Prep	300_Prep			25451	JT	EET ALB	05/04/25 13:07
Total/NA	Analysis	300.0		20	25454	RC	EET ALB	05/05/25 10:24

Client Sample ID: BH25-05 0.0'

Date Collected: 04/28/25 13:25 Date Received: 05/01/25 08:10 Lab Sample ID: 885-24056-5

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			25383	JE	EET ALB	05/02/25 07:07
Total/NA	Analysis	8015M/D		1	25508	AT	EET ALB	05/05/25 16:07
Total/NA	Prep	5030C			25383	JE	EET ALB	05/02/25 07:07
Total/NA	Analysis	8021B		1	25509	AT	EET ALB	05/05/25 16:07
Total/NA	Prep	SHAKE			25425	MI	EET ALB	05/02/25 12:56
Total/NA	Analysis	8015M/D		2	25385	MI	EET ALB	05/02/25 22:20
Total/NA	Prep	300_Prep			25451	JT	EET ALB	05/04/25 13:07
Total/NA	Analysis	300.0		20	25454	RC	EET ALB	05/05/25 10:33

Client Sample ID: BH25-05 1.0'

Date Collected: 04/28/25 14:00 Date Received: 05/01/25 08:10 Lab Sample ID: 885-24056-6

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			25383	JE	EET ALB	05/02/25 07:07
Total/NA	Analysis	8015M/D		1	25508	AT	EET ALB	05/05/25 16:29
Total/NA	Prep	5030C			25383	JE	EET ALB	05/02/25 07:07
Total/NA	Analysis	8021B		1	25509	AT	EET ALB	05/05/25 16:29
Total/NA	Prep	SHAKE			25425	MI	EET ALB	05/02/25 12:56
Total/NA	Analysis	8015M/D		1	25545	MI	EET ALB	05/06/25 16:19
Total/NA	Prep	300_Prep			25451	JT	EET ALB	05/04/25 13:07
Total/NA	Analysis	300.0		20	25454	RC	EET ALB	05/05/25 10:43

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Eurofins Albuquerque

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## **Accreditation/Certification Summary**

Client: Vertex Job ID: 885-24056-1

Project/Site: B Lee State #006

### **Laboratory: Eurofins Albuquerque**

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority New Mexico		am	Identification Number	Expiration Date 02-27-26		
			NM9425, NM0901			
• •	are included in this report, bu	it the laboratory is not certif	ied by the governing authority. This li	st may include analytes		
Analysis Method	Prep Method	Matrix	Analyte			
300.0	300_Prep	Solid	Chloride			
8015M/D	5030C	Solid	Gasoline Range Organics [C6 - C10]			
8015M/D	SHAKE	Solid	Diesel Range Organics [0	C10-C28]		
8015M/D	SHAKE	Solid	Motor Oil Range Organic	s [C28-C40]		
8021B	5030C	Solid	Benzene			
8021B	5030C	Solid	Ethylbenzene			
8021B	5030C	Solid	Toluene			
8021B	5030C	Solid	Xylenes, Total			
)regon	NELA	P	NM100001	02-26-26		

Eurofins Albuquerque

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ema	ail or	Fax#:				Project Mana	ager:		=	0					SO4			int)					
QA	QC F	Package:				Sally C	arttar		TMB's (8021)	/ DRO / MRO)	PCB's		MS		PO4, S			Abse					
	Stan	dard		☐ Level 4 (Full \	/alidation)	SCartto	r & vertex re	Source (Om	B's (	80	2 PC		8270SIMS		, P(			ent/					
				mpliance		Sampler:			₽	0/0	808	504.1)			NO <sub>2</sub> ,		2	(Present/Absent)					
		(Type)	□ Other			On Ice: # of Coolers:	G	□ No Chucky	E/	GRO	des/	d 50	10 or	als	03,		VO/	η (F					
		( ) [ - ] -				Cooler Temp		7+4-2=1-9 (°C)	M	5D(	stici	(Method	, 83	Me	Z	.(AC	(Semi-VOA)	Coliform					
Date	e	Time	Matrix	Sample Name	e	Container Type and #	Preservative Type	HEAL No.	STEX)	TPH)8015D(GRO /	8081 Pesticides/8082	EDB (Me	PAHs by 8310	RCRA 8 Metals	C) F, Br, NO3,	8260 (VOA)	8270 (Se	Total Co					
		0940	Soil	BH25-02	0.0	402	ICE		1	Y	~				7		-						$\top$
7	9 5	0955	1	BH25-02	1.0	1	1															T	$\dagger$
		1310		BH25-04	0.0			······································														+	$\dagger$
		1320		BH25-04	1.6				H			$\dashv$								$\dashv$	$\top$	+	+
H		1325		BH25-05								_	-		+				$\dashv$	+	+	+	+
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30	150	4900	MCAA	unneo			1 course	5liks 8:10		SM	inc	xii.	O V	crte	2xre	2500	rce.	com					

## **Login Sample Receipt Checklist**

Client: Vertex Job Number: 885-24056-1

Login Number: 24056 List Source: Eurofins Albuquerque

List Number: 1

Creator: Dominguez, Desiree

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Refer to Job Narrative for details.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	N/A	

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**Environment Testing** 

# **ANALYTICAL REPORT**

# PREPARED FOR

Attn: Ms. Sally Carttar Vertex 3101 Boyd Dr Carlsbad, New Mexico 88220

Generated 5/15/2025 10:34:13 AM

# **JOB DESCRIPTION**

B Lee State #006

# **JOB NUMBER**

885-24681-1

Eurofins Albuquerque 4901 Hawkins NE Albuquerque NM 87109

# **Eurofins Albuquerque**

## **Job Notes**

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

# **Authorization**

Generated 5/15/2025 10:34:13 AM

Authorized for release by Cheyenne Cason, Project Manager cheyenne.cason@et.eurofinsus.com (505)338-8812

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Client: Vertex
Laboratory Job ID: 885-24681-1
Project/Site: B Lee State #006

**Table of Contents** 

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### **Definitions/Glossary**

Client: Vertex Job ID: 885-24681-1

Project/Site: B Lee State #006

**Qualifiers** 

GC Semi VOA

Qualifier Description

S1+ Surrogate recovery exceeds control limits, high biased.

**Glossary** 

Abbreviation These commonly used abbreviations may or may not be present in this report.

☼ Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

#### **Case Narrative**

Client: Vertex Job ID: 885-24681-1

Project: B Lee State #006

Job ID: 885-24681-1 Eurofins Albuquerque

#### Job Narrative 885-24681-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these
  situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise
  specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

#### Receipt

The samples were received on 5/10/2025 7:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.7°C.

#### Gasoline Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### **Diesel Range Organics**

Method 8015D\_DRO: Surrogate recovery for the following sample was outside the upper control limit: (CCV 885-26099/82). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8015D\_DRO: Surrogate recovery for the following samples were outside the upper control limit: BH25-11 1' (885-24681-3), (LCS 885-26029/2-A) and (MB 885-26029/1-A). This sample did not contain any target analytes; therefore, re-extraction and/or reanalysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Albuquerque

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Client: Vertex Job ID: 885-24681-1

Project/Site: B Lee State #006

Di-n-octyl phthalate (Surr)

Analyte

Chloride

Method: EPA 300.0 - Anions, Ion Chromatography

Client Sample ID: BH25-08 1'

Lab Sample ID: 885-24681-1

05/13/25 11:32

Prepared

05/12/25 17:09

D

05/14/25 23:29

Analyzed

05/13/25 11:57

Dil Fac

20

Date Collected: 05/08/25 09:00 Date Received: 05/10/25 07:30 Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		05/12/25 14:05	05/13/25 23:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		15 - 150			05/12/25 14:05	05/13/25 23:08	1
- Method: SW846 8021B - Volatile (	Organic Comp	ounds (GC)	)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/12/25 14:05	05/13/25 23:08	1
Ethylbenzene	ND		0.048	mg/Kg		05/12/25 14:05	05/13/25 23:08	1
Toluene	ND		0.048	mg/Kg		05/12/25 14:05	05/13/25 23:08	1
Xylenes, Total	ND		0.096	mg/Kg		05/12/25 14:05	05/13/25 23:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		15 - 150			05/12/25 14:05	05/13/25 23:08	1
- Method: SW846 8015M/D - Diesel	Range Organ	ics (DRO) (	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		05/13/25 11:32	05/14/25 23:29	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		05/13/25 11:32	05/14/25 23:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

62 - 134

RL

60

Unit

mg/Kg

121

ND

Result Qualifier

Client: Vertex Job ID: 885-24681-1

Project/Site: B Lee State #006

Client Sample ID: BH25-09 0.5'

Lab Sample ID: 885-24681-2

Matrix: Solid

Dil Fac

20

Analyzed

05/13/25 12:07

Date Collected: 05/08/25 10:05 Date Received: 05/10/25 07:30

Analyte

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		05/12/25 14:05	05/13/25 23:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		15 - 150			05/12/25 14:05	05/13/25 23:30	1
Method: SW846 8021B - Volatile (	Organic Comp	ounds (GC)	)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/12/25 14:05	05/13/25 23:30	1
Ethylbenzene	ND		0.048	mg/Kg		05/12/25 14:05	05/13/25 23:30	1
Toluene	ND		0.048	mg/Kg		05/12/25 14:05	05/13/25 23:30	1
Xylenes, Total	ND		0.095	mg/Kg		05/12/25 14:05	05/13/25 23:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		15 - 150			05/12/25 14:05	05/13/25 23:30	1
Method: SW846 8015M/D - Diese	Range Organ	ics (DRO) (	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7	mg/Kg		05/13/25 11:32	05/14/25 23:41	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		05/13/25 11:32	05/14/25 23:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	115		62 - 134			05/13/25 11:32	05/14/25 23:41	

RL

60

Result Qualifier

810

Unit

mg/Kg

Prepared

05/12/25 17:09

Client: Vertex Job ID: 885-24681-1

Project/Site: B Lee State #006

Client Sample ID: BH25-11 1'

Lab Sample ID: 885-24681-3

Matrix: Solid

Dil Fac

20

Analyzed

05/13/25 12:18

Date Collected: 05/08/25 13:25 Date Received: 05/10/25 07:30

Analyte

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		05/12/25 14:05	05/13/25 23:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		15 - 150			05/12/25 14:05	05/13/25 23:52	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)	)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/12/25 14:05	05/13/25 23:52	1
Ethylbenzene	ND		0.050	mg/Kg		05/12/25 14:05	05/13/25 23:52	1
Toluene	ND		0.050	mg/Kg		05/12/25 14:05	05/13/25 23:52	1
Xylenes, Total	ND		0.10	mg/Kg		05/12/25 14:05	05/13/25 23:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		15 - 150			05/12/25 14:05	05/13/25 23:52	
Method: SW846 8015M/D - Diese	Range Organ	ics (DRO) (	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5	mg/Kg		05/13/25 11:32	05/14/25 23:53	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		05/13/25 11:32	05/14/25 23:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	141	S1+	62 - 134			05/13/25 11:32	05/14/25 23:53	

RL

60

Result Qualifier

ND

Unit

mg/Kg

Prepared

05/12/25 17:09

Client: Vertex Job ID: 885-24681-1

Project/Site: B Lee State #006

Date Received: 05/10/25 07:30

Client Sample ID: BH25-12 1' Date Collected: 05/08/25 10:00

Lab Sample ID: 885-24681-4

Matrix: Solid

ap	Sample	יטו:	000-24001	-4
			Madeline Cal	1.4

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)											
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac			
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		05/12/25 14:05	05/14/25 00:14	1			

%Recovery Qualifier Limits Prepared Analyzed Dil Fac Surrogate 15 - 150 05/12/25 14:05 05/14/25 00:14 4-Bromofluorobenzene (Surr) 108

Method: SW846 8021B - Vo	olatile Organic Compounds (GC	)					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND ND	0.025	mg/Kg		05/12/25 14:05	05/14/25 00:14	
Ethylbenzene	ND	0.049	mg/Kg		05/12/25 14:05	05/14/25 00:14	,
Toluene	ND	0.049	mg/Kg		05/12/25 14:05	05/14/25 00:14	,
Xylenes, Total	ND	0.099	mg/Kg		05/12/25 14:05	05/14/25 00:14	

%Recovery Qualifier Limits Surrogate Prepared Analyzed Dil Fac 15 - 150 05/12/25 14:05 05/14/25 00:14 4-Bromofluorobenzene (Surr) 98

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	12		9.9	mg/Kg		05/13/25 11:32	05/15/25 00:05	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		05/13/25 11:32	05/15/25 00:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	124		62 - 134			05/13/25 11:32	05/15/25 00:05	1

Method: EPA 300.0 - Anions, Ion Chromatography Unit Analyte Result Qualifier RLDil Fac Prepared Analyzed 05/12/25 17:09 05/13/25 12:28 Chloride 78 60 mg/Kg 20

Prep Batch: 25955

05/13/25 19:31

Job ID: 885-24681-1

05/12/25 14:05

Project/Site: B Lee State #006

Client: Vertex

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-25955/1-A Client Sample ID: Method Blank Prep Type: Total/NA

**Matrix: Solid** Analysis Batch: 26052

Gasoline Range Organics [C6 - C10]

MB MB Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac 5.0

mg/Kg

MB MB

ND

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 104 15 - 150 05/12/25 14:05 05/13/25 19:31

Lab Sample ID: LCS 885-25955/2-A Client Sample ID: Lab Control Sample Prep Type: Total/NA

**Matrix: Solid** 

Analysis Batch: 26052

Prep Batch: 25955 Spike LCS LCS %Rec

Analyte Added Result Qualifier Unit %Rec Limits 25.0 29.5 118 Gasoline Range Organics [C6 mg/Kg 70 - 130

C10]

LCS LCS

Surrogate %Recovery Qualifier Limits 15 - 150 4-Bromofluorobenzene (Surr) 225

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-25955/1-A Client Sample ID: Method Blank Prep Type: Total/NA

**Matrix: Solid** 

Analysis Batch: 26053

MB MB Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac ND 0.025 05/12/25 14:05 05/13/25 19:31 Benzene mg/Kg Ethylbenzene ND 0.050 mg/Kg 05/12/25 14:05 05/13/25 19:31 Toluene NΠ 0.050 05/12/25 14:05 05/13/25 19:31 mg/Kg Xylenes, Total ND 0.10 mg/Kg 05/12/25 14:05 05/13/25 19:31

MB MB

Surrogate %Recovery Qualifier Limits Dil Fac Prepared Analyzed 4-Bromofluorobenzene (Surr) 15 - 150 05/12/25 14:05 05/13/25 19:31 94

Lab Sample ID: LCS 885-25955/3-A

**Matrix: Solid** 

**Analysis Batch: 26053** 

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 25955

Prep Batch: 25955

		Spike	LUS	LUS				%Rec	
	Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
	Benzene	1.00	1.01		mg/Kg		101	70 - 130	
	Ethylbenzene	1.00	1.02		mg/Kg		102	70 - 130	
	m,p-Xylene	2.00	2.06		mg/Kg		103	70 - 130	
	o-Xylene	1.00	1.04		mg/Kg		104	70 - 130	
	Toluene	1.00	0.998		mg/Kg		100	70 - 130	
	Xylenes, Total	3.00	3.10		mg/Kg		103	70 - 130	
ı									

LCS LCS

Surrogate %Recovery Qualifier Limits 15 - 150 4-Bromofluorobenzene (Surr) 96

Client: Vertex Job ID: 885-24681-1

Project/Site: B Lee State #006

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-26029/1-A **Matrix: Solid** 

Lab Sample ID: LCS 885-26029/2-A

Analysis Batch: 26099

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 26029

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Diesel Range Organics [C10-C28] ND 10 mg/Kg 05/13/25 11:32 05/14/25 19:24 Motor Oil Range Organics [C28-C40] ND 50 mg/Kg 05/13/25 11:32 05/14/25 19:24

MB MB

MB MB

%Recovery Qualifier Limits Prepared Dil Fac Surrogate Analyzed Di-n-octyl phthalate (Surr) 195 S1+ 62 - 134 05/13/25 11:32 05/14/25 19:24

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 26029

Prep Batch: 25976

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits Diesel Range Organics 50.0 71.2 142 51 - 148 mg/Kg

[C10-C28]

**Matrix: Solid** 

**Analysis Batch: 26099** 

LCS LCS

Surrogate %Recovery Qualifier Limits Di-n-octyl phthalate (Surr) 155 S1+ 62 - 134

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-25976/1-A Client Sample ID: Method Blank

**Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 25989** Prep Batch: 25976

мв мв

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Chloride ND 1.5 mg/Kg 05/12/25 17:09 05/13/25 09:53

Lab Sample ID: LCS 885-25976/2-A Client Sample ID: Lab Control Sample **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 25989

LCS LCS Spike %Rec

Analyte Added Result Qualifier Unit D %Rec Limits Chloride 15.0 14.6 98 90 - 110 mg/Kg

## **QC Association Summary**

Client: Vertex Job ID: 885-24681-1

Project/Site: B Lee State #006

**GC VOA** 

Prep Batch: 25955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
885-24681-1	BH25-08 1'	Total/NA	Solid	5030C	_
885-24681-2	BH25-09 0.5'	Total/NA	Solid	5030C	
885-24681-3	BH25-11 1'	Total/NA	Solid	5030C	
885-24681-4	BH25-12 1'	Total/NA	Solid	5030C	
MB 885-25955/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-25955/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-25955/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Analysis Batch: 26052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24681-1	BH25-08 1'	Total/NA	Solid	8015M/D	25955
885-24681-2	BH25-09 0.5'	Total/NA	Solid	8015M/D	25955
885-24681-3	BH25-11 1'	Total/NA	Solid	8015M/D	25955
885-24681-4	BH25-12 1'	Total/NA	Solid	8015M/D	25955
MB 885-25955/1-A	Method Blank	Total/NA	Solid	8015M/D	25955
LCS 885-25955/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	25955

**Analysis Batch: 26053** 

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24681-1	BH25-08 1'	Total/NA	Solid	8021B	25955
885-24681-2	BH25-09 0.5'	Total/NA	Solid	8021B	25955
885-24681-3	BH25-11 1'	Total/NA	Solid	8021B	25955
885-24681-4	BH25-12 1'	Total/NA	Solid	8021B	25955
MB 885-25955/1-A	Method Blank	Total/NA	Solid	8021B	25955
LCS 885-25955/3-A	Lab Control Sample	Total/NA	Solid	8021B	25955

### **GC Semi VOA**

Prep Batch: 26029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24681-1	BH25-08 1'	Total/NA	Solid	SHAKE	
885-24681-2	BH25-09 0.5'	Total/NA	Solid	SHAKE	
885-24681-3	BH25-11 1'	Total/NA	Solid	SHAKE	
885-24681-4	BH25-12 1'	Total/NA	Solid	SHAKE	
MB 885-26029/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-26029/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

**Analysis Batch: 26099** 

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24681-1	BH25-08 1'	Total/NA	Solid	8015M/D	26029
885-24681-2	BH25-09 0.5'	Total/NA	Solid	8015M/D	26029
885-24681-3	BH25-11 1'	Total/NA	Solid	8015M/D	26029
885-24681-4	BH25-12 1'	Total/NA	Solid	8015M/D	26029
MB 885-26029/1-A	Method Blank	Total/NA	Solid	8015M/D	26029
LCS 885-26029/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	26029

### HPLC/IC

Prep Batch: 25976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24681-1	BH25-08 1'	Total/NA	Solid	300_Prep	
885-24681-2	BH25-09 0.5'	Total/NA	Solid	300_Prep	

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5/15/2025

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# **QC Association Summary**

Client: Vertex Job ID: 885-24681-1

Project/Site: B Lee State #006

## **HPLC/IC** (Continued)

### Prep Batch: 25976 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24681-3	BH25-11 1'	Total/NA	Solid	300_Prep	
885-24681-4	BH25-12 1'	Total/NA	Solid	300_Prep	
MB 885-25976/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-25976/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

#### Analysis Batch: 25989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24681-1	BH25-08 1'	Total/NA	Solid	300.0	25976
885-24681-2	BH25-09 0.5'	Total/NA	Solid	300.0	25976
885-24681-3	BH25-11 1'	Total/NA	Solid	300.0	25976
885-24681-4	BH25-12 1'	Total/NA	Solid	300.0	25976
MB 885-25976/1-A	Method Blank	Total/NA	Solid	300.0	25976
LCS 885-25976/2-A	Lab Control Sample	Total/NA	Solid	300.0	25976

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Released to Imaging: 8/20/2025 11:23:00 AM

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Job ID: 885-24681-1

Project/Site: B Lee State #006

Client: Vertex

Client Sample ID: BH25-08 1'

Date Collected: 05/08/25 09:00

Lab Sample ID: 885-24681-1

**Matrix: Solid** 

Date Received: 05/10/25 07:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			25955	JP	EET ALB	05/12/25 14:05
Total/NA	Analysis	8015M/D		1	26052	AT	EET ALB	05/13/25 23:08
Total/NA	Prep	5030C			25955	JP	EET ALB	05/12/25 14:05
Total/NA	Analysis	8021B		1	26053	AT	EET ALB	05/13/25 23:08
Total/NA	Prep	SHAKE			26029	MI	EET ALB	05/13/25 11:32
Total/NA	Analysis	8015M/D		1	26099	MI	EET ALB	05/14/25 23:29
Total/NA	Prep	300_Prep			25976	DL	EET ALB	05/12/25 17:09
Total/NA	Analysis	300.0		20	25989	DL	EET ALB	05/13/25 11:57

Client Sample ID: BH25-09 0.5'

Date Collected: 05/08/25 10:05

Date Received: 05/10/25 07:30

Lab Sample ID: 885-24681-2

**Matrix: Solid** 

Batch Dilution Batch Batch Prepared **Prep Type** Type Method Run Factor Number Analyst Lab or Analyzed Total/NA 5030C EET ALB 05/12/25 14:05 Prep 25955 Total/NA 8015M/D 05/13/25 23:30 Analysis 1 26052 AT **EET ALB** Total/NA 5030C 05/12/25 14:05 Prep 25955 JP **EET ALB** Total/NA Analysis 8021B 1 26053 AT **EET ALB** 05/13/25 23:30 Total/NA SHAKE **EET ALB** 05/13/25 11:32 Prep 26029 MI Total/NA Analysis 8015M/D 1 26099 MI **EET ALB** 05/14/25 23:41 EET ALB Total/NA Prep 300\_Prep 25976 DL 05/12/25 17:09 Total/NA Analysis 300.0 20 25989 DL **EET ALB** 05/13/25 12:07

Client Sample ID: BH25-11 1'

Date Collected: 05/08/25 13:25

Date Received: 05/10/25 07:30

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			25955	JP	EET ALB	05/12/25 14:05
Total/NA	Analysis	8015M/D		1	26052	AT	EET ALB	05/13/25 23:52
Total/NA	Prep	5030C			25955	JP	EET ALB	05/12/25 14:05
Total/NA	Analysis	8021B		1	26053	AT	EET ALB	05/13/25 23:52
Total/NA	Prep	SHAKE			26029	MI	EET ALB	05/13/25 11:32
Total/NA	Analysis	8015M/D		1	26099	MI	EET ALB	05/14/25 23:53
Total/NA	Prep	300_Prep			25976	DL	EET ALB	05/12/25 17:09
Total/NA	Analysis	300.0		20	25989	DL	EET ALB	05/13/25 12:18

Client Sample ID: BH25-12 1'

Date Collected: 05/08/25 10:00

Date Received: 05/10/25 07:30

_ab Sample ID: 885-24681	-4
--------------------------	----

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			25955	JP	EET ALB	05/12/25 14:05
Total/NA	Analysis	8015M/D		1	26052	AT	EET ALB	05/14/25 00:14

### Lab Chronicle

Client: Vertex Job ID: 885-24681-1

Project/Site: B Lee State #006

Client Sample ID: BH25-12 1'

Lab Sample ID: 885-24681-4

Matrix: Solid

Date Collected: 05/08/25 10:00 Date Received: 05/10/25 07:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			25955	JP	EET ALB	05/12/25 14:05
Total/NA	Analysis	8021B		1	26053	AT	EET ALB	05/14/25 00:14
Total/NA	Prep	SHAKE			26029	MI	EET ALB	05/13/25 11:32
Total/NA	Analysis	8015M/D		1	26099	MI	EET ALB	05/15/25 00:05
Total/NA	Prep	300_Prep			25976	DL	EET ALB	05/12/25 17:09
Total/NA	Analysis	300.0		20	25989	DL	EET ALB	05/13/25 12:28

#### Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

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## **Accreditation/Certification Summary**

Client: Vertex Job ID: 885-24681-1

Project/Site: B Lee State #006

### **Laboratory: Eurofins Albuquerque**

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Progra	am	Identification Number	<b>Expiration Date</b>			
lew Mexico			NM9425, NM0901	02-27-26			
0 ,	are included in this report, bu	it the laboratory is not certif	ied by the governing authority. This lis	t may include analytes			
Analysis Method	Prep Method	Matrix	Analyte				
300.0	300_Prep	Solid	Chloride				
8015M/D	5030C	Solid	Gasoline Range Organics	rganics [C6 - C10]			
8015M/D	SHAKE	Solid	Diesel Range Organics [C	Diesel Range Organics [C10-C28]			
8015M/D	SHAKE	Solid	Motor Oil Range Organics	[C28-C40]			
8021B	5030C	Solid	Benzene				
8021B	5030C	Solid	Ethylbenzene				
8021B	5030C	Solid	Toluene				
8021B	5030C	Solid	Xylenes, Total				
)regon	NELAI	<b>5</b>	NM100001	02-26-26			

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				Project Nam	e:						www	v.hal	lenvi	ironr	nent	tal.com	۱ ا	B	
Mailing Address: (On File)		B Lee State #006				4901 Hawkins NE - Albuquerque, NM 8710								885-24681 COC					
				Project #:				Τe	el. 50	5-34	15-39	975	F	ax	505-	-345-4	107		
Phone	#:	575-	343-0926	25A-01934					1	-									
email o	r Fax#:	-		Project Mana	ager:			<u></u>					SO4			(F)			
QA/QC	Package:			Sally Cartta	r		021	MRC	3,8		SI SI		t, S(			Ser			
□ Star	ndard		☐ Level 4 (Full Validation)	SCarttar@ve	ertexresource.	com	_ (8	0	PCB's		SSIN		PO4,			IKA			
Accred	itation:	□ Az Co	ompliance	Sampler:	Sharon	Minnix	TMB's (8021)	H	082	<del>-</del>	8270SIMS		NO <sub>2</sub> ,			esel			
□ NEL		□ Other		On Ice:	Yes Yes	□ No mac		RO	es/8	504.1)	5	<u>s</u>			OA)	P.			
	(Type) _			# of Coolers:		<u> </u>	/ MTBE /	D)Q	licid	poq	8310	/leta	2	₹	ni-V	form			
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	No.	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082	EDB (Method	PAHs by	RCRA 8 Metals	CF, Br, NO3,	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)			
5.08.25	9:00	Soil	BH25-08 1'	1, 4oz jar	ICE		Х	Х					Х						
5.08.25	10:05	Soil	BH25-09 0.5'	1, 4oz jar	ICE		X	х					х						
5.08.25	13:25	Soil	BH25-11 1'	1, 4oz jar	ICE		Х	х					х						
5.08.25	10:00	Soil	BH25-12 1'	1, 4oz jar	ICE														
							-											$\vdash$	+
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																-	-		
Date:	Time:	Relinquish	ed by:	Received by:	Via:	, Date Time	Rer	nark	s:										4
Date:	1100	Sho	Λ	Chin		5/125 1100	Dire	ect B	ill to							t Buck		Ohana :-	Minni
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## **Login Sample Receipt Checklist**

Client: Vertex Job Number: 885-24681-1

Login Number: 24681 List Source: Eurofins Albuquerque

List Number: 1

Creator: Casarrubias, Tracy

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	True	

**Environment Testing** 

# **ANALYTICAL REPORT**

# PREPARED FOR

Attn: Ms. Sally Carttar Vertex 3101 Boyd Dr Carlsbad, New Mexico 88220

Generated 5/19/2025 7:53:15 PM

# **JOB DESCRIPTION**

B Lee State #006

# **JOB NUMBER**

885-24757-1

Eurofins Albuquerque 4901 Hawkins NE Albuquerque NM 87109

# **Eurofins Albuquerque**

## **Job Notes**

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

## **Authorization**

Generated 5/19/2025 7:53:15 PM

Authorized for release by Cheyenne Cason, Project Manager cheyenne.cason@et.eurofinsus.com (505)338-8812

Page 2 of 19 5/19/2025

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Client: Vertex
Laboratory Job ID: 885-24757-1
Project/Site: B Lee State #006

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## **Definitions/Glossary**

Client: Vertex Job ID: 885-24757-1

Project/Site: B Lee State #006

## **Glossary**

Abbreviation	These commonly used abbreviations may or may not be present in this report.						
<b>*</b>	Listed under the "D" column to designate that the result is reported on a dry weight basis						
%R	Percent Recovery						
CFL	Contains Free Liquid						
CFU	Colony Forming Unit						
CNF	Contains No Free Liquid						
DER	Duplicate Error Ratio (normalized absolute difference)						
Dil Fac	Dilution Factor						
DL	Detection Limit (DoD/DOE)						
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample						
DLC	Decision Level Concentration (Radiochemistry)						
EDL	Estimated Detection Limit (Dioxin)						
LOD	Limit of Detection (DoD/DOE)						
LOQ	Limit of Quantitation (DoD/DOE)						
MCL	EPA recommended "Maximum Contaminant Level"						
MDA	Minimum Detectable Activity (Radiochemistry)						
MDC	Minimum Detectable Concentration (Radiochemistry)						

MDL Method Detection Limit MLMinimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present PQL Practical Quantitation Limit

**PRES** Presumptive **Quality Control** QC

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

#### **Case Narrative**

Client: Vertex Job ID: 885-24757-1

Project: B Lee State #006

Job ID: 885-24757-1 Eurofins Albuquerque

#### Job Narrative 885-24757-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these
  situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise
  specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

#### Receipt

The samples were received on 5/13/2025 7:50 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.0°C.

#### Gasoline Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### **Diesel Range Organics**

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Client: Vertex Job ID: 885-24757-1

Project/Site: B Lee State #006

Client Sample ID: BH25-13 0'

Lab Sample ID: 885-24757-1

Date Collected: 05/09/25 08:40 Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		05/13/25 14:11	05/17/25 00:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104	15 - 150			05/13/25 14:11	05/17/25 00:51	1	
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)	)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/13/25 14:11	05/17/25 00:51	1
Ethylbenzene	ND		0.050	mg/Kg		05/13/25 14:11	05/17/25 00:51	1
Toluene	ND		0.050	mg/Kg		05/13/25 14:11	05/17/25 00:51	1
Xylenes, Total	ND		0.10	mg/Kg		05/13/25 14:11	05/17/25 00:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		15 - 150			05/13/25 14:11	05/17/25 00:51	1
Method: SW846 8015M/D - Diese	Range Organ	ics (DRO) (	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8	mg/Kg		05/14/25 12:05	05/14/25 23:41	1
Motor Oil Range Organics [C28-C40]	59		49	mg/Kg		05/14/25 12:05	05/14/25 23:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	120		62 - 134			05/14/25 12:05	05/14/25 23:41	1
Method: EPA 300.0 - Anions, Ion	Chromatogran	hv						
Michiga. El A 000.0 - Allions, lon	gp							
Analyte	• .	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

### **Client Sample Results**

Client: Vertex Job ID: 885-24757-1

Project/Site: B Lee State #006

Date Received: 05/13/25 07:50

Client Sample ID: BH25-13 1'

Lab Sample ID: 885-24757-2 Date Collected: 05/09/25 08:59

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		05/13/25 14:11	05/17/25 01:56	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	101		<u> 15 - 150</u>			05/13/25 14:11	05/17/25 01:56	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	MD		0.025	mg/Kg		05/13/25 14:11	05/17/25 01:56	1
Ethylbenzene	ND		0.050	mg/Kg		05/13/25 14:11	05/17/25 01:56	1
Toluene	ND		0.050	mg/Kg		05/13/25 14:11	05/17/25 01:56	1
Xylenes, Total	ND		0.099	mg/Kg		05/13/25 14:11	05/17/25 01:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		<u> 15 - 150</u>			05/13/25 14:11	05/17/25 01:56	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8	mg/Kg		05/14/25 12:05	05/15/25 00:04	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		05/14/25 12:05	05/15/25 00:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	129	· <del></del>	62 - 134			05/14/25 12:05	05/15/25 00:04	1

Method: EPA 300.0 - Anions, ion C	nromatograpny						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND —	59	mg/Kg		05/14/25 08:06	05/14/25 19:45	20

Client: Vertex Job ID: 885-24757-1

Project/Site: B Lee State #006

Client Sample ID: BH25-15 1'

Lab Sample ID: 885-24757-3

Date Collected: 05/09/25 09:45 Matrix: Solid Date Received: 05/13/25 07:50

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		05/13/25 14:11	05/17/25 03:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		15 - 150			05/13/25 14:11	05/17/25 03:01	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)	)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/13/25 14:11	05/17/25 03:01	1
Ethylbenzene	ND		0.050	mg/Kg		05/13/25 14:11	05/17/25 03:01	1
Toluene	ND		0.050	mg/Kg		05/13/25 14:11	05/17/25 03:01	1
Xylenes, Total	ND		0.099	mg/Kg		05/13/25 14:11	05/17/25 03:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		15 - 150			05/13/25 14:11	05/17/25 03:01	1
- Method: SW846 8015M/D - Diese	I Range Organ	ics (DRO) (	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3	mg/Kg		05/14/25 12:05	05/15/25 00:28	1
			40	malka		05/14/25 12:05	05/15/25 00:28	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		00/11/20 12:00		'
Motor Oil Range Organics [C28-C40]  Surrogate	ND %Recovery	Qualifier	46  Limits	ilig/Ng		Prepared	Analyzed	Dil Fac
		Qualifier		ilig/Ng			Analyzed 05/15/25 00:28	Dil Fac
Surrogate Di-n-octyl phthalate (Surr)			Limits	ilig/Ng		Prepared		Dil Fac
Surrogate	%Recovery 113 Chromatograp		Limits	unit unit	D	Prepared		Dil Fac

### **Client Sample Results**

Client: Vertex Job ID: 885-24757-1

Project/Site: B Lee State #006

Client Sample ID: BH25-17 0.5'

H25-17 0.5' Lab Sample ID: 885-24757-4

Unit

mg/Kg

Prepared

05/14/25 08:06

Matrix: Solid

Date Collected: 05/09/25 13:10 Date Received: 05/13/25 07:50

Analyte

Chloride

Released to Imaging: 8/20/2025 11:23:00 AM

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		05/13/25 14:11	05/17/25 03:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		15 - 150			05/13/25 14:11	05/17/25 03:22	1
Method: SW846 8021B - Volatile (	Organic Comp	ounds (GC)	)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/13/25 14:11	05/17/25 03:22	1
Ethylbenzene	ND		0.048	mg/Kg		05/13/25 14:11	05/17/25 03:22	1
Toluene	ND		0.048	mg/Kg		05/13/25 14:11	05/17/25 03:22	1
Xylenes, Total	ND		0.095	mg/Kg		05/13/25 14:11	05/17/25 03:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		15 - 150			05/13/25 14:11	05/17/25 03:22	1
Method: SW846 8015M/D - Diesel	Range Organ	ics (DRO) (	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5	mg/Kg		05/14/25 12:05	05/15/25 00:51	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		05/14/25 12:05	05/15/25 00:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	111		62 - 134			05/14/25 12:05	05/15/25 00:51	1

61

Result Qualifier

62

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Dil Fac

20

Analyzed

05/14/25 20:12

Prep Batch: 26055

Prep Batch: 26055

Job ID: 885-24757-1

Project/Site: B Lee State #006

Client: Vertex

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-26055/1-A Client Sample ID: Method Blank Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 26378** 

	MB	MB						
Analyte	Result	Qualifier	RL	Uni	t D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/	Kg	05/13/25 14:11	05/17/25 00:29	1

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 104 15 - 150 05/13/25 14:11 05/17/25 00:29

Lab Sample ID: LCS 885-26055/2-A Client Sample ID: Lab Control Sample Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 26378** 

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits 25.0 30.2 121 70 - 130 mg/Kg Gasoline Range Organics [C6 -

C10]

LCS LCS

%Recovery Qualifier Limits Surrogate 229 15 - 150 4-Bromofluorobenzene (Surr)

Lab Sample ID: 885-24757-1 MS Client Sample ID: BH25-13 0' Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 26378** 

Prep Batch: 26055 Sample Sample Spike MS MS Result Qualifier Added Result Qualifier Analyte Unit D %Rec Limits 25.0 Gasoline Range Organics [C6 -ND 29.0 mg/Kg 116 70 - 130

C10] MS MS

%Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 226 15 - 150

Lab Sample ID: 885-24757-1 MSD

**Matrix: Solid** 

**Analysis Batch: 26378** 

Sample Sample MSD MSD Spike %Rec Result Qualifier Added Qualifier RPD Analyte Result %Rec Limits Unit Gasoline Range Organics [C6 -ND 25.0 29.0 mg/Kg 116

C10]

MSD MSD

%Recovery Surrogate Qualifier Limits 4-Bromofluorobenzene (Surr) 228 15 - 150

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-26055/1-A

Released to Imaging: 8/20/2025 11:23:00 AM

Client Sample ID: Method Blank Matrix: Solid Prep Type: Total/NA **Analysis Batch: 26379** Prep Batch: 26055

MB MB Analyte Result Qualifier RL Unit Dil Fac D Prepared Analyzed 0.025 Benzene ND mg/Kg 05/13/25 14:11 05/17/25 00:29 Ethylbenzene ND 0.050 mg/Kg 05/13/25 14:11 05/17/25 00:29 ND 0.050 05/17/25 00:29 Toluene 05/13/25 14:11 mg/Kg

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Client Sample ID: BH25-13 0' Prep Type: Total/NA

> Prep Batch: 26055 RPD

Lab Sample ID: MB 885-26055/1-A

Client: Vertex Job ID: 885-24757-1

Project/Site: B Lee State #006

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

**Matrix: Solid** 

**Analysis Batch: 26379** 

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 26055

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.10	mg/Kg		05/13/25 14:11	05/17/25 00:29	1

MR MR

MB MB

%Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 95 15 - 150 05/13/25 14:11 05/17/25 00:29

Lab Sample ID: LCS 885-26055/3-A Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 26379

Prep Type: Total/NA

Prep Batch: 26055

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	1.00	0.984		mg/Kg		98	70 - 130	
Ethylbenzene	1.00	1.01		mg/Kg		101	70 - 130	
m,p-Xylene	2.00	2.00		mg/Kg		100	70 - 130	
o-Xylene	1.00	1.01		mg/Kg		101	70 - 130	
Toluene	1.00	0.972		mg/Kg		97	70 - 130	
Xylenes, Total	3.00	3.00		mg/Kg		100	70 - 130	

LCS LCS

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 96 15 - 150

Lab Sample ID: 885-24757-2 MS Client Sample ID: BH25-13 1'

**Matrix: Solid** 

Analysis Batch: 26379

Prep Type: Total/NA Prep Batch: 26055

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	ND		1.00	0.933		mg/Kg		93	70 - 130	
Ethylbenzene	ND		1.00	0.964		mg/Kg		96	70 - 130	
m,p-Xylene	ND		2.00	1.95		mg/Kg		97	70 - 130	
o-Xylene	ND		1.00	0.961		mg/Kg		96	70 - 130	
Toluene	ND		1.00	0.931		mg/Kg		93	70 - 130	
Xylenes, Total	ND		3.00	2.91		mg/Kg		97	70 - 130	

MS MS

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 93 15 - 150

Lab Sample ID: 885-24757-2 MSD Client Sample ID: BH25-13 1'

**Matrix: Solid** 

Analysis Batch: 26379

Prep Type: Total/NA

Prep Batch: 26055

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	ND		0.993	0.901		mg/Kg		91	70 - 130	4	20
Ethylbenzene	ND		0.993	0.932		mg/Kg		94	70 - 130	3	20
m,p-Xylene	ND		1.99	1.89		mg/Kg		95	70 - 130	3	20
o-Xylene	ND		0.993	0.942		mg/Kg		95	70 - 130	2	20
Toluene	ND		0.993	0.907		mg/Kg		91	70 - 130	3	20
Xylenes, Total	ND		2.98	2.83		mg/Kg		95	70 - 130	3	20

Client: Vertex Job ID: 885-24757-1

Project/Site: B Lee State #006

Lab Sample ID: 885-24757-2 MSD

Lab Sample ID: MB 885-26130/1-A

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

**Matrix: Solid** 

Matrix: Solid

**Analysis Batch: 26379** 

**Analysis Batch: 26100** 

MSD MSD

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 15 - 150

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Client Sample ID: BH25-13 1'

Prep Type: Total/NA

Prep Batch: 26055

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 26130

Prep Type: Total/NA

Prep Batch: 26093

Prep Batch: 26093

Prep Batch: 26130

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		05/14/25 11:41	05/14/25 14:13	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		05/14/25 11:41	05/14/25 14:13	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	109		62 - 134			05/14/25 11:41	05/14/25 14:13	1

Lab Sample ID: LCS 885-26130/2-A Client Sample ID: Lab Control Sample Prep Type: Total/NA

Matrix: Solid

Diesel Range Organics

**Analysis Batch: 26100** 

Spike LCS LCS %Rec Added Result Qualifier Unit D %Rec Limits 50.0 45.9 mg/Kg 92 51 - 148

[C10-C28]

Analyte

LCS LCS

%Recovery Qualifier Limits Surrogate Di-n-octyl phthalate (Surr) 104 62 - 134

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-26093/1-A Client Sample ID: Method Blank **Matrix: Solid** 

**Analysis Batch: 26117** 

мв мв Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac 1.5 Chloride ND mg/Kg 05/14/25 08:06 05/14/25 10:54

Lab Sample ID: LCS 885-26093/2-A Client Sample ID: Lab Control Sample **Matrix: Solid** Prep Type: Total/NA

**Analysis Batch: 26117** 

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Chloride 15.0 15.3 mg/Kg 102 90 - 110

### **QC Association Summary**

Client: Vertex Job ID: 885-24757-1

Project/Site: B Lee State #006

**GC VOA** 

Prep Batch: 26055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24757-1	BH25-13 0'	Total/NA	Solid	5030C	
885-24757-2	BH25-13 1'	Total/NA	Solid	5030C	
885-24757-3	BH25-15 1'	Total/NA	Solid	5030C	
885-24757-4	BH25-17 0.5'	Total/NA	Solid	5030C	
MB 885-26055/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-26055/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-26055/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-24757-1 MS	BH25-13 0'	Total/NA	Solid	5030C	
885-24757-1 MSD	BH25-13 0'	Total/NA	Solid	5030C	
885-24757-2 MS	BH25-13 1'	Total/NA	Solid	5030C	
885-24757-2 MSD	BH25-13 1'	Total/NA	Solid	5030C	

**Analysis Batch: 26378** 

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24757-1	BH25-13 0'	Total/NA	Solid	8015M/D	26055
885-24757-2	BH25-13 1'	Total/NA	Solid	8015M/D	26055
885-24757-3	BH25-15 1'	Total/NA	Solid	8015M/D	26055
885-24757-4	BH25-17 0.5'	Total/NA	Solid	8015M/D	26055
MB 885-26055/1-A	Method Blank	Total/NA	Solid	8015M/D	26055
LCS 885-26055/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	26055
885-24757-1 MS	BH25-13 0'	Total/NA	Solid	8015M/D	26055
885-24757-1 MSD	BH25-13 0'	Total/NA	Solid	8015M/D	26055

Analysis Batch: 26379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24757-1	BH25-13 0'	Total/NA	Solid	8021B	26055
885-24757-2	BH25-13 1'	Total/NA	Solid	8021B	26055
885-24757-3	BH25-15 1'	Total/NA	Solid	8021B	26055
885-24757-4	BH25-17 0.5'	Total/NA	Solid	8021B	26055
MB 885-26055/1-A	Method Blank	Total/NA	Solid	8021B	26055
LCS 885-26055/3-A	Lab Control Sample	Total/NA	Solid	8021B	26055
885-24757-2 MS	BH25-13 1'	Total/NA	Solid	8021B	26055
885-24757-2 MSD	BH25-13 1'	Total/NA	Solid	8021B	26055

**GC Semi VOA** 

Analysis Batch: 26100

Lab Sample ID 885-24757-1	Client Sample ID BH25-13 0'	Prep Type Total/NA	Matrix Solid	Method 8015M/D	Prep Batch 26130
885-24757-2	BH25-13 1'	Total/NA	Solid	8015M/D	26130
885-24757-3	BH25-15 1'	Total/NA	Solid	8015M/D	26130
885-24757-4	BH25-17 0.5'	Total/NA	Solid	8015M/D	26130
MB 885-26130/1-A	Method Blank	Total/NA	Solid	8015M/D	26130
LCS 885-26130/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	26130

Prep Batch: 26130

Released to Imaging: 8/20/2025 11:23:00 AM

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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24757-1	BH25-13 0'	Total/NA	Solid	SHAKE	
885-24757-2	BH25-13 1'	Total/NA	Solid	SHAKE	
885-24757-3	BH25-15 1'	Total/NA	Solid	SHAKE	
885-24757-4	BH25-17 0.5'	Total/NA	Solid	SHAKE	

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### **QC Association Summary**

Client: Vertex Job ID: 885-24757-1

Project/Site: B Lee State #006

### GC Semi VOA (Continued)

#### Prep Batch: 26130 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-26130/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-26130/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

#### HPLC/IC

#### Prep Batch: 26093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24757-1	BH25-13 0'	Total/NA	Solid	300_Prep	
885-24757-2	BH25-13 1'	Total/NA	Solid	300_Prep	
885-24757-3	BH25-15 1'	Total/NA	Solid	300_Prep	
885-24757-4	BH25-17 0.5'	Total/NA	Solid	300_Prep	
MB 885-26093/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-26093/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

#### Analysis Batch: 26117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-24757-1	BH25-13 0'	Total/NA	Solid	300.0	26093
885-24757-2	BH25-13 1'	Total/NA	Solid	300.0	26093
885-24757-3	BH25-15 1'	Total/NA	Solid	300.0	26093
885-24757-4	BH25-17 0.5'	Total/NA	Solid	300.0	26093
MB 885-26093/1-A	Method Blank	Total/NA	Solid	300.0	26093
LCS 885-26093/2-A	Lab Control Sample	Total/NA	Solid	300.0	26093

Client: Vertex

Client Sample ID: BH25-13 0'

Date Collected: 05/09/25 08:40

Lab Sample ID: 885-24757-1

Matrix: Solid

Date Received: 05/13/25 07:50

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			26055	AT	EET ALB	05/13/25 14:11
Total/NA	Analysis	8015M/D		1	26378	AT	EET ALB	05/17/25 00:51
Total/NA	Prep	5030C			26055	AT	EET ALB	05/13/25 14:11
Total/NA	Analysis	8021B		1	26379	AT	EET ALB	05/17/25 00:51
Total/NA	Prep	SHAKE			26130	MI	EET ALB	05/14/25 12:05
Total/NA	Analysis	8015M/D		1	26100	EM	EET ALB	05/14/25 23:41
Total/NA	Prep	300_Prep			26093	DL	EET ALB	05/14/25 08:06
Total/NA	Analysis	300.0		20	26117	DL	EET ALB	05/14/25 19:32

Lab Sample ID: 885-24757-2

Client Sample ID: BH25-13 1' Date Collected: 05/09/25 08:59 **Matrix: Solid** 

Date Received: 05/13/25 07:50

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			26055	AT	EET ALB	05/13/25 14:11
Total/NA	Analysis	8015M/D		1	26378	AT	EET ALB	05/17/25 01:56
Total/NA	Prep	5030C			26055	AT	EET ALB	05/13/25 14:11
Total/NA	Analysis	8021B		1	26379	AT	EET ALB	05/17/25 01:56
Total/NA	Prep	SHAKE			26130	MI	EET ALB	05/14/25 12:05
Total/NA	Analysis	8015M/D		1	26100	EM	EET ALB	05/15/25 00:04
Total/NA	Prep	300_Prep			26093	DL	EET ALB	05/14/25 08:06
Total/NA	Analysis	300.0		20	26117	DL	EET ALB	05/14/25 19:45

Client Sample ID: BH25-15 1' Lab Sample ID: 885-24757-3

Date Collected: 05/09/25 09:45 Date Received: 05/13/25 07:50

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			26055	AT	EET ALB	05/13/25 14:11
Total/NA	Analysis	8015M/D		1	26378	AT	EET ALB	05/17/25 03:01
Total/NA	Prep	5030C			26055	AT	EET ALB	05/13/25 14:11
Total/NA	Analysis	8021B		1	26379	AT	EET ALB	05/17/25 03:01
Total/NA	Prep	SHAKE			26130	MI	EET ALB	05/14/25 12:05
Total/NA	Analysis	8015M/D		1	26100	EM	EET ALB	05/15/25 00:28
Total/NA	Prep	300_Prep			26093	DL	EET ALB	05/14/25 08:06
Total/NA	Analysis	300.0		20	26117	DL	EET ALB	05/14/25 19:59

Client Sample ID: BH25-17 0.5' Lab Sample ID: 885-24757-4

Date Collected: 05/09/25 13:10 Date Received: 05/13/25 07:50

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			26055	AT	EET ALB	05/13/25 14:11
Total/NA	Analysis	8015M/D		1	26378	AT	EET ALB	05/17/25 03:22

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**Matrix: Solid** 

**Matrix: Solid** 

#### Lab Chronicle

Client: Vertex Job ID: 885-24757-1

Project/Site: B Lee State #006

Client Sample ID: BH25-17 0.5'

Lab Sample ID: 885-24757-4

Matrix: Solid

Date Collected: 05/09/25 13:10 Date Received: 05/13/25 07:50

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			26055	AT	EET ALB	05/13/25 14:11
Total/NA	Analysis	8021B		1	26379	AT	EET ALB	05/17/25 03:22
Total/NA	Prep	SHAKE			26130	MI	EET ALB	05/14/25 12:05
Total/NA	Analysis	8015M/D		1	26100	EM	EET ALB	05/15/25 00:51
Total/NA	Prep	300_Prep			26093	DL	EET ALB	05/14/25 08:06
Total/NA	Analysis	300.0		20	26117	DL	EET ALB	05/14/25 20:12

#### Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Eurofins Albuquerque

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### **Accreditation/Certification Summary**

Client: Vertex Job ID: 885-24757-1

Project/Site: B Lee State #006

#### **Laboratory: Eurofins Albuquerque**

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Prog	ram	Identification Number	Expiration Date
New Mexico	State	•	NM9425, NM0901	02-27-26
0 ,	are included in this report, I	out the laboratory is not certif	ied by the governing authority. This lis	st may include analytes
Analysis Method	Prep Method	Matrix	Analyte	
300.0	300_Prep	Solid	Chloride	
8015M/D	5030C	Solid	Gasoline Range Organics	[C6 - C10]
8015M/D	SHAKE	Solid	Diesel Range Organics [C	10-C28]
8015M/D	SHAKE	Solid	Motor Oil Range Organics	[C28-C40]
8021B	5030C	Solid	Benzene	
8021B	5030C	Solid	Ethylbenzene	
8021B	5030C	Solid	Toluene	
8021B	5030C	Solid	Xylenes, Total	
Oregon	NEL	AP	NM100001	02-26-26

Eurofins Albuquerque

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Mailing Address:

Phone #:

email or Fax#:

**Chain-of-Custody Record** 

(On File)

575-343-0926

Client: Vertex (bill to Mack Energy, Matt Buckles)

-	Package:			Sally Cartta			(8021)	/ MRO)	S		S		'OS			sent)					12:00:36
□ Star	ndard		□ Level 4 (Full Validation)	SCarttar@ve	ertexresource.	com		2	PCB's		SIM		PO₄,			VAb					1:36
Accred  NEL		□ Az Co	ompliance	Sampler: On Ice: # of Coolers		□ No mgi	TMB /	NO / DR	8081 Pesticides/8082 F	od 504.1)	310 or 8270SIMS	etals	Br, NO <sub>3</sub> , NO <sub>2</sub> , I	(1	i-VOA)	Total Coliform (Present/Absent)					AM
Date	Time	Matrix	Sample Name	Cooler Temp Container Type and #	Preservative Type	+0.2 ₹ 5.0 ° HEAL No.	RIEN/ MTBE	TPH:8015D(GRO	8081 Pestic	EDB (Method	PAHs by 8310	RCRA 8 Metals	CJF, Br,	8260 (VOA)	8270 (Semi-VOA)	Total Colifo					
5.09.25	8:40	Soil	BH25-13 0'	1, 4oz jar	ICE		х	X					Х								
5.09.25	8:59	Soil	BH25-13 1'	1, 4oz jar	ICE		Х	X					Х								
5.09.25	9:45	Soil	BH25-15 1'	1, 4oz jar	ICE		x	X					Х								
5.09.25	13:10	Soil	BH25-17 0.5'	1, 4oz jar	ICE		Х	Х					Х				$\dashv$	$\perp$	$\mp$	$\perp$	
																			<u>+</u>		
																			+		
Date: 5/10/05 Date: 5/10/05	Time:		ON Minnix ed by:	Received by:	Via:	Date Time  Date Time  Date Time	Dir CC (Si	mark ect B Sall Vinni	ill to y Ca	rttar	(SC	artta	r@v	erte	Mat	t Buc	kles con	n), Sh	naron	Minn	Page
	11.0		emitted to Hall Environmental may be sub	contracted to other a	accredited laboratorie	5/13/25		sibility.	Any si	ub-con	itracte	d data	will be	e clear	ly nota	ited on	the an	alytical	report.		92 of 400

X Push 5 Day

HALL ENVIRONMENT

Fax 505-345-4107

(VAbsent)

ANALYSIS LABORA

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

SO4

Tel. 505-345-3975

Turn-Around Time:

B Lee State #006

X Standard

Project Name:

Project #:

25A-01934

Project Manager:

### **Login Sample Receipt Checklist**

Client: Vertex Job Number: 885-24757-1

Login Number: 24757 List Source: Eurofins Albuquerque

List Number: 1

Creator: Casarrubias, Tracy

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	N/A	

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**Environment Testing** 

# **ANALYTICAL REPORT**

### PREPARED FOR

Attn: Ms. Sally Carttar Vertex 3101 Boyd Dr Carlsbad, New Mexico 88220

Generated 5/21/2025 3:25:08 PM

### **JOB DESCRIPTION**

B Lee State #006

## **JOB NUMBER**

885-25054-1

Eurofins Albuquerque 4901 Hawkins NE Albuquerque NM 87109

# **Eurofins Albuquerque**

### **Job Notes**

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

### **Authorization**

Generated 5/21/2025 3:25:08 PM

Authorized for release by Cheyenne Cason, Project Manager cheyenne.cason@et.eurofinsus.com (505)338-8812

Page 2 of 16

Client: Vertex Laboratory Job ID: 885-25054-1 Project/Site: B Lee State #006

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### **Definitions/Glossary**

Client: Vertex Job ID: 885-25054-1

Project/Site: B Lee State #006

**Glossary** 

MDA

MDC

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

Minimum Detectable Activity (Radiochemistry)

Minimum Detectable Concentration (Radiochemistry)

 NEG
 Negative / Absent

 POS
 Positive / Present

 PQL
 Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

#### **Case Narrative**

Client: Vertex Job ID: 885-25054-1

Project: B Lee State #006

Job ID: 885-25054-1 Eurofins Albuquerque

#### Job Narrative 885-25054-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these
  situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise
  specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

#### Receipt

The samples were received on 5/16/2025 7:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.4°C.

#### Gasoline Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### **Diesel Range Organics**

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Albuquerque

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Client: Vertex Job ID: 885-25054-1

Project/Site: B Lee State #006

Client Sample ID: BH25-18 1' Lab Sample ID: 885-25054-1

Date Collected: 05/13/25 08:40 Matrix: Solid

Date Received: 05/16/25 07:45

Released to Imaging: 8/20/2025 11:23:00 AM

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		05/16/25 11:37	05/19/25 16:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		15 - 150			05/16/25 11:37	05/19/25 16:50	1
Method: SW846 8021B - Volatile (	Organic Comp	ounds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/16/25 11:37	05/20/25 14:54	1
Ethylbenzene	ND		0.050	mg/Kg		05/16/25 11:37	05/20/25 14:54	1
Toluene	ND		0.050	mg/Kg		05/16/25 11:37	05/20/25 14:54	1
Xylenes, Total	ND		0.099	mg/Kg		05/16/25 11:37	05/20/25 14:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		15 - 150			05/16/25 11:37	05/20/25 14:54	1
Method: SW846 8015M/D - Diesel	Range Organ	ics (DRO) (0	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		05/16/25 13:35	05/19/25 13:56	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		05/16/25 13:35	05/19/25 13:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	117		62 - 134			05/16/25 13:35	05/19/25 13:56	1

Method: EPA 300.0 - Anions, Ion C	hromatography						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	60	mg/Kg		05/19/25 08:26	05/19/25 17:51	20

Dil Fac

20

Analyzed

05/19/25 18:04

### **Client Sample Results**

Client: Vertex Job ID: 885-25054-1

Project/Site: B Lee State #006

Client Sample ID: BH25-20 0.5'

Lab Sample ID: 885-25054-2 Date Collected: 05/13/25 08:59

Matrix: Solid

Date Received: 05/16/25 07:45

Analyte

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		05/16/25 11:37	05/19/25 17:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		15 - 150			05/16/25 11:37	05/19/25 17:12	1
Method: SW846 8021B - Volatile (	Organic Comp	ounds (GC)	)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/16/25 11:37	05/20/25 15:16	1
Ethylbenzene	ND		0.050	mg/Kg		05/16/25 11:37	05/20/25 15:16	1
Toluene	ND		0.050	mg/Kg		05/16/25 11:37	05/20/25 15:16	1
Xylenes, Total	ND		0.099	mg/Kg		05/16/25 11:37	05/20/25 15:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		15 - 150			05/16/25 11:37	05/20/25 15:16	1
Method: SW846 8015M/D - Diesel	Range Organ	ics (DRO) (	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.5	mg/Kg		05/16/25 13:35	05/19/25 14:07	1
Motor Oil Range Organics [C28-C40]	ND		43	mg/Kg		05/16/25 13:35	05/19/25 14:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	105		62 - 134			05/16/25 13:35	05/19/25 14:07	1

RL

60

Result Qualifier

830

Unit

mg/Kg

Prepared

05/19/25 08:26

### **Client Sample Results**

Client: Vertex Job ID: 885-25054-1

Project/Site: B Lee State #006

Client Sample ID: BH25-21 1'

Lab Sample ID: 885-25054-3

Matrix: Solid

Date Collected: 05/13/25 09:45 Date Received: 05/16/25 07:45

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		05/16/25 11:37	05/19/25 17:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		15 - 150			05/16/25 11:37	05/19/25 17:34	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/16/25 11:37	05/20/25 15:38	1
Ethylbenzene	ND		0.049	mg/Kg		05/16/25 11:37	05/20/25 15:38	1
Toluene	ND		0.049	mg/Kg		05/16/25 11:37	05/20/25 15:38	1
Xylenes, Total	ND		0.099	mg/Kg		05/16/25 11:37	05/20/25 15:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		<u> 15 - 150</u>			05/16/25 11:37	05/20/25 15:38	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8	mg/Kg		05/16/25 13:35	05/19/25 14:18	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		05/16/25 13:35	05/19/25 14:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	121		62 - 134			05/16/25 13:35	05/19/25 14:18	1

Method: EPA 300.0 - Anions, ion C	nromatograpny						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND —	60	mg/Kg		05/19/25 08:26	05/19/25 18:17	20

Client: Vertex Job ID: 885-25054-1

Project/Site: B Lee State #006

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-26341/1-A Client Sample ID: Method Blank Prep Type: Total/NA

**Matrix: Solid** Analysis Batch: 26476

Gasoline Range Organics [C6 - C10]

мв мв Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac

5.0

mg/Kg

05/16/25 11:36

MB MB

ND

Qualifier Surrogate %Recovery Limits Prepared Analyzed Dil Fac 05/16/25 11:36 4-Bromofluorobenzene (Surr) 105 15 - 150 05/19/25 12:51

Lab Sample ID: LCS 885-26341/2-A Client Sample ID: Lab Control Sample

**Matrix: Solid** 

Prep Type: Total/NA Analysis Batch: 26476

Prep Batch: 26341

Prep Batch: 26341

05/19/25 12:51

Spike LCS LCS %Rec

Analyte Added Result Qualifier Unit %Rec Limits 25.0 29.6 118 70 - 130 Gasoline Range Organics [C6 mg/Kg

C10]

LCS LCS

Surrogate %Recovery Qualifier Limits 15 - 150 4-Bromofluorobenzene (Surr) 235

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-26341/1-A Client Sample ID: Method Blank

**Matrix: Solid** 

Prep Type: Total/NA Analysis Batch: 26529 Prep Batch: 26341

MB MB

Analyte	Result	Qualifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	0.025	mg/Kg		05/16/25 11:36	05/20/25 11:18	1
Ethylbenzene	ND	0.050	mg/Kg		05/16/25 11:36	05/20/25 11:18	1
Toluene	ND	0.050	mg/Kg		05/16/25 11:36	05/20/25 11:18	1
Xylenes, Total	ND	0.10	mg/Kg		05/16/25 11:36	05/20/25 11:18	1

MB MB

%Recovery Qualifier Limits Dil Fac Surrogate Prepared Analyzed 15 - 150 05/16/25 11:36 05/20/25 11:18 4-Bromofluorobenzene (Surr) 94

Lab Sample ID: LCS 885-26341/3-A Client Sample ID: Lab Control Sample **Matrix: Solid** Prep Type: Total/NA

**Analysis Batch: 26529** Prep Batch: 26341 Snike

	Spike	LUS	LUS				70Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	1.00	0.880		mg/Kg		88	70 - 130	
Ethylbenzene	1.00	0.901		mg/Kg		90	70 - 130	
m,p-Xylene	2.00	1.84		mg/Kg		92	70 - 130	
o-Xylene	1.00	0.900		mg/Kg		90	70 - 130	
Toluene	1.00	0.885		mg/Kg		89	70 - 130	
Xylenes, Total	3.00	2.74		mg/Kg		91	70 - 130	

LCS LCS

Surrogate %Recovery Qualifier Limits 15 - 150 4-Bromofluorobenzene (Surr) 95

Prep Batch: 26350

Prep Batch: 26350

Prep Type: Total/NA

Prep Type: Total/NA

Client Sample ID: Lab Control Sample

Prep Batch: 26422

Client: Vertex Job ID: 885-25054-1

Project/Site: B Lee State #006

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-26350/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 26453

MB MB Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Diesel Range Organics [C10-C28] ND 10 mg/Kg 05/16/25 13:35 05/19/25 11:49 Motor Oil Range Organics [C28-C40] ND 50 mg/Kg 05/16/25 13:35 05/19/25 11:49

MB MB

Qualifier Limits Prepared Dil Fac Surrogate %Recovery Analyzed Di-n-octyl phthalate (Surr) 111 62 - 134 05/16/25 13:35 05/19/25 11:49

Lab Sample ID: LCS 885-26350/2-A Client Sample ID: Lab Control Sample Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 26453** 

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits **Diesel Range Organics** 50.0 56.5 113 51 - 148 mg/Kg

[C10-C28]

LCS LCS

Surrogate %Recovery Qualifier Limits Di-n-octyl phthalate (Surr) 122 62 - 134

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-26422/1-A Client Sample ID: Method Blank

**Matrix: Solid** 

**Analysis Batch: 26430** 

мв мв

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Chloride ND 1.5 mg/Kg 05/19/25 08:26 05/19/25 14:20

Lab Sample ID: LCS 885-26422/2-A

**Matrix: Solid** 

Analysis Batch: 26430

Prep Batch: 26422 LCS LCS Spike %Rec Analyte Added Result Qualifier Unit D %Rec Limits Chloride 15.0 15.3 102 90 - 110 mg/Kg

### **QC Association Summary**

Client: Vertex Job ID: 885-25054-1

Project/Site: B Lee State #006

**GC VOA** 

Prep Batch: 26341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-25054-1 BH25-18 1'		Total/NA	Solid	5030C	
885-25054-2	BH25-20 0.5'	Total/NA	Solid	5030C	
885-25054-3	BH25-21 1'	Total/NA	Solid	5030C	
MB 885-26341/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-26341/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-26341/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Analysis Batch: 26476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-25054-1	BH25-18 1'	Total/NA	Solid	8015M/D	26341
885-25054-2	BH25-20 0.5'	Total/NA	Solid	8015M/D	26341
885-25054-3	BH25-21 1'	Total/NA	Solid	8015M/D	26341
MB 885-26341/1-A	Method Blank	Total/NA	Solid	8015M/D	26341
LCS 885-26341/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	26341

Analysis Batch: 26529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-25054-1	BH25-18 1'	Total/NA	Solid	8021B	26341
885-25054-2	BH25-20 0.5'	Total/NA	Solid	8021B	26341
885-25054-3	BH25-21 1'	Total/NA	Solid	8021B	26341
MB 885-26341/1-A	Method Blank	Total/NA	Solid	8021B	26341
LCS 885-26341/3-A	Lab Control Sample	Total/NA	Solid	8021B	26341

**GC Semi VOA** 

Prep Batch: 26350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-25054-1	BH25-18 1'	Total/NA	Solid	SHAKE	
885-25054-2	BH25-20 0.5'	Total/NA	Solid	SHAKE	
885-25054-3	BH25-21 1'	Total/NA	Solid	SHAKE	
MB 885-26350/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-26350/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 26453

<b>Lab Sample ID</b> 885-25054-1	Client Sample ID BH25-18 1'	Prep Type Total/NA	Solid	Method 8015M/D	Prep Batch 26350
885-25054-2	BH25-20 0.5'	Total/NA	Solid	8015M/D	26350
885-25054-3	BH25-21 1'	Total/NA	Solid	8015M/D	26350
MB 885-26350/1-A	Method Blank	Total/NA	Solid	8015M/D	26350
LCS 885-26350/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	26350

HPLC/IC

Prep Batch: 26422

Lab Sample ID 885-25054-1	Client Sample ID BH25-18 1'	Prep Type Total/NA	Matrix Solid	Method 300 Prep	Prep Batch
885-25054-2	BH25-20 0.5'	Total/NA	Solid	300_Prep	
885-25054-3	BH25-21 1'	Total/NA	Solid	300_Prep	
MB 885-26422/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-26422/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Eurofins Albuquerque

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### **QC Association Summary**

Client: Vertex Job ID: 885-25054-1

Project/Site: B Lee State #006

#### HPLC/IC

Analysis Batch: 26430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-25054-1	BH25-18 1'	Total/NA	Solid	300.0	26422
885-25054-2	BH25-20 0.5'	Total/NA	Solid	300.0	26422
885-25054-3	BH25-21 1'	Total/NA	Solid	300.0	26422
MB 885-26422/1-A	Method Blank	Total/NA	Solid	300.0	26422
LCS 885-26422/2-A	Lab Control Sample	Total/NA	Solid	300.0	26422

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Client: Vertex

Lab Sample ID: 885-25054-1

Matrix: Solid

Date Collected: 05/13/25 08:40 Date Received: 05/16/25 07:45

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			26341	JE	EET ALB	05/16/25 11:37
Total/NA	Analysis	8015M/D		1	26476	AT	EET ALB	05/19/25 16:50
Total/NA	Prep	5030C			26341	JE	EET ALB	05/16/25 11:37
Total/NA	Analysis	8021B		1	26529	AT	EET ALB	05/20/25 14:54
Total/NA	Prep	SHAKE			26350	JM	EET ALB	05/16/25 13:35
Total/NA	Analysis	8015M/D		1	26453	MB	EET ALB	05/19/25 13:56
Total/NA	Prep	300_Prep			26422	DL	EET ALB	05/19/25 08:26
Total/NA	Analysis	300.0		20	26430	MA	EET ALB	05/19/25 17:51

Client Sample ID: BH25-20 0.5'

Date Collected: 05/13/25 08:59

Date Received: 05/16/25 07:45

Lab Sample ID: 885-25054-2

**Matrix: Solid** 

Batch Dilution Batch Batch Prepared **Prep Type** Type Method Run Factor Number Analyst Lab or Analyzed 5030C EET ALB 05/16/25 11:37 Total/NA Prep 26341 JΕ Total/NA 8015M/D 05/19/25 17:12 Analysis 1 26476 AT **EET ALB** Total/NA 5030C 05/16/25 11:37 Prep 26341 JE **EET ALB** 26529 AT Total/NA Analysis 8021B 1 **EET ALB** 05/20/25 15:16 Total/NA SHAKE **EET ALB** 05/16/25 13:35 Prep 26350 JM Total/NA Analysis 8015M/D 1 26453 MB **EET ALB** 05/19/25 14:07 EET ALB Total/NA Prep 300\_Prep 26422 DL 05/19/25 08:26 Total/NA Analysis 300.0 20 26430 MA **EET ALB** 05/19/25 18:04

Client Sample ID: BH25-21 1'

Date Collected: 05/13/25 09:45

Date Received: 05/16/25 07:45

Lab Sample ID: 885-25054-3

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			26341	JE	EET ALB	05/16/25 11:37
Total/NA	Analysis	8015M/D		1	26476	AT	EET ALB	05/19/25 17:34
Total/NA	Prep	5030C			26341	JE	EET ALB	05/16/25 11:37
Total/NA	Analysis	8021B		1	26529	AT	EET ALB	05/20/25 15:38
Total/NA	Prep	SHAKE			26350	JM	EET ALB	05/16/25 13:35
Total/NA	Analysis	8015M/D		1	26453	MB	EET ALB	05/19/25 14:18
Total/NA	Prep	300_Prep			26422	DL	EET ALB	05/19/25 08:26
Total/NA	Analysis	300.0		20	26430	MA	EET ALB	05/19/25 18:17

**Laboratory References:** 

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

### **Accreditation/Certification Summary**

Client: Vertex Job ID: 885-25054-1

Project/Site: B Lee State #006

#### **Laboratory: Eurofins Albuquerque**

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

uthority	Progra	am	Identification Number	Expiration Date			
ew Mexico	Mexico State		NM9425, NM0901	02-27-26			
,	are included in this report, bu	it the laboratory is not certif	ied by the governing authority. This lis	t may include analytes			
Analysis Method	Prep Method	Matrix	Analyte				
300.0	300_Prep	Solid	Chloride				
8015M/D	5030C	Solid	Gasoline Range Organics	Gasoline Range Organics [C6 - C10]			
8015M/D	SHAKE	Solid	Diesel Range Organics [C	Diesel Range Organics [C10-C28]			
8015M/D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]				
8021B	5030C	Solid	Benzene				
8021B	5030C	Solid	Ethylbenzene				
8021B	5030C	Solid	Toluene				
8021B	5030C	Solid	Xylenes, Total				
regon	NELA	<b>D</b>	NM100001	02-26-26			

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Received by OCD: 7/16/2025 12:00:36 AM

			istody Record ack Energy, Matt Buckles)	Turn-Around	Time: 4 Day X 5aday	rush				_							IME OR		
Mailing	Address		(On File)	Project Nam  B Lee S  Project #:	e: tate #006						ins N	NE -	Alb	uqu	erqu	al.cor e, NW 345-4	87109	ě	5054 COC
Phone email o	r Fax#: Package:	575-	343-0926  □ Level 4 (Full Validation)	25A-01934 Project Mana Sally Cartta SCarttar@ve		:om	's (8021)	O/MRO)	PCB's		8270SIMS		PO <sub>4</sub> , SO <sub>4</sub>			t/Absent)			
Accred  NEL  EDD		□ Az Co □ Other	ompliance	Sampler: On Ice: # of Coolers: Cooler Temp	1	Minnix  □ No mgo  → 0.7 = 3.4 •  HEAL No.	MTBE / TMB'	TPH:8015D(GRO / DRO	Pesticides/8082	B (Method 504.1)	by 8310 or	RA 8 Metals	F, Br, NO <sub>3</sub> , NO <sub>2</sub> ,	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)			
Date	Time		Sample Name	Type and #	Туре	TIEAE NO.		TP	8081	EDB	PAHs	RCRA	0	826	827	Tot			
5.13.25	8:40	Soil	BH25-18 1'	1, 4oz jar	ICE		X	X					Х				-		
5.13.25	8:59	Soil	BH25-20 0.5'	1, 4oz jar	ICE		X	Х					Х					$\Box$	
5.13.25	9:45	Soil	BH25-21 1'	1, 4oz jar	ICE		X	X					X						
Date: SISIS Date: SISIS	Time: 930 Time: 940	Relinquish Relinquish Mu	on Minnix	Received by: Received by:	Via: councr	Date Time  5/16/26	Dire CC. (SN Pur	Sally linnix	ill to / Cai (@ve	rttar ertex	(SCa cresc <b>unda</b>	artta ource	r@ve e.cor <i>pno</i>	ertex m	kreso		com),		on Minni:









### **Login Sample Receipt Checklist**

Client: Vertex Job Number: 885-25054-1

Login Number: 25054 List Source: Eurofins Albuquerque

List Number: 1

Creator: Casarrubias, Tracy

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	True	

**Environment Testing** 

# **ANALYTICAL REPORT**

### PREPARED FOR

Attn: Ms. Sally Carttar Vertex 3101 Boyd Dr Carlsbad, New Mexico 88220

Generated 6/13/2025 3:19:21 PM

### **JOB DESCRIPTION**

B Lee State #006

# **JOB NUMBER**

885-26495-1

Eurofins Albuquerque 4901 Hawkins NE Albuquerque NM 87109

# **Eurofins Albuquerque**

### **Job Notes**

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

### **Authorization**

Generated 6/13/2025 3:19:21 PM

Authorized for release by Cheyenne Cason, Project Manager cheyenne.cason@et.eurofinsus.com (505)338-8812

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6/13/2025

Client: Vertex
Laboratory Job ID: 885-26495-1
Project/Site: B Lee State #006

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#### **Definitions/Glossary**

Client: Vertex Job ID: 885-26495-1

Project/Site: B Lee State #006

#### **GC Semi VOA** Qualifier

**Qualifiers** 

**Qualifier Description** 

S1+ Surrogate recovery exceeds control limits, high biased.

### **Glossary**

MDC

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)

MDL Method Detection Limit ML Minimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

Not Detected at the reporting limit (or MDL or EDL if shown) ND

Minimum Detectable Concentration (Radiochemistry)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

**PRES** Presumptive QC **Quality Control** 

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)

Too Numerous To Count **TNTC** 

#### **Case Narrative**

Client: Vertex Job ID: 885-26495-1

Project: B Lee State #006

Job ID: 885-26495-1 Eurofins Albuquerque

Job Narrative 885-26495-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

#### Receipt

The samples were received on 6/11/2025 7:35 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.2°C.

#### Receipt Exceptions

The container label for the following samples did not match the information listed on the Chain-of-Custody (COC): BH25-07 2' (885-26495-1), BH25-07 4' (885-26495-2), WS25-01 0-3' (885-26495-3), WS25-02 0-3' (885-26495-4), BS25-01 3' (885-26495-5) and BS25-02 3' (885-26495-6). The container labels list A COLLECTION DATE OF 6/5 AND A TIME OF 1100 while the COC 6/8 AND A COLLECTION TIME OF 1300. The client was contacted, and the lab was instructed to GO WITH WHAT IS ON THE coc.

#### **Gasoline Range Organics**

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### **GC VOA**

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### **Diesel Range Organics**

Method 8015D\_DRO: Surrogate recovery for the following sample was outside the upper control limit: WS25-02 0-3' (885-26495-4). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8015D\_DRO: Surrogate recovery for the following samples is outside the upper control limit: (CCV 885-28149/17), (CCV 885-28149/29), (CCV 885-28149/3), (CCV 885-28149/6) and (CCVRT 885-28149/2). Corresponding CCV has high surrogate. However, samples have acceptable surrogate within range. Therefore, data is reportable.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Albuquerque

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### **Client Sample Results**

Client: Vertex Job ID: 885-26495-1

Project/Site: B Lee State #006

Date Collected: 06/08/25 11:00 Date Received: 06/11/25 07:35

Analyte

Chloride

Client Sample ID: BH25-07 2'

Lab Sample ID: 885-26495-1

Dil Fac

20

Analyzed

06/12/25 19:02

Matrix:	Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		06/11/25 12:11	06/13/25 00:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		15 - 150			06/11/25 12:11	06/13/25 00:19	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)	)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/11/25 12:11	06/13/25 00:19	1
Ethylbenzene	ND		0.050	mg/Kg		06/11/25 12:11	06/13/25 00:19	1
Toluene	ND		0.050	mg/Kg		06/11/25 12:11	06/13/25 00:19	1
Xylenes, Total	ND		0.099	mg/Kg		06/11/25 12:11	06/13/25 00:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		15 - 150			06/11/25 12:11	06/13/25 00:19	1
Method: SW846 8015M/D - Diese	Range Organ	ics (DRO) (	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		06/12/25 09:00	06/12/25 17:21	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		06/12/25 09:00	06/12/25 17:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	131		62 - 134			06/12/25 09:00	06/12/25 17:21	1

RL

60

Result Qualifier

1200

Unit

mg/Kg

Prepared

06/12/25 11:33

### **Client Sample Results**

Client: Vertex Job ID: 885-26495-1

Project/Site: B Lee State #006

Client Sample ID: BH25-07 4'

Lab Sample ID: 885-26495-2 Date Collected: 06/09/25 09:30

Matrix: Solid

06/12/25 11:33

06/12/25 19:13

20

Date Received: 06/11/25 07:35

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		06/11/25 12:11	06/13/25 01:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		15 - 150			06/11/25 12:11	06/13/25 01:31	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)	)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/11/25 12:11	06/13/25 01:31	1
Ethylbenzene	ND		0.050	mg/Kg		06/11/25 12:11	06/13/25 01:31	1
Toluene	ND		0.050	mg/Kg		06/11/25 12:11	06/13/25 01:31	1
Xylenes, Total	ND		0.10	mg/Kg		06/11/25 12:11	06/13/25 01:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		15 - 150			06/11/25 12:11	06/13/25 01:31	1
Method: SW846 8015M/D - Diese	I Range Organ	ics (DRO) (	GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.1	mg/Kg		06/12/25 09:00	06/12/25 17:45	1
Motor Oil Range Organics [C28-C40]	ND		45	mg/Kg		06/12/25 09:00	06/12/25 17:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	127		62 - 134			06/12/25 09:00	06/12/25 17:45	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy						

60

mg/Kg

Client: Vertex Job ID: 885-26495-1

Project/Site: B Lee State #006

Date Received: 06/11/25 07:35

Client Sample ID: WS25-01 0-3'

Date Collected: 06/09/25 12:20

Lab Sample ID: 885-26495-3

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		06/11/25 12:11	06/13/25 02:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		15 - 150			06/11/25 12:11	06/13/25 02:43	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/11/25 12:11	06/13/25 02:43	1
Ethylbenzene	ND		0.049	mg/Kg		06/11/25 12:11	06/13/25 02:43	1
Toluene	ND		0.049	mg/Kg		06/11/25 12:11	06/13/25 02:43	1
Xylenes, Total	ND		0.099	mg/Kg		06/11/25 12:11	06/13/25 02:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		15 - 150			06/11/25 12:11	06/13/25 02:43	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5	mg/Kg		06/12/25 09:00	06/12/25 18:09	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		06/12/25 09:00	06/12/25 18:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	132		62 - 134			06/12/25 09:00	06/12/25 18:09	1

Method: EPA 300.0 - Anions, ion C	nromatograpny						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND —	60	mg/Kg		06/12/25 11:33	06/12/25 19:23	20

Client: Vertex Job ID: 885-26495-1

Project/Site: B Lee State #006

Client Sample ID: WS25-02 0-3'

Lab Sample ID: 885-26495-4 Date Collected: 06/09/25 13:00

Matrix: Solid

Prepared

06/12/25 09:00

Analyzed

06/12/25 18:33

Date Received: 06/11/25 07:35

Surrogate

Di-n-octyl phthalate (Surr)

Method: SW846 8015M/D - Gasol	line Range Org	anics (GRC	)) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		06/11/25 12:11	06/13/25 03:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		15 - 150			06/11/25 12:11	06/13/25 03:06	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC	)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/11/25 12:11	06/13/25 03:06	1
Ethylbenzene	ND		0.050	mg/Kg		06/11/25 12:11	06/13/25 03:06	1
Toluene	ND		0.050	mg/Kg		06/11/25 12:11	06/13/25 03:06	1
Xylenes, Total	ND		0.099	mg/Kg		06/11/25 12:11	06/13/25 03:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		15 - 150			06/11/25 12:11	06/13/25 03:06	1
Method: SW846 8015M/D - Diese	I Range Organ	ics (DRO) (	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7	mg/Kg		06/12/25 09:00	06/12/25 18:33	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		06/12/25 09:00	06/12/25 18:33	1

 Method: EPA 300.0 - Anions, Ion C	hromatography						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	62	60	mg/Kg		06/12/25 11:33	06/12/25 19:33	20

Limits

62 - 134

%Recovery Qualifier

135 S1+

Eurofins Albuquerque

Dil Fac

Client: Vertex Job ID: 885-26495-1

Project/Site: B Lee State #006

Client Sample ID: BS25-01 3'

Lab Sample ID: 885-26495-5

Date Collected: 06/09/25 13:30 Matrix: Solid Date Received: 06/11/25 07:35

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		06/11/25 12:13	06/13/25 03:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		15 - 150			06/11/25 12:13	06/13/25 03:30	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)	)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/11/25 12:13	06/13/25 03:30	1
Ethylbenzene	ND		0.049	mg/Kg		06/11/25 12:13	06/13/25 03:30	1
Toluene	ND		0.049	mg/Kg		06/11/25 12:13	06/13/25 03:30	1
Xylenes, Total	ND		0.098	mg/Kg		06/11/25 12:13	06/13/25 03:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		15 - 150			06/11/25 12:13	06/13/25 03:30	1
Method: SW846 8015M/D - Diese	l Range Organ	ics (DRO) (	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3	mg/Kg		06/12/25 09:00	06/12/25 18:57	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		06/12/25 09:00	06/12/25 18:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	124		62 - 134			06/12/25 09:00	06/12/25 18:57	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	62		60	mg/Kg		06/12/25 11:33	06/12/25 19:44	20

Client: Vertex Job ID: 885-26495-1

Project/Site: B Lee State #006

Client Sample ID: BS25-02 3'

Lab Sample ID: 885-26495-6

Date Collected: 06/09/25 13:35 Matrix: Solid Date Received: 06/11/25 07:35

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		06/11/25 12:13	06/13/25 03:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		15 - 150			06/11/25 12:13	06/13/25 03:54	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/11/25 12:13	06/13/25 03:54	1
Ethylbenzene	ND		0.049	mg/Kg		06/11/25 12:13	06/13/25 03:54	1
Toluene	ND		0.049	mg/Kg		06/11/25 12:13	06/13/25 03:54	1
Xylenes, Total	ND		0.099	mg/Kg		06/11/25 12:13	06/13/25 03:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		15 _ 150			06/11/25 12:13	06/13/25 03:54	1
- Method: SW846 8015M/D - Diese	I Range Organ	ics (DRO) (	GC)					
	Dogult	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result							
Analyte Diesel Range Organics [C10-C28]	ND		9.7	mg/Kg		06/12/25 09:00	06/12/25 19:21	1
Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40]			9.7	mg/Kg mg/Kg		06/12/25 09:00 06/12/25 09:00	06/12/25 19:21 06/12/25 19:21	1
Diesel Range Organics [C10-C28]	ND	<u> </u>	***	0 0				1 1 Dil Fac
Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40]	ND ND	<u> </u>	48	0 0		06/12/25 09:00	06/12/25 19:21	1 1 Dil Fac
Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40]  Surrogate  Di-n-octyl phthalate (Surr)	ND ND <b>%Recovery</b> 127	Qualifier	48  Limits	0 0		06/12/25 09:00  Prepared	06/12/25 19:21  Analyzed	
Diesel Range Organics [C10-C28]  Motor Oil Range Organics [C28-C40]  Surrogate	ND ND **Recovery 127  Chromatograp	Qualifier	48  Limits	0 0	D	06/12/25 09:00  Prepared	06/12/25 19:21  Analyzed	

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 28031

Client: Vertex Job ID: 885-26495-1

Project/Site: B Lee State #006

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-28031/1-A **Matrix: Solid** 

Analysis Batch: 28205

MB MB Analyte Result Qualifier RLUnit D Prepared Analyzed Dil Fac Gasoline Range Organics [C6 - C10] ND 5.0 mg/Kg 06/11/25 08:03 06/12/25 23:55

MB MB

LCS LCS

237

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 103 15 - 150 06/11/25 08:03 06/12/25 23:55

Lab Sample ID: LCS 885-28031/2-A Client Sample ID: Lab Control Sample Prep Type: Total/NA

**Matrix: Solid** 

Analysis Batch: 28205

Prep Batch: 28031 Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits 25.0 24.2 97 70 - 130 mg/Kg Gasoline Range Organics [C6 -

C10]

%Recovery Qualifier Surrogate

Limits 208 15 - 150 4-Bromofluorobenzene (Surr)

Lab Sample ID: 885-26495-1 MS Client Sample ID: BH25-07 2' Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 28205** 

Prep Batch: 28031 Sample Sample Spike MS MS Result Qualifier Added Result Qualifier Analyte Unit D %Rec Limits 24.9 Gasoline Range Organics [C6 -ND 30.6 mg/Kg 123 70 - 130C10]

15 - 150

MS MS %Recovery Qualifier Limits Surrogate

Lab Sample ID: 885-26495-1 MSD

**Matrix: Solid** 

**Analysis Batch: 28205** 

4-Bromofluorobenzene (Surr)

Sample Sample MSD MSD Spike %Rec Result Qualifier Added RPD Analyte Result Qualifier %Rec Limits Unit Gasoline Range Organics [C6 -ND 25.0 28.9 mg/Kg 116 70 - 130

C10]

MSD MSD %Recovery Surrogate Qualifier Limits

4-Bromofluorobenzene (Surr) 229 15 - 150

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-28031/1-A

Released to Imaging: 8/20/2025 11:23:00 AM

Matrix: Solid **Analysis Batch: 28204** 

MB MB

Analyte Result Qualifier RL Unit Analyzed Dil Fac D Prepared 0.025 Benzene ND mg/Kg 06/11/25 08:03 06/12/25 23:55 Ethylbenzene ND 0.050 mg/Kg 06/11/25 08:03 06/12/25 23:55 ND 0.050 06/12/25 23:55 Toluene 06/11/25 08:03 mg/Kg

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Prep Type: Total/NA

Prep Batch: 28031

Client Sample ID: Method Blank

Client Sample ID: BH25-07 2' Prep Type: Total/NA

> Prep Batch: 28031 RPD

Limit 20

Client: Vertex Job ID: 885-26495-1

Project/Site: B Lee State #006

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

**Matrix: Solid** 

Lab Sample ID: MB 885-28031/1-A

Analysis Batch: 28204

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 28031

Analyte Result Qualifier RL Unit D Prepared Dil Fac Analyzed Xylenes, Total ND 0.10 06/11/25 08:03 06/12/25 23:55 mg/Kg

MR MR

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 97 15 - 150 06/11/25 08:03 06/12/25 23:55

Lab Sample ID: LCS 885-28031/10-A Client Sample ID: Lab Control Sample

3.00

3.09

**Matrix: Solid** 

Analyte

Benzene

Ethylbenzene

Xylenes, Total

m,p-Xylene

o-Xylene

Toluene

**Analysis Batch: 28204** 

Prep Type: Total/NA Prep Batch: 28031

103

LCS LCS Spike %Rec Added Result Qualifier Unit %Rec Limits 1.00 1.00 mg/Kg 100 70 - 130 1.00 0.997 mg/Kg 100 70 - 130 2.00 2.09 mg/Kg 104 70 - 130 1.00 1.00 mg/Kg 100 70 - 130 0.992 1.00 mg/Kg 99 70 - 130

mg/Kg

LCS LCS

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 103 15 \_ 150

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-28130/1-A

**Matrix: Solid** 

Analysis Batch: 28149

Client Sample ID: Method Blank Prep Type: Total/NA

70 - 130

Prep Batch: 28130

Analyte Qualifier RL Unit Prepared Analyzed Dil Fac Result Diesel Range Organics [C10-C28] ND 10 mg/Kg 06/12/25 09:00 06/12/25 12:32 Motor Oil Range Organics [C28-C40] ND 50 mg/Kg 06/12/25 09:00 06/12/25 12:32

MB MB

MR MR

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac Di-n-octyl phthalate (Surr) 120 62 - 134 06/12/25 09:00 06/12/25 12:32

LCS LCS

Lab Sample ID: LCS 885-28130/2-A

**Matrix: Solid** 

Analysis Batch: 28149

Client Sample ID: Lab Control Sample

Prep Batch: 28130

Spike %Rec Analyte Added Result Qualifier Unit D %Rec Limits Diesel Range Organics 50.0 46.1 92 51 - 148 mg/Kg

[C10-C28]

LCS LCS

%Recovery Qualifier Limits Surrogate 62 - 134 Di-n-octyl phthalate (Surr) 128

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Prep Type: Total/NA

Prep Batch: 28163

### **QC Sample Results**

Client: Vertex Job ID: 885-26495-1

Project/Site: B Lee State #006

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-28163/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Matrix: Solid Analysis Batch: 28199

MB MB

 Analyte
 Result Chloride
 Qualifier
 RL ND
 Unit mg/Kg
 D Prepared D6/12/25 11:33
 Analyzed Analyzed Mol/12/25 16:00
 Dil Fac Mol/12/25 11:33

Lab Sample ID: LCS 885-28163/2-A

Client Sample ID: Lab Control Sample
Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 28199 Prep Batch: 28163

Spike LCS LCS %Rec Added Result Qualifier Analyte Unit D %Rec Limits Chloride 15.0 15.0 mg/Kg 100 90 - 110

Lab Sample ID: MRL 885-28199/5 Client Sample ID: Lab Control Sample

Matrix: Solid Prep Type: Total/NA

Analysis Batch: 28199
Spike MRL MRL

 Analyte
 Added Chloride
 Result On the Chloride
 Unit On the Chloride

# **QC Association Summary**

Client: Vertex Job ID:

Project/Site: B Lee State #006

Job ID: 885-26495-1

### **GC VOA**

Prep Batch: 28031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26495-1	BH25-07 2'	Total/NA	Solid	5030C	
885-26495-2	BH25-07 4'	Total/NA	Solid	5030C	
885-26495-3	WS25-01 0-3'	Total/NA	Solid	5030C	
885-26495-4	WS25-02 0-3'	Total/NA	Solid	5030C	
885-26495-5	BS25-01 3'	Total/NA	Solid	5030C	
885-26495-6	BS25-02 3'	Total/NA	Solid	5030C	
MB 885-28031/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-28031/10-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-28031/2-A	Lab Control Sample	Total/NA	Solid	5030C	
885-26495-1 MS	BH25-07 2'	Total/NA	Solid	5030C	
885-26495-1 MSD	BH25-07 2'	Total/NA	Solid	5030C	

### Analysis Batch: 28204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26495-1	BH25-07 2'	Total/NA	Solid	8021B	28031
885-26495-2	BH25-07 4'	Total/NA	Solid	8021B	28031
885-26495-3	WS25-01 0-3'	Total/NA	Solid	8021B	28031
885-26495-4	WS25-02 0-3'	Total/NA	Solid	8021B	28031
885-26495-5	BS25-01 3'	Total/NA	Solid	8021B	28031
885-26495-6	BS25-02 3'	Total/NA	Solid	8021B	28031
MB 885-28031/1-A	Method Blank	Total/NA	Solid	8021B	28031
LCS 885-28031/10-A	Lab Control Sample	Total/NA	Solid	8021B	28031

### Analysis Batch: 28205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26495-1	BH25-07 2'	Total/NA	Solid	8015M/D	28031
885-26495-2	BH25-07 4'	Total/NA	Solid	8015M/D	28031
885-26495-3	WS25-01 0-3'	Total/NA	Solid	8015M/D	28031
885-26495-4	WS25-02 0-3'	Total/NA	Solid	8015M/D	28031
885-26495-5	BS25-01 3'	Total/NA	Solid	8015M/D	28031
885-26495-6	BS25-02 3'	Total/NA	Solid	8015M/D	28031
MB 885-28031/1-A	Method Blank	Total/NA	Solid	8015M/D	28031
LCS 885-28031/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	28031
885-26495-1 MS	BH25-07 2'	Total/NA	Solid	8015M/D	28031
885-26495-1 MSD	BH25-07 2'	Total/NA	Solid	8015M/D	28031

### **GC Semi VOA**

Prep Batch: 28130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26495-1	BH25-07 2'	Total/NA	Solid	SHAKE	
885-26495-2	BH25-07 4'	Total/NA	Solid	SHAKE	
885-26495-3	WS25-01 0-3'	Total/NA	Solid	SHAKE	
885-26495-4	WS25-02 0-3'	Total/NA	Solid	SHAKE	
885-26495-5	BS25-01 3'	Total/NA	Solid	SHAKE	
885-26495-6	BS25-02 3'	Total/NA	Solid	SHAKE	
MB 885-28130/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-28130/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

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Released to Imaging: 8/20/2025 11:23:00 AM

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# **QC Association Summary**

Client: Vertex Job ID: 885-26495-1

Project/Site: B Lee State #006

### GC Semi VOA

### Analysis Batch: 28149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26495-1	BH25-07 2'	Total/NA	Solid	8015M/D	28130
885-26495-2	BH25-07 4'	Total/NA	Solid	8015M/D	28130
885-26495-3	WS25-01 0-3'	Total/NA	Solid	8015M/D	28130
885-26495-4	WS25-02 0-3'	Total/NA	Solid	8015M/D	28130
885-26495-5	BS25-01 3'	Total/NA	Solid	8015M/D	28130
885-26495-6	BS25-02 3'	Total/NA	Solid	8015M/D	28130
MB 885-28130/1-A	Method Blank	Total/NA	Solid	8015M/D	28130
LCS 885-28130/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	28130

## HPLC/IC

### Prep Batch: 28163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26495-1	BH25-07 2'	Total/NA	Solid	300_Prep	
885-26495-2	BH25-07 4'	Total/NA	Solid	300_Prep	
885-26495-3	WS25-01 0-3'	Total/NA	Solid	300_Prep	
885-26495-4	WS25-02 0-3'	Total/NA	Solid	300_Prep	
885-26495-5	BS25-01 3'	Total/NA	Solid	300_Prep	
885-26495-6	BS25-02 3'	Total/NA	Solid	300_Prep	
MB 885-28163/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-28163/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

### Analysis Batch: 28199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26495-1	BH25-07 2'	Total/NA	Solid	300.0	28163
885-26495-2	BH25-07 4'	Total/NA	Solid	300.0	28163
885-26495-3	WS25-01 0-3'	Total/NA	Solid	300.0	28163
885-26495-4	WS25-02 0-3'	Total/NA	Solid	300.0	28163
885-26495-5	BS25-01 3'	Total/NA	Solid	300.0	28163
885-26495-6	BS25-02 3'	Total/NA	Solid	300.0	28163
MB 885-28163/1-A	Method Blank	Total/NA	Solid	300.0	28163
LCS 885-28163/2-A	Lab Control Sample	Total/NA	Solid	300.0	28163
MRI 885-28199/5	Lab Control Sample	Total/NA	Solid	300.0	

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Client: Vertex

Client Sample ID: BH25-07 2'

Date Collected: 06/08/25 11:00 Date Received: 06/11/25 07:35 Lab Sample ID: 885-26495-1

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			28031	JE	EET ALB	06/11/25 12:11
Total/NA	Analysis	8015M/D		1	28205	JP	EET ALB	06/13/25 00:19
Total/NA	Prep	5030C			28031	JE	EET ALB	06/11/25 12:11
Total/NA	Analysis	8021B		1	28204	JP	EET ALB	06/13/25 00:19
Total/NA	Prep	SHAKE			28130	MI	EET ALB	06/12/25 09:00
Total/NA	Analysis	8015M/D		1	28149	EM	EET ALB	06/12/25 17:21
Total/NA	Prep	300_Prep			28163	MA	EET ALB	06/12/25 11:33
Total/NA	Analysis	300.0		20	28199	RC	EET ALB	06/12/25 19:02

Client Sample ID: BH25-07 4'

Date Collected: 06/09/25 09:30

Lab Sample ID: 885-26495-2

**Matrix: Solid** 

Date Received: 06/11/25 07:35

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			28031	JE	EET ALB	06/11/25 12:11
Total/NA	Analysis	8015M/D		1	28205	JP	EET ALB	06/13/25 01:31
Total/NA	Prep	5030C			28031	JE	EET ALB	06/11/25 12:11
Total/NA	Analysis	8021B		1	28204	JP	EET ALB	06/13/25 01:31
Total/NA	Prep	SHAKE			28130	MI	EET ALB	06/12/25 09:00
Total/NA	Analysis	8015M/D		1	28149	EM	EET ALB	06/12/25 17:45
Total/NA	Prep	300_Prep			28163	MA	EET ALB	06/12/25 11:33
Total/NA	Analysis	300.0		20	28199	RC	EET ALB	06/12/25 19:13

Client Sample ID: WS25-01 0-3'

Date Collected: 06/09/25 12:20

Date Received: 06/11/25 07:35

Lab Sample ID: 885-26495-3

**Matrix: Solid** 

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			28031	JE	EET ALB	06/11/25 12:11
Total/NA	Analysis	8015M/D		1	28205	JP	EET ALB	06/13/25 02:43
Total/NA	Prep	5030C			28031	JE	EET ALB	06/11/25 12:11
Total/NA	Analysis	8021B		1	28204	JP	EET ALB	06/13/25 02:43
Total/NA	Prep	SHAKE			28130	MI	EET ALB	06/12/25 09:00
Total/NA	Analysis	8015M/D		1	28149	EM	EET ALB	06/12/25 18:09
Total/NA	Prep	300_Prep			28163	MA	EET ALB	06/12/25 11:33
Total/NA	Analysis	300.0		20	28199	RC	EET ALB	06/12/25 19:23

Client Sample ID: WS25-02 0-3'

Date Collected: 06/09/25 13:00

Date Received: 06/11/25 07:35

Lab Sam	ple ID:	885-26495-4	
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**Matrix: Solid** 

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			28031	JE	EET ALB	06/11/25 12:11
Total/NA	Analysis	8015M/D		1	28205	JP	EET ALB	06/13/25 03:06

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28163 MA

28199 RC

**EET ALB** 

**EET ALB** 

Client: Vertex

Total/NA

Total/NA

Client Sample ID: WS25-02 0-3'

Client Sample ID. W325-02 0-3

Date Collected: 06/09/25 13:00 Date Received: 06/11/25 07:35 Lab Sample ID: 885-26495-4

Matrix: Solid

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number Analyst Lab or Analyzed 06/11/25 12:11 Total/NA Prep 5030C 28031 JΕ EET ALB Total/NA Analysis 8021B 1 28204 JP **EET ALB** 06/13/25 03:06 Total/NA Prep SHAKE 28130 MI **EET ALB** 06/12/25 09:00 Total/NA Analysis 8015M/D 1 28149 EM **EET ALB** 06/12/25 18:33

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Client Sample ID: BS25-01 3'

Prep

Analysis

300 Prep

300.0

Date Collected: 06/09/25 13:30 Date Received: 06/11/25 07:35 Lab Sample ID: 885-26495-5

06/12/25 11:33

06/12/25 19:33

Matrix: Solid

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor **Number Analyst** Lab or Analyzed Total/NA Prep 5030C 28031 JΕ **EET ALB** 06/11/25 12:13 Total/NA 8015M/D 28205 JΡ **EET ALB** 06/13/25 03:30 Analysis 1 Total/NA 5030C 06/11/25 12:13 Prep 28031 JΕ **EET ALB** Total/NA 8021B 28204 JΡ **EET ALB** 06/13/25 03:30 Analysis 1 Total/NA SHAKE 28130 MI **EET ALB** 06/12/25 09:00 Prep Total/NA Analysis 8015M/D 1 28149 EM **EET ALB** 06/12/25 18:57 EET ALB 06/12/25 11:33 Total/NA Prep 300 Prep 28163 MA Total/NA Analysis 300.0 20 28199 RC **EET ALB** 06/12/25 19:44

Client Sample ID: BS25-02 3'

Date Collected: 06/09/25 13:35 Date Received: 06/11/25 07:35 Lab Sample ID: 885-26495-6

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			28031	JE	EET ALB	06/11/25 12:13
Total/NA	Analysis	8015M/D		1	28205	JP	EET ALB	06/13/25 03:54
Total/NA	Prep	5030C			28031	JE	EET ALB	06/11/25 12:13
Total/NA	Analysis	8021B		1	28204	JP	EET ALB	06/13/25 03:54
Total/NA	Prep	SHAKE			28130	MI	EET ALB	06/12/25 09:00
Total/NA	Analysis	8015M/D		1	28149	EM	EET ALB	06/12/25 19:21
Total/NA	Prep	300_Prep			28163	MA	EET ALB	06/12/25 11:33
Total/NA	Analysis	300.0		20	28199	RC	EET ALB	06/12/25 20:15

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

# **Accreditation/Certification Summary**

Client: Vertex Job ID: 885-26495-1

Project/Site: B Lee State #006

### **Laboratory: Eurofins Albuquerque**

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

uthority	Program		Identification Number	<b>Expiration Date</b>	
ew Mexico	State		NM9425, NM0901	02-27-26	
• •	are included in this report, bu	it the laboratory is not certif	ied by the governing authority. This lis	st may include analytes	
Analysis Method	Prep Method	Matrix	Analyte		
300.0	300_Prep	Solid	Chloride		
8015M/D	5030C	Solid	Gasoline Range Organics	[C6 - C10]	
8015M/D	SHAKE	Solid	Diesel Range Organics [C	:10-C28]	
8015M/D	SHAKE	Solid	Motor Oil Range Organics	[C28-C40]	
8021B	5030C	Solid	Benzene		
8021B	5030C	Solid	Ethylbenzene		
8021B	5030C	Solid	Toluene		
8021B	5030C	Solid	Xylenes, Total		
regon	NELAI	5	NM100001	02-26-26	

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This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.





Received by OCD: 7/16/2025 12:00:36 AM

## **Login Sample Receipt Checklist**

Client: Vertex Job Number: 885-26495-1

Login Number: 26495 List Source: Eurofins Albuquerque

List Number: 1

Creator: McQuiston, Steven

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	IDs on containers do not match the COC. Logged in per COC.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	N/A	

**Environment Testing** 

# **ANALYTICAL REPORT**

# PREPARED FOR

Attn: Ms. Sally Carttar Vertex 3101 Boyd Dr Carlsbad, New Mexico 88220

Generated 6/18/2025 7:28:15 PM

# **JOB DESCRIPTION**

B Lee State #006

# **JOB NUMBER**

885-26814-1

Eurofins Albuquerque 4901 Hawkins NE Albuquerque NM 87109

# **Eurofins Albuquerque**

# **Job Notes**

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

# **Authorization**

Generated 6/18/2025 7:28:15 PM

Authorized for release by Cheyenne Cason, Project Manager cheyenne.cason@et.eurofinsus.com

(505)338-8812

Client: Vertex
Laboratory Job ID: 885-26814-1
Project/Site: B Lee State #006

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### **Definitions/Glossary**

Client: Vertex Job ID: 885-26814-1

Project/Site: B Lee State #006

#### **Qualifiers**

#### **HPLC/IC**

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not
	applicable.

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor

DL	Detection Limit (DoD/DOF)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DE, TV, TVE, TV

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

### **Case Narrative**

Client: Vertex Job ID: 885-26814-1

Project: B Lee State #006

Job ID: 885-26814-1 Eurofins Albuquerque

#### Job Narrative 885-26814-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these
  situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise
  specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

#### Receipt

The samples were received on 6/14/2025 7:53 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.3°C.

#### Gasoline Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### **Diesel Range Organics**

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

**Eurofins Albuquerque** 

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Client: Vertex Job ID: 885-26814-1

Project/Site: B Lee State #006

Client Sample ID: BS25-04 3ft

Lab Sample ID: 885-26814-1

Matrix: Solid

Date Collected: 06/10/25 15:20 Date Received: 06/14/25 07:53

Analyte

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	ND		5.0	mg/Kg		06/16/25 12:34	06/18/25 05:15	
(GRO)-C6-C10								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	98		15 - 150			06/16/25 12:34	06/18/25 05:15	
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)	)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/16/25 12:34	06/18/25 05:15	
Ethylbenzene	ND		0.050	mg/Kg		06/16/25 12:34	06/18/25 05:15	,
Toluene	ND		0.050	mg/Kg		06/16/25 12:34	06/18/25 05:15	
Xylenes, Total	ND		0.10	mg/Kg		06/16/25 12:34	06/18/25 05:15	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	93		15 - 150			06/16/25 12:34	06/18/25 05:15	
Method: SW846 8015M/D - Diese	l Range Organ	ics (DRO) (	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		06/17/25 10:31	06/18/25 04:29	-
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		06/17/25 10:31	06/18/25 04:29	,
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
Di-n-octyl phthalate (Surr)	114		62 - 134			06/17/25 10:31	06/18/25 04:29	

RL

60

Unit

mg/Kg

Prepared

06/16/25 14:30

Analyzed

06/17/25 09:09

Dil Fac

20

Result Qualifier

680

Client: Vertex Job ID: 885-26814-1

Project/Site: B Lee State #006

Client Sample ID: BS25-06 at 3ft

Date Collected: 06/10/25 15:40 Date Received: 06/14/25 07:53

Surrogate

4-Bromofluorobenzene (Surr)

Lab Sample ID: 885-26814-2

Analyzed

06/18/25 06:27

Prepared

06/16/25 12:34

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	ND		4.9	mg/Kg		06/16/25 12:34	06/18/25 06:27	1
(GRO)-C6-C10								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)  Method: SW846 8021B - Volati	95 ile Organic Comp	ounds (GC)	15 - 150			06/16/25 12:34	06/18/25 06:27	1
	ile Organic Comp	ounds (GC)		Unit	D	06/16/25 12:34  Prepared	06/18/25 06:27  Analyzed	1 Dil Fac
Method: SW846 8021B - Volati	ile Organic Comp	, ,		Unit mg/Kg	<u>D</u>			Dil Fac
Method: SW846 8021B - Volati Analyte	ile Organic Comp	, ,	RL		<u>D</u>	Prepared	Analyzed	1 Dil Fac 1
Method: SW846 8021B - Volati Analyte Benzene	ile Organic Comp Result ND	, ,	RL 0.025	mg/Kg	<u>D</u>	Prepared 06/16/25 12:34	Analyzed 06/18/25 06:27	1 Dil Fac 1 1 1 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	36		9.5	mg/Kg		06/17/25 10:31	06/18/25 04:41	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		06/17/25 10:31	06/18/25 04:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	111		62 - 134			06/17/25 10:31	06/18/25 04:41	1

Limits

15 - 150

%Recovery Qualifier

91

Wethou. EPA 300.0 - Amons, fon C	nons, for Chromatography								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	380		60	mg/Kg		06/16/25 14:30	06/17/25 09:40	20	

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Client: Vertex Job ID: 885-26814-1

Project/Site: B Lee State #006

Client Sample ID: BS25-07 at 3ft

Date Collected: 06/10/25 15:45 Date Received: 06/14/25 07:53

4-Bromofluorobenzene (Surr)

Released to Imaging: 8/20/2025 11:23:00 AM

Lab Sample ID: 885-26814-3

06/16/25 12:34 06/18/25 07:37

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	ND		5.0	mg/Kg		06/16/25 12:34	06/18/25 07:37	1
(GRO)-C6-C10								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		15 - 150			06/16/25 12:34	06/18/25 07:37	1
Method: SW846 8021B - Volat	•				_			
Method: SW846 8021B - Volat Analyte	•	ounds (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	•			Unit mg/Kg	<u>D</u>	Prepared 06/16/25 12:34	Analyzed 06/18/25 07:37	Dil Fac
Analyte	Result		RL		<u>D</u>			Dil Fac
Analyte Benzene	Result ND		RL 0.025	mg/Kg	<u>D</u>	06/16/25 12:34	06/18/25 07:37	Dil Fac 1 1 1
Analyte Benzene Ethylbenzene	Result ND ND		0.025 0.050	mg/Kg	<u>D</u>	06/16/25 12:34 06/16/25 12:34	06/18/25 07:37 06/18/25 07:37	Dil Fac 1 1 1 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	24		9.8	mg/Kg		06/17/25 10:31	06/18/25 04:52	
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		06/17/25 10:31	06/18/25 04:52	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
Di-n-octyl phthalate (Surr)	117		62 - 134			06/17/25 10:31	06/18/25 04:52	

15 - 150

93

	ictilou. El A 000.0 - Allions, ion o	out - Amons, for officinatography								
A	nalyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
С	hloride	280		60	mg/Kg		06/16/25 14:30	06/17/25 10:11	20	

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Client: Vertex Job ID: 885-26814-1

Project/Site: B Lee State #006

Client Sample ID: BS25-08 at 3ft

Date Collected: 06/10/25 15:50 Date Received: 06/14/25 07:53

Surrogate

Analyte

Chloride

Di-n-octyl phthalate (Surr)

Method: EPA 300.0 - Anions, Ion Chromatography

Lab Sample ID: 885-26814-4

Prepared

06/17/25 10:31

Prepared

06/16/25 14:30

Analyzed

06/18/25 05:03

Analyzed

06/17/25 10:21

Matrix: Solid

Method: SW846 8015M/D - Gasol	•	•			_			
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	ND		5.0	mg/Kg		06/16/25 12:34	06/18/25 08:01	1
(GRO)-C6-C10								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		15 - 150			06/16/25 12:34	06/18/25 08:01	1
- Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)	)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/16/25 12:34	06/18/25 08:01	1
Ethylbenzene	ND		0.050	mg/Kg		06/16/25 12:34	06/18/25 08:01	1
Toluene	ND		0.050	mg/Kg		06/16/25 12:34	06/18/25 08:01	1
Xylenes, Total	ND		0.099	mg/Kg		06/16/25 12:34	06/18/25 08:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		15 - 150			06/16/25 12:34	06/18/25 08:01	1
- Method: SW846 8015M/D - Diese	I Range Organ	ics (DRO) (	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	33		9.4	mg/Kg		06/17/25 10:31	06/18/25 05:03	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		06/17/25 10:31	06/18/25 05:03	1

Limits

62 - 134

RL

60

Unit

mg/Kg

%Recovery Qualifier

Result Qualifier

110

440

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Released to Imaging: 8/20/2025 11:23:00 AM

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Dil Fac

Dil Fac

Client: Vertex Job ID: 885-26814-1

Project/Site: B Lee State #006

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-28381/3-A Matrix: Solid

Analysis Batch: 28515

Client Sample ID: Method Blank
Prep Type: Total/NA

Prep Batch: 28381

MB MB

AnalyteResult<br/>Gasoline Range OrganicsQualifierRL<br/>NDUnit<br/>mg/KgD<br/>06/16/25 12:34Prepared<br/>06/16/25 12:34Analyzed<br/>06/18/25 04:51Dil Fac<br/>06/18/25 04:51

(GRO)-C6-C10

MB MB

 Surrogate
 %Recovery
 Qualifier
 Limits
 Prepared
 Analyzed
 Dil Fac

 4-Bromofluorobenzene (Surr)
 99
 15 - 150
 06/16/25 12:34
 06/18/25 04:51
 1

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 885-28381/1-A Matrix: Solid

Analysis Batch: 28515

Prep Type: Total/NA

Prep Batch: 28381

SpikeLCSLCS%RecAnalyteAddedResultQualifierUnitD%RecLimitsGasoline Range Organics25.023.8mg/Kg9570 - 130

(GRO)-C6-C10

LCS LCS

 Surrogate
 %Recovery
 Qualifier
 Limits

 4-Bromofluorobenzene (Surr)
 202
 15 - 150

Lab Sample ID: 885-26814-1 MS

**Matrix: Solid** 

**Analysis Batch: 28515** 

Client Sample ID: BS25-04 3ft

Prep Type: Total/NA

Prep Batch: 28381

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits ND 24.9 23.3 94 70 - 130 Gasoline Range Organics mg/Kg

(GRO)-C6-C10

MS MS

Surrogate

#Recovery Qualifier

Surrogate%RecoveryQualifierLimits4-Bromofluorobenzene (Surr)20215 - 150

Lab Sample ID: 885-26814-1 MSD

Matrix: Solid

**Analysis Batch: 28515** 

Client Sample ID: BS25-04 3ft

Prep Type: Total/NA Prep Batch: 28381

Prep Batch: 2036

Spike MSD MSD %Rec RPD Sample Sample Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits **RPD** Limit Gasoline Range Organics ND 24.9 21.0 mg/Kg 84 70 - 130

(GRO)-C6-C10

MSD MSD

Surrogate%RecoveryQualifierLimits4-Bromofluorobenzene (Surr)19215 - 150

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-28381/3-A

**Matrix: Solid** 

Analysis Batch: 28516

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 28381

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/16/25 12:34	06/18/25 04:51	1
Ethylbenzene	ND		0.050	mg/Kg		06/16/25 12:34	06/18/25 04:51	1
Toluene	ND		0.050	mg/Kg		06/16/25 12:34	06/18/25 04:51	1

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Lab Sample ID: LCS 885-28381/2-A

Client: Vertex

Job ID: 885-26814-1

Project/Site: B Lee State #006

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 885-28381/3-A **Matrix: Solid** 

**Matrix: Solid** 

Analysis Batch: 28516

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 28381

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.10	mg/Kg		06/16/25 12:34	06/18/25 04:51	1

MR MR

MB MB

%Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 96 15 - 150 06/16/25 12:34 06/18/25 04:51

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 28381

Analysis Batch: 28516 LCS LCS Spike %Rec Added Result Qualifier Analyte Unit %Rec Limits Benzene 1.00 0.982 mg/Kg 98 70 - 130 Ethylbenzene 1.00 0.980 mg/Kg 98 70 - 130 m-Xylene & p-Xylene 2.00 2.03 mg/Kg 102 70 - 130 o-Xylene 1.00 0.995 mg/Kg 99 70 - 130 0.979 Toluene 1.00 mg/Kg 98 70 - 130

LCS LCS

%Recovery Surrogate Qualifier Limits 4-Bromofluorobenzene (Surr) 94 15 - 150

Lab Sample ID: 885-26814-2 MS Client Sample ID: BS25-06 at 3ft

**Matrix: Solid** 

**Analysis Batch: 28516** 

Prep Type: Total/NA

Prep Batch: 28381

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	ND		0.989	0.934		mg/Kg		94	70 - 130	
Ethylbenzene	ND		0.989	0.930		mg/Kg		94	70 - 130	
m-Xylene & p-Xylene	ND		1.98	1.93		mg/Kg		97	70 - 130	
o-Xylene	ND		0.989	0.933		mg/Kg		94	70 - 130	
Toluene	ND		0.989	0.925		mg/Kg		94	70 - 130	

MS MS

%Recovery Qualifier Limits Surrogate 15 - 150 4-Bromofluorobenzene (Surr) 89

Lab Sample ID: 885-26814-2 MSD Client Sample ID: BS25-06 at 3ft

**Matrix: Solid** 

Analysis Batch: 28516

Prep Type: Total/NA

MSD MSD

Prep Batch: 28381 %Rec **RPD** 

Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit Benzene ND 0.984 0.871 mg/Kg 88 70 - 130 7 20 Ethylbenzene ND 0.984 0.860 mg/Kg 87 70 - 130 8 20 ND 1.97 1.81 92 70 - 130 m-Xylene & p-Xylene mg/Kg 20 6 ND 0.984 0.871 89 70 - 130 20 o-Xylene mg/Kg ND 0.984 0.869 88 Toluene 70 - 130 20 mg/Kg

MSD MSD

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 92 15 - 150

Job ID: 885-26814-1 Client: Vertex

Project/Site: B Lee State #006

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-28453/1-A **Matrix: Solid** 

Analysis Batch: 28430

Client Sample ID: Method Blank Prep Type: Total/NA

mg/Kg

Prep Batch: 28453

Prep Type: Total/NA

Analyte Result Qualifier RLUnit D Prepared Analyzed Dil Fac Diesel Range Organics [C10-C28] ND 10 mg/Kg 06/17/25 10:31 06/18/25 04:07 Motor Oil Range Organics [C28-C40] ND 50 mg/Kg 06/17/25 10:31 06/18/25 04:07

MB MB

MB MB

Qualifier Limits Dil Fac Surrogate %Recovery Prepared Analyzed Di-n-octyl phthalate (Surr) 106 62 - 134 06/17/25 10:31 06/18/25 04:07

57.0

Client Sample ID: Lab Control Sample

51 - 148

114

Lab Sample ID: LCS 885-28453/2-A **Matrix: Solid** 

**Analysis Batch: 28430** 

Diesel Range Organics

Prep Batch: 28453 Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits

50.0

[C10-C28]

LCS LCS

Surrogate %Recovery Qualifier Limits Di-n-octyl phthalate (Surr) 112 62 - 134

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-28395/1-A Client Sample ID: Method Blank Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 28427** 

мв мв

Analyte Result Qualifier RL Unit D Dil Fac Prepared Analyzed Chloride ND 3.0 mg/Kg 06/16/25 14:30 06/17/25 08:44

Lab Sample ID: LCS 885-28395/2-A Client Sample ID: Lab Control Sample

**Matrix: Solid** Analysis Batch: 28427

LCS LCS Spike %Rec

Analyte Added Result Qualifier Unit D %Rec Limits 30.0 29.3 90 - 110 Chloride mg/Kg 98

Lab Sample ID: 885-26814-1 MS

**Matrix: Solid** 

**Analysis Batch: 28427** 

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 680 30.0 707 4 mg/Kg 50 - 150

Lab Sample ID: 885-26814-1 MSD

Released to Imaging: 8/20/2025 11:23:00 AM

**Analysis Batch: 28427** 

**Matrix: Solid** Prep Type: Total/NA Prep Batch: 28395

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 29.9 724 4 148 Chloride 680 mg/Kg 50 - 150

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Prep Batch: 28395

Prep Type: Total/NA

Prep Batch: 28395

Client Sample ID: BS25-04 3ft Prep Type: Total/NA

Prep Batch: 28395

Client Sample ID: BS25-04 3ft

### QC Sample Results

Client: Vertex Job ID: 885-26814-1

Project/Site: B Lee State #006

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 885-26814-2 MS

Client Sample ID: BS25-06 at 3ft

Matrix: Solid

Prep Type: Total/NA

Matrix: Solid
Analysis Batch: 28427
Sample Sample Spike MS MS MS %Rec

 Analyte
 Result
 Qualifier
 Added
 Result
 Qualifier
 Unit
 D
 %Rec

 Chloride
 380
 30.0
 405
 4
 mg/Kg
 68
 50 - 150

Lab Sample ID: 885-26814-2 MSD Client Sample ID: BS25-06 at 3ft

Matrix: Solid Prep Type: Total/NA

Analysis Batch: 28427 Prep Batch: 28395

Sample Sample Spike MSD MSD %Rec RPD Result Qualifier Added Result Qualifier Limits RPD Limit Analyte Unit D %Rec Chloride 380 30.0 413 4 mg/Kg 97 50 - 150 2

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# **QC Association Summary**

Client: Vertex Job ID: 885-26814-1

Project/Site: B Lee State #006

**GC VOA** 

Prep Batch: 28381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26814-1	BS25-04 3ft	Total/NA	Solid	5030C	_
885-26814-2	BS25-06 at 3ft	Total/NA	Solid	5030C	
885-26814-3	BS25-07 at 3ft	Total/NA	Solid	5030C	
885-26814-4	BS25-08 at 3ft	Total/NA	Solid	5030C	
MB 885-28381/3-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-28381/1-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-28381/2-A	Lab Control Sample	Total/NA	Solid	5030C	
885-26814-1 MS	BS25-04 3ft	Total/NA	Solid	5030C	
885-26814-1 MSD	BS25-04 3ft	Total/NA	Solid	5030C	
885-26814-2 MS	BS25-06 at 3ft	Total/NA	Solid	5030C	
885-26814-2 MSD	BS25-06 at 3ft	Total/NA	Solid	5030C	

Analysis Batch: 28515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26814-1	BS25-04 3ft	Total/NA	Solid	8015M/D	28381
885-26814-2	BS25-06 at 3ft	Total/NA	Solid	8015M/D	28381
885-26814-3	BS25-07 at 3ft	Total/NA	Solid	8015M/D	28381
885-26814-4	BS25-08 at 3ft	Total/NA	Solid	8015M/D	28381
MB 885-28381/3-A	Method Blank	Total/NA	Solid	8015M/D	28381
LCS 885-28381/1-A	Lab Control Sample	Total/NA	Solid	8015M/D	28381
885-26814-1 MS	BS25-04 3ft	Total/NA	Solid	8015M/D	28381
885-26814-1 MSD	BS25-04 3ft	Total/NA	Solid	8015M/D	28381

**Analysis Batch: 28516** 

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26814-1	BS25-04 3ft	Total/NA	Solid	8021B	28381
885-26814-2	BS25-06 at 3ft	Total/NA	Solid	8021B	28381
885-26814-3	BS25-07 at 3ft	Total/NA	Solid	8021B	28381
885-26814-4	BS25-08 at 3ft	Total/NA	Solid	8021B	28381
MB 885-28381/3-A	Method Blank	Total/NA	Solid	8021B	28381
LCS 885-28381/2-A	Lab Control Sample	Total/NA	Solid	8021B	28381
885-26814-2 MS	BS25-06 at 3ft	Total/NA	Solid	8021B	28381
885-26814-2 MSD	BS25-06 at 3ft	Total/NA	Solid	8021B	28381

**GC Semi VOA** 

Analysis Batch: 28430

Lab Sample ID 885-26814-1	Client Sample ID BS25-04 3ft	Prep Type Total/NA	Matrix Solid	Method 8015M/D	Prep Batch 28453
885-26814-2	BS25-06 at 3ft	Total/NA	Solid	8015M/D	28453
885-26814-3	BS25-07 at 3ft	Total/NA	Solid	8015M/D	28453
885-26814-4	BS25-08 at 3ft	Total/NA	Solid	8015M/D	28453
MB 885-28453/1-A	Method Blank	Total/NA	Solid	8015M/D	28453
LCS 885-28453/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	28453

Prep Batch: 28453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26814-1	BS25-04 3ft	Total/NA	Solid	SHAKE	
885-26814-2	BS25-06 at 3ft	Total/NA	Solid	SHAKE	
885-26814-3	BS25-07 at 3ft	Total/NA	Solid	SHAKE	
885-26814-4	BS25-08 at 3ft	Total/NA	Solid	SHAKE	

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# **QC Association Summary**

Client: Vertex Job ID: 885-26814-1

Project/Site: B Lee State #006

## GC Semi VOA (Continued)

### Prep Batch: 28453 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-28453/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-28453/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

### HPLC/IC

### Prep Batch: 28395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26814-1	BS25-04 3ft	Total/NA	Solid	300_Prep	_
885-26814-2	BS25-06 at 3ft	Total/NA	Solid	300_Prep	
885-26814-3	BS25-07 at 3ft	Total/NA	Solid	300_Prep	
885-26814-4	BS25-08 at 3ft	Total/NA	Solid	300_Prep	
MB 885-28395/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-28395/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-26814-1 MS	BS25-04 3ft	Total/NA	Solid	300_Prep	
885-26814-1 MSD	BS25-04 3ft	Total/NA	Solid	300_Prep	
885-26814-2 MS	BS25-06 at 3ft	Total/NA	Solid	300_Prep	
885-26814-2 MSD	BS25-06 at 3ft	Total/NA	Solid	300_Prep	

### **Analysis Batch: 28427**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26814-1	BS25-04 3ft	Total/NA	Solid	300.0	28395
885-26814-2	BS25-06 at 3ft	Total/NA	Solid	300.0	28395
885-26814-3	BS25-07 at 3ft	Total/NA	Solid	300.0	28395
885-26814-4	BS25-08 at 3ft	Total/NA	Solid	300.0	28395
MB 885-28395/1-A	Method Blank	Total/NA	Solid	300.0	28395
LCS 885-28395/2-A	Lab Control Sample	Total/NA	Solid	300.0	28395
885-26814-1 MS	BS25-04 3ft	Total/NA	Solid	300.0	28395
885-26814-1 MSD	BS25-04 3ft	Total/NA	Solid	300.0	28395
885-26814-2 MS	BS25-06 at 3ft	Total/NA	Solid	300.0	28395
885-26814-2 MSD	BS25-06 at 3ft	Total/NA	Solid	300.0	28395

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1'

Project/Site: B Lee State #006

Client: Vertex

Client Sample ID: BS25-04 3ft

Lab Sample ID: 885-26814-1 Date Collected: 06/10/25 15:20

Matrix: Solid

Date Received: 06/14/25 07:53

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			28381	CM	EET ALB	06/16/25 12:34
Total/NA	Analysis	8015M/D		1	28515	JP	EET ALB	06/18/25 05:15
Total/NA	Prep	5030C			28381	CM	EET ALB	06/16/25 12:34
Total/NA	Analysis	8021B		1	28516	JP	EET ALB	06/18/25 05:15
Total/NA	Prep	SHAKE			28453	MI	EET ALB	06/17/25 10:31
Total/NA	Analysis	8015M/D		1	28430	MI	EET ALB	06/18/25 04:29
Total/NA	Prep	300_Prep			28395	KB	EET ALB	06/16/25 14:30
Total/NA	Analysis	300.0		20	28427	RC	EET ALB	06/17/25 09:09

Client Sample ID: BS25-06 at 3ft

Lab Sample ID: 885-26814-2 Date Collected: 06/10/25 15:40

**Matrix: Solid** 

Date Received: 06/14/25 07:53

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			28381	CM	EET ALB	06/16/25 12:34
Total/NA	Analysis	8015M/D		1	28515	JP	EET ALB	06/18/25 06:27
Total/NA	Prep	5030C			28381	CM	EET ALB	06/16/25 12:34
Total/NA	Analysis	8021B		1	28516	JP	EET ALB	06/18/25 06:27
Total/NA	Prep	SHAKE			28453	MI	EET ALB	06/17/25 10:31
Total/NA	Analysis	8015M/D		1	28430	MI	EET ALB	06/18/25 04:41
Total/NA	Prep	300_Prep			28395	KB	EET ALB	06/16/25 14:30
Total/NA	Analysis	300.0		20	28427	RC	EET ALB	06/17/25 09:40

Client Sample ID: BS25-07 at 3ft

Lab Sample ID: 885-26814-3 Date Collected: 06/10/25 15:45 **Matrix: Solid** 

Date Received: 06/14/25 07:53

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			28381	CM	EET ALB	06/16/25 12:34
Total/NA	Analysis	8015M/D		1	28515	JP	EET ALB	06/18/25 07:37
Total/NA	Prep	5030C			28381	CM	EET ALB	06/16/25 12:34
Total/NA	Analysis	8021B		1	28516	JP	EET ALB	06/18/25 07:37
Total/NA	Prep	SHAKE			28453	MI	EET ALB	06/17/25 10:31
Total/NA	Analysis	8015M/D		1	28430	MI	EET ALB	06/18/25 04:52
Total/NA	Prep	300_Prep			28395	KB	EET ALB	06/16/25 14:30
Total/NA	Analysis	300.0		20	28427	RC	EET ALB	06/17/25 10:11

Client Sample ID: BS25-08 at 3ft

Lab Sample ID: 885-26814-4

**Matrix: Solid** 

Date Collected: 06/10/25 15:50 Date Received: 06/14/25 07:53

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			28381	СМ	EET ALB	06/16/25 12:34
Total/NA	Analysis	8015M/D		1	28515	JP	EET ALB	06/18/25 08:01

### **Lab Chronicle**

Client: Vertex Job ID: 885-26814-1

Project/Site: B Lee State #006

Date Received: 06/14/25 07:53

Client Sample ID: BS25-08 at 3ft

Lab Sample ID: 885-26814-4 Date Collected: 06/10/25 15:50 Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			28381	СМ	EET ALB	06/16/25 12:34
Total/NA	Analysis	8021B		1	28516	JP	EET ALB	06/18/25 08:01
Total/NA	Prep	SHAKE			28453	MI	EET ALB	06/17/25 10:31
Total/NA	Analysis	8015M/D		1	28430	MI	EET ALB	06/18/25 05:03
Total/NA	Prep	300_Prep			28395	KB	EET ALB	06/16/25 14:30
_Total/NA	Analysis	300.0		20	28427	RC	EET ALB	06/17/25 10:21

#### Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

# **Accreditation/Certification Summary**

Client: Vertex Job ID: 885-26814-1

Project/Site: B Lee State #006

### **Laboratory: Eurofins Albuquerque**

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Progr	Identification Number	<b>Expiration Date</b>			
New Mexico	State		NM9425, NM0901	02-27-26		
0 ,	are included in this report, b	ut the laboratory is not certif	ied by the governing authority. This lis	st may include analytes		
Analysis Method	Prep Method	Matrix	Analyte			
300.0	300_Prep Solid		Chloride			
8015M/D	5030C	Solid	Gasoline Range Organics	(GRO)-C6-C10		
8015M/D	SHAKE	Solid	Diesel Range Organics [C	10-C28]		
8015M/D	SHAKE	Solid	Motor Oil Range Organics	[C28-C40]		
8021B	5030C	Solid	Benzene			
8021B	5030C	Solid	Ethylbenzene			
8021B	5030C	Solid	Toluene			
8021B	5030C	Solid	Xylenes, Total			
regon	NELA	<b>ι</b> Ρ	NM100001	02-26-26		

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<b>Chain-of-Custody Record</b>		Turn-Around Time:				HALL ENVIRONMENTAL														
Client:	Vertex	(bill to [	Devon Energy, Jim Raley)		X Rush	48hr		-			-									
			Project Name:			www.hallenvironmental.com														
Mailing	Mailing Address: 3101 Boyd Dr			B Lee State #006			4901 Hawkins NE - Albuquerque, NM 87													
			Carlsbad, New Mexico Project #:					Tel. 505-345-3975 Fax 505-345-4107 885-26814 CO									4.000			
Phone	#:		575.725.5001	25A-01934														00-2001	4000	
email o	r Fax#:			Project Mana	ager:			=	6				SO,			E)				
QA/QC	Package: idard		□ Level 4 (Full Validation)	Sally Cartta	r ertexresource.c	<u>com</u>		TMB's (8021)	O/MR	PCB's		82/0SIMS	PO.			Coliform (Present/Absent)				
Accred		☐ Az Co☐ Other	empliance	Sampler: Sharon Minnix On Ice:  PYes  No					O / DR	\$/8082	9	<u> </u>	NO <sub>2</sub>		(A)	Preser				
	(Type) _	- Other		# of Coolers:			Mejo	MTBE	(GR	ides		5 :	NO <sub>3</sub> .		8	E				
					(including CF): 5.	1+0-2=	5.3%	Σ	15D	estic	(Method	by 8310	Br.	OA	emi	읡				
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEA	L No.	À	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082	EDB (M	PAHS D	CDF, Br. NO.	8260 (VOA)	8270 (Semi-VOA)	Total Co			. 1.	
6.10.25	15:20	Soil	BS25-04 3ft	1, 4oz jar	ICE	-1		х	Х				Х							
6.10.25	15:40	Soil	BS25-06 at 3ft	1, 4oz jar	ICE	-2	,	х	х				x							
6.10.25	15:45	Soil	BS25-07 at 3ft	1, 4oz jar	ICE	-3		х	x				х							
6.10.25	15:50	Soil	BS25-08 at 3ft	1, 4oz jar	ICE	-4		X	Х		+		X							
		-																		
											+									
Date: Time: Relinquished by:  Bhb 800 Howon Minny  Date: Time: Relinquished by:  Bhb 1900 Cullinguished by:		Received by: Via: Date Time  Widdle BbD  Received by: Via: Date Time  Ululize  Time  Via: Date Time  Via: Date Time  Via: Date Time  Via: Date Time			Remarks: Direct Bill to Mack Energy ATTN: Matt Buckles CC.Sally Carttar (SCarttar@vertexresource.com),  — Permian@vertexresource.com, and Sharon Minnix (SMinnix@vertexresource.com) for Final Report.															











## **Login Sample Receipt Checklist**

Client: Vertex Job Number: 885-26814-1

SDG Number:

Login Number: 26814 List Source: Eurofins Albuquerque

List Number: 1

**Creator: Proctor, Nancy** 

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

6/18/2025

**Environment Testing** 

# **ANALYTICAL REPORT**

# PREPARED FOR

Attn: Ms. Sally Carttar Vertex 3101 Boyd Dr Carlsbad, New Mexico 88220

Generated 6/18/2025 7:28:17 PM

# **JOB DESCRIPTION**

B Lee State #006

# **JOB NUMBER**

885-26816-1

Eurofins Albuquerque 4901 Hawkins NE Albuquerque NM 87109

# **Eurofins Albuquerque**

# **Job Notes**

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

# **Authorization**

Generated 6/18/2025 7:28:17 PM

Authorized for release by Cheyenne Cason, Project Manager cheyenne.cason@et.eurofinsus.com (505)338-8812

6/18/2025

Client: Vertex
Laboratory Job ID: 885-26816-1
Project/Site: B Lee State #006

# **Table of Contents**

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### **Definitions/Glossary**

Client: Vertex Job ID: 885-26816-1

Project/Site: B Lee State #006

**Qualifiers** 

**GC Semi VOA** 

Qualifier **Qualifier Description** 

Surrogate recovery exceeds control limits, high biased.

**Glossary** 

Abbreviation These commonly used abbreviations may or may not be present in this report. Listed under the "D" column to designate that the result is reported on a dry weight basis

Percent Recovery %R CFL Contains Free Liquid CFU Colony Forming Unit **CNF** Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor** 

Detection Limit (DoD/DOE) DL

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

Estimated Detection Limit (Dioxin) EDL LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level" MCL MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit ML Minimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

**PRES** Presumptive QC **Quality Control** 

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) **TEQ** Toxicity Equivalent Quotient (Dioxin)

**TNTC** Too Numerous To Count

#### **Case Narrative**

Client: Vertex Job ID: 885-26816-1

Project: B Lee State #006

**Eurofins Albuquerque** Job ID: 885-26816-1

#### Job Narrative 885-26816-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

#### Receipt

The samples were received on 6/14/2025 7:53 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.3°C.

#### **Gasoline Range Organics**

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### **Diesel Range Organics**

Method 8015D DRO: Surrogate recovery was outside acceptance limits for the following matrix spike/matrix spike duplicate (MS/MSD) samples: WS25-06 at 0-3ft (885-26816-15), (885-26816-A-15-D MS) and (885-26816-A-15-E MSD). The parent sample's surrogate recovery was within limits. The MS/MSD sample has been qualified and reported. Furthermore, the LCS was within limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client: Vertex Job ID: 885-26816-1

Project/Site: B Lee State #006

Client Sample ID: TP25-28 at 0ft

Date Collected: 06/12/25 09:50 Date Received: 06/14/25 07:53

4-Bromofluorobenzene (Surr)

Lab Sample ID: 885-26816-1

Analyzed

06/18/25 08:24

Prepared

06/16/25 12:34

Matrix: Solid

Method: SW846 8015M/D - Gas	soline Range Org	anics (GRC	) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	MD		4.9	mg/Kg		06/16/25 12:34	06/18/25 08:24	1
(GRO)-C6-C10								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		15 - 150			06/16/25 12:34	06/18/25 08:24	1
– Method: SW846 8021B - Volati	•	• • •	)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/16/25 12:34	06/18/25 08:24	1
Ethylbenzene	ND		0.049	mg/Kg		06/16/25 12:34	06/18/25 08:24	1
Toluene	ND		0.049	mg/Kg		06/16/25 12:34	06/18/25 08:24	1
Xvlenes, Total	ND		0.098	mg/Kg		06/16/25 12:34	06/18/25 08:24	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		06/17/25 10:31	06/18/25 05:25	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		06/17/25 10:31	06/18/25 05:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	108		62 - 134			06/17/25 10:31	06/18/25 05:25	1

Limits

15 - 150

%Recovery Qualifier

89

mothod: El A 000.0 Amono, ion o	momatograp	,						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	230		60	mg/Kg		06/16/25 14:30	06/17/25 11:02	20

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Dil Fac

Client: Vertex Job ID: 885-26816-1

Project/Site: B Lee State #006

Client Sample ID: BS25-05 at 3ft

Date Collected: 06/12/25 13:30 Date Received: 06/14/25 07:53 Lab Sample ID: 885-26816-2

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		06/16/25 12:34	06/18/25 08:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		15 - 150			06/16/25 12:34	06/18/25 08:48	1

Method: SW846 8021B - Volat	ile Organic Comp	ounds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		06/16/25 12:34	06/18/25 08:48	1
Ethylbenzene	ND		0.048	mg/Kg		06/16/25 12:34	06/18/25 08:48	1
Toluene	ND		0.048	mg/Kg		06/16/25 12:34	06/18/25 08:48	1
Xylenes, Total	ND		0.097	mg/Kg		06/16/25 12:34	06/18/25 08:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		15 - 150			06/16/25 12:34	06/18/25 08:48	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5	mg/Kg		06/17/25 10:31	06/18/25 05:36	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		06/17/25 10:31	06/18/25 05:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	116		62 - 134			06/17/25 10:31	06/18/25 05:36	1

Method: EPA 300.0 - Anions, Ion Cl	hromatography						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	190	60	mg/Kg		06/16/25 14:30	06/17/25 11:13	20

Client: Vertex Job ID: 885-26816-1

Project/Site: B Lee State #006

Client Sample ID: BS25-20 at 3ft

Date Collected: 06/12/25 11:50 Date Received: 06/14/25 07:53

Surrogate

4-Bromofluorobenzene (Surr)

Lab Sample ID: 885-26816-3

Analyzed

06/18/25 09:11

Prepared

06/16/25 12:34

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	ND		4.9	mg/Kg		06/16/25 12:34	06/18/25 09:11	1
(GRO)-C6-C10								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)  Method: SW846 8021B - Volatil	95 le Organic Comp	ounds (GC)	15 - 150			06/16/25 12:34	06/18/25 09:11	1
	le Organic Comp	ounds (GC) Qualifier	15 <sub>-</sub> 150	Unit	D	06/16/25 12:34 Prepared	06/18/25 09:11  Analyzed	Dil Fac
Method: SW846 8021B - Volatil	le Organic Comp	. ,		Unit mg/Kg	<u>D</u>			Dil Fac
Method: SW846 8021B - Volatil Analyte	le Organic Comp	. ,	RL		<u>D</u>	Prepared	Analyzed	1 Dil Fac
Method: SW846 8021B - Volatil Analyte Benzene	le Organic Comp Result ND	. ,	RL 0.024	mg/Kg	<u>D</u>	Prepared 06/16/25 12:34	<b>Analyzed</b> 06/18/25 09:11	Dil Fac 1 1 1 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9	mg/Kg		06/17/25 10:31	06/18/25 05:47	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		06/17/25 10:31	06/18/25 05:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	118		62 - 134			06/17/25 10:31	06/18/25 05:47	

Limits

15 - 150

%Recovery Qualifier

91

motifica. El A 000.0 Amono, ion o	in omatograpi	,						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	150		60	mg/Kg		06/16/25 14:30	06/17/25 11:23	20

Eurofins Albuquerque

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Dil Fac

Client: Vertex Job ID: 885-26816-1

Project/Site: B Lee State #006

Client Sample ID: BS25-16 at 3ft

Date Collected: 06/12/25 13:40 Date Received: 06/14/25 07:53 Lab Sample ID: 885-26816-4

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		06/16/25 12:34	06/18/25 09:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		15 - 150			06/16/25 12:34	06/18/25 09:34	1

Method: SW846 8021B - Volati	ile Organic Comp	ounds (GC)	)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/16/25 12:34	06/18/25 09:34	1
Ethylbenzene	ND		0.050	mg/Kg		06/16/25 12:34	06/18/25 09:34	1
Toluene	ND		0.050	mg/Kg		06/16/25 12:34	06/18/25 09:34	1
Xylenes, Total	ND		0.10	mg/Kg		06/16/25 12:34	06/18/25 09:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			15 - 150			06/16/25 12:34	06/18/25 09:34	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	26		9.4	mg/Kg		06/17/25 10:31	06/18/25 05:57	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		06/17/25 10:31	06/18/25 05:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	121		62 - 134			06/17/25 10:31	06/18/25 05:57	1

Method: EPA 300.0 - Anions, Ion Cl	hromatography						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	180	60	mg/Kg		06/16/25 14:30	06/17/25 11:33	20

Client: Vertex Job ID: 885-26816-1

Project/Site: B Lee State #006

Client Sample ID: WS25-03 at 0-3ft

Date Collected: 06/12/25 13:00 Date Received: 06/14/25 07:53 Lab Sample ID: 885-26816-5

Matrix: Solid

	Dil Fac	5
-		

Method: SW846 8015M/D - Gas	soline Range Org	anics (GRC	)) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8	mg/Kg		06/16/25 12:34	06/18/25 09:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		15 - 150			06/16/25 12:34	06/18/25 09:58	1

Method: SW846 8021B - Volat	ile Organic Compo	ounds (GC)	)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		06/16/25 12:34	06/18/25 09:58	1
Ethylbenzene	ND		0.048	mg/Kg		06/16/25 12:34	06/18/25 09:58	1
Toluene	ND		0.048	mg/Kg		06/16/25 12:34	06/18/25 09:58	1
Xylenes, Total	ND		0.096	mg/Kg		06/16/25 12:34	06/18/25 09:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		15 - 150			06/16/25 12:34	06/18/25 09:58	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		06/17/25 10:31	06/18/25 06:08	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		06/17/25 10:31	06/18/25 06:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	110		62 - 134			06/17/25 10:31	06/18/25 06:08	1

Wethou. EPA 300.0 - Amons, fon C	inomatograp	illy						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	100		60	mg/Kg		06/16/25 14:30	06/17/25 11:44	20

Client: Vertex Job ID: 885-26816-1

Project/Site: B Lee State #006

Client Sample ID: BS25-03 at 3ft

Date Collected: 06/12/25 13:10 Date Received: 06/14/25 07:53 Lab Sample ID: 885-26816-6

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.7	mg/Kg		06/16/25 12:34	06/18/25 10:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92	- <del></del>	15 - 150			06/16/25 12:34	06/18/25 10:22	1

Method: SW846 8021B - Volati	ile Organic Compounds (	GC)					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND ND	0.024	mg/Kg		06/16/25 12:34	06/18/25 10:22	1
Ethylbenzene	ND	0.047	mg/Kg		06/16/25 12:34	06/18/25 10:22	1
Toluene	ND	0.047	mg/Kg		06/16/25 12:34	06/18/25 10:22	1
Xylenes, Total	ND	0.095	mg/Kg		06/16/25 12:34	06/18/25 10:22	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89	15 - 150			06/16/25 12:34	06/18/25 10:22	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	19		9.7	mg/Kg		06/17/25 10:31	06/18/25 06:30	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		06/17/25 10:31	06/18/25 06:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	116		62 - 134			06/17/25 10:31	06/18/25 06:30	1

Wethou. EPA 300.0 - Amons, fon Ci	inomatograpny						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	110	60	mg/Kg		06/16/25 14:30	06/17/25 11:54	20

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Client: Vertex Job ID: 885-26816-1

Project/Site: B Lee State #006

Client Sample ID: BS25-28 at 3ft

Released to Imaging: 8/20/2025 11:23:00 AM

Date Collected: 06/12/25 13:20 Date Received: 06/14/25 07:53

Lab Sample ID: 885-26816-7

Matrix: Solid

Method: SW846 8015M/D - Gas	soline Range Org	anics (GRC	O) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		06/16/25 12:34	06/18/25 11:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		15 - 150			06/16/25 12:34	06/18/25 11:09	1

Analyte	Result Q	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/16/25 12:34	06/18/25 11:09	1
Ethylbenzene	ND		0.050	mg/Kg		06/16/25 12:34	06/18/25 11:09	1
Toluene	ND		0.050	mg/Kg		06/16/25 12:34	06/18/25 11:09	1
Xylenes, Total	ND		0.10	mg/Kg		06/16/25 12:34	06/18/25 11:09	1
Surrogate	%Recovery Q	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			15 - 150			06/16/25 12:34	06/18/25 11:09	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		06/17/25 10:31	06/18/25 06:40	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		06/17/25 10:31	06/18/25 06:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	120		62 - 134			06/17/25 10:31	06/18/25 06:40	1

Method: EPA 300.0 - Anions, Ion Cl	hromatography						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	60	mg/Kg		06/16/25 14:30	06/17/25 12:04	20

Client: Vertex Job ID: 885-26816-1

Project/Site: B Lee State #006

Client Sample ID: BS25-14 at 3ft

Date Collected: 06/12/25 13:50 Date Received: 06/14/25 07:53 Lab Sample ID: 885-26816-8

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9	mg/Kg		06/16/25 12:34	06/18/25 11:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		15 - 150			06/16/25 12:34	06/18/25 11:32	1

Method: SW846 8021B - Volat	ile Organic Compo	unds (GC)						
Analyte	Result (	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		06/16/25 12:34	06/18/25 11:32	1
Ethylbenzene	ND		0.049	mg/Kg		06/16/25 12:34	06/18/25 11:32	1
Toluene	ND		0.049	mg/Kg		06/16/25 12:34	06/18/25 11:32	1
Xylenes, Total	ND		0.098	mg/Kg		06/16/25 12:34	06/18/25 11:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		15 - 150			06/16/25 12:34	06/18/25 11:32	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	27		9.8	mg/Kg		06/17/25 10:31	06/18/25 06:51	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		06/17/25 10:31	06/18/25 06:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	114		62 - 134			06/17/25 10:31	06/18/25 06:51	1

Method: EPA 300.0 - Anions, Ion C	hromatography						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	190	60	mg/Kg		06/16/25 14:30	06/17/25 12:15	20

Client: Vertex Job ID: 885-26816-1

Project/Site: B Lee State #006

Client Sample ID: BS25-17 at 3ft

Date Collected: 06/12/25 11:40 Date Received: 06/14/25 07:53 Lab Sample ID: 885-26816-9

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
		- Qualifier				<u>.</u>		
Gasoline Range Organics	ND		4.8	mg/Kg		06/16/25 13:38	06/18/25 11:56	1
(GRO)-C6-C10								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		15 - 150			06/16/25 13:38	06/18/25 11:56	1
Method: SW846 8021B - Volati Analyte		ounds (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result		RL		D			Dil Fac
<b>Analyte</b> Benzene	Result ND		RL 0.024	mg/Kg	<u>D</u>	06/16/25 13:38	06/18/25 11:56	Dil Fac
Analyte	Result		RL		<u>D</u>			Dil Fac
Analyte Benzene	Result ND		RL 0.024	mg/Kg	<u>D</u>	06/16/25 13:38	06/18/25 11:56	Dil Fac 1 1 1
Analyte Benzene Ethylbenzene	Result ND ND		0.024 0.048	mg/Kg mg/Kg	<u>D</u>	06/16/25 13:38 06/16/25 13:38	06/18/25 11:56 06/18/25 11:56	Dil Fac 1 1 1 1
Analyte Benzene Ethylbenzene Toluene	Result ND ND ND	Qualifier	RL 0.024 0.048 0.048	mg/Kg mg/Kg mg/Kg	<u>D</u>	06/16/25 13:38 06/16/25 13:38 06/16/25 13:38	06/18/25 11:56 06/18/25 11:56 06/18/25 11:56	Dil Fac  1 1 1 1 Dil Fac

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	30		9.7	mg/Kg		06/17/25 10:31	06/18/25 07:02	
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		06/17/25 10:31	06/18/25 07:02	,
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
Di-n-octyl phthalate (Surr)	118		62 - 134			06/17/25 10:31	06/18/25 07:02	

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	360	60	mg/Kg		06/16/25 14:30	06/17/25 12:25	20

Client: Vertex Job ID: 885-26816-1

Project/Site: B Lee State #006

Client Sample ID: TP25-28 at 4ft

Lab Sample ID: 885-26816-10 Date Collected: 06/12/25 10:10

Matrix: Solid Date Received: 06/14/25 07:53

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC) Result Qualifier RL Unit D Prepared Analyzed Dil Fac 4.8 06/16/25 13:38 Gasoline Range Organics ND mg/Kg 06/18/25 12:19 (GRO)-C6-C10 Qualifier Surrogate %Recovery Limits Prepared Analyzed Dil Fac 06/16/25 13:38 06/18/25 12:19 4-Bromofluorobenzene (Surr) 93 15 - 150 Method: SW846 8021B - Volatile Organic Compounds (GC) Result Qualifier RL Unit D Dil Fac Analyte Prepared Analyzed ND Benzene 0.024 06/16/25 13:38 06/18/25 12:19 mg/Kg Ethylbenzene ND 0.048 mg/Kg 06/16/25 13:38 06/18/25 12:19 Toluene ND 0.048 06/16/25 13:38 06/18/25 12:19 mg/Kg Xylenes, Total ND 0.096 mg/Kg 06/16/25 13:38 06/18/25 12:19 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 90 15 - 150 06/16/25 13:38 06/18/25 12:19

ı	Method: SW846 8015M/D - Diesel	Range Organ	ics (DRO) ((	GC)					
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Diesel Range Organics [C10-C28]	ND		9.9	mg/Kg		06/17/25 10:31	06/18/25 07:12	1
	Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		06/17/25 10:31	06/18/25 07:12	1
	Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
	Di-n-octyl phthalate (Surr)	113		62 - 134			06/17/25 10:31	06/18/25 07:12	1

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		06/16/25 14:30	06/17/25 12:56	20

Client: Vertex Job ID: 885-26816-1

Project/Site: B Lee State #006

Client Sample ID: BS25-22 at 3ft

Lab Sample ID: 885-26816-11 Date Collected: 06/12/25 12:00

Matrix: Solid

Analyzed

06/17/25 10:31 06/18/25 07:23

Prepared

Date Received: 06/14/25 07:53

Surrogate

Di-n-octyl phthalate (Surr)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	ND		4.9	mg/Kg		06/16/25 13:38	06/18/25 12:42	1
(GRO)-C6-C10								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		15 - 150			06/16/25 13:38	06/18/25 12:42	1
Method: SW846 8021B - Volatile (	Organic Comp	ounds (GC)	)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/16/25 13:38	06/18/25 12:42	1
Ethylbenzene	ND		0.049	mg/Kg		06/16/25 13:38	06/18/25 12:42	1
Toluene	ND		0.049	mg/Kg		06/16/25 13:38	06/18/25 12:42	1
Xylenes, Total	ND		0.098	mg/Kg		06/16/25 13:38	06/18/25 12:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		15 - 150			06/16/25 13:38	06/18/25 12:42	1
Method: SW846 8015M/D - Diesel	Range Organ	ics (DRO) (	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	10		10	mg/Kg		06/17/25 10:31	06/18/25 07:23	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		06/17/25 10:31	06/18/25 07:23	1

Method: EPA 300.0 - Anions, Ion C	Chromatography						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	200	60	mg/Kg		06/16/25 14:30	06/17/25 13:07	20

Limits

62 - 134

%Recovery Qualifier

112

Eurofins Albuquerque

Dil Fac

Client: Vertex Job ID: 885-26816-1

Project/Site: B Lee State #006

Client Sample ID: TP25-28 at 2ft

Date Collected: 06/12/25 10:00 Date Received: 06/14/25 07:53 Lab Sample ID: 885-26816-12

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	MD		5.0	mg/Kg		06/16/25 13:38	06/18/25 13:06	1
(GRO)-C6-C10								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92	-	15 - 150			06/16/25 13:38	06/18/25 13:06	1

Method: SW846 8021B - Volat	ile Organic Comp	ounds (GC)	)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/16/25 13:38	06/18/25 13:06	1
Ethylbenzene	ND		0.050	mg/Kg		06/16/25 13:38	06/18/25 13:06	1
Toluene	ND		0.050	mg/Kg		06/16/25 13:38	06/18/25 13:06	1
Xylenes, Total	ND		0.099	mg/Kg		06/16/25 13:38	06/18/25 13:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		15 - 150			06/16/25 13:38	06/18/25 13:06	1

Method: SW846 8015M/D - Diesel	i Kange Organ	ics (DRO) (	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7	mg/Kg		06/17/25 10:31	06/18/25 07:34	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		06/17/25 10:31	06/18/25 07:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	119		62 - 134			06/17/25 10:31	06/18/25 07:34	1

Method: EPA 300.0 - Anions, Ion Ch	nromatograp	hy						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	390		60	mg/Kg		06/16/25 14:30	06/17/25 13:17	20

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Client: Vertex Job ID: 885-26816-1

Project/Site: B Lee State #006

Client Sample ID: BS25-19 at 3ft

Method: EPA 300.0 - Anions, Ion Chromatography

Result Qualifier

280

Analyte

Chloride

Lab Sample ID: 885-26816-13 Date Collected: 06/12/25 11:30

Matrix: Solid

Date Received: 06/14/25 07:53

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	ND		4.8	mg/Kg		06/16/25 13:38	06/18/25 13:29	1
(GRO)-C6-C10								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		15 - 150			06/16/25 13:38	06/18/25 13:29	1
Method: SW846 8021B - Volatile (	Organic Comp	ounds (GC)	)					
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		06/16/25 13:38	06/18/25 13:29	1
Ethylbenzene	ND		0.048	mg/Kg		06/16/25 13:38	06/18/25 13:29	1
Toluene	ND		0.048	mg/Kg		06/16/25 13:38	06/18/25 13:29	1
Xylenes, Total	ND		0.097	mg/Kg		06/16/25 13:38	06/18/25 13:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		15 - 150			06/16/25 13:38	06/18/25 13:29	1
Method: SW846 8015M/D - Diesel	Range Organ	ics (DRO) (	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9	mg/Kg		06/17/25 10:31	06/18/25 07:45	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		06/17/25 10:31	06/18/25 07:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	116		62 - 134			06/17/25 10:31	06/18/25 07:45	

RL

60

Unit

mg/Kg

Prepared

06/16/25 14:30

Analyzed

06/17/25 13:27

Dil Fac

Client: Vertex Job ID: 885-26816-1

Project/Site: B Lee State #006

Date Received: 06/14/25 07:53

Client Sample ID: BS25-09 at 3ft

Lab Sample ID: 885-26816-14 Date Collected: 06/13/25 07:00

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	ND		4.8	mg/Kg		06/16/25 13:38	06/18/25 13:53	1
(GRO)-C6-C10								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		15 - 150			06/16/25 13:38	06/18/25 13:53	1
Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: SW846 8021B - Volat	•			Unit	n	Prenared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		06/16/25 13:38	06/18/25 13:53	1
Ethylbenzene	ND		0.048	mg/Kg		06/16/25 13:38	06/18/25 13:53	1
Toluene	ND		0.048	mg/Kg		06/16/25 13:38	06/18/25 13:53	1
Xylenes, Total	ND		0.096	mg/Kg		06/16/25 13:38	06/18/25 13:53	1
	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Surrogate			15 - 150			06/16/25 13:38	06/18/25 13:53	

Analyte	Result (	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	38		9.6	mg/Kg		06/17/25 10:31	06/18/25 07:56	1
Motor Oil Range Organics [C28-C40]	86		48	mg/Kg		06/17/25 10:31	06/18/25 07:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	123		62 - 134			06/17/25 10:31	06/18/25 07:56	1

moundar = 77 cools 7 mione, ion o	in omatograpity						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	220	60	mg/Kg		06/16/25 14:34	06/17/25 13:38	20

%Recovery Qualifier

89

Project/Site: B Lee State #006

Client Sample ID: WS25-06 at 0-3ft

Date Collected: 06/13/25 07:10 Date Received: 06/14/25 07:53

Surrogate

4-Bromofluorobenzene (Surr)

Released to Imaging: 8/20/2025 11:23:00 AM

Lab Sample ID: 885-26816-15

Analyzed

06/18/25 14:16

Prepared

06/16/25 13:38

Matrix: Solid

Job ID: 885-26816-1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	ND		4.9	mg/Kg		06/16/25 13:38	06/18/25 14:16	1
(GRO)-C6-C10								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)  Method: SW846 8021B - Volati	93	ounds (GC)	15 - 150			06/16/25 13:38	06/18/25 14:16	1
4-Bromofluorobenzene (Surr)  Method: SW846 8021B - Volati Analyte	ile Organic Comp	ounds (GC) Qualifier		Unit	D	06/16/25 13:38  Prepared	06/18/25 14:16  Analyzed	1 Dil Fac
Method: SW846 8021B - Volati	ile Organic Comp			Unit mg/Kg	<u>D</u>			Dil Fac
Method: SW846 8021B - Volati Analyte	ile Organic Compo		RL		<u>D</u>	Prepared	Analyzed	1 Dil Fac 1
Method: SW846 8021B - Volati Analyte Benzene	ile Organic Compo		RL 0.025	mg/Kg	<u>D</u>	Prepared 06/16/25 13:38	<b>Analyzed</b> 06/18/25 14:16	1 Dil Fac 1 1 1 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7	mg/Kg		06/17/25 10:31	06/18/25 08:07	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		06/17/25 10:31	06/18/25 08:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	126		62 - 134			06/17/25 10:31	06/18/25 08:07	

Limits

15 - 150

mothod: El A 000.0 Amono, ion o	nomatography	•					
Analyte	Result Qu	ualifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	60	mg/Kg		06/16/25 14:34	06/17/25 13:48	20

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11

Dil Fac

Prep Batch: 28381

Prep Batch: 28381

Client: Vertex

Job ID: 885-26816-1 Project/Site: B Lee State #006

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-28381/3-A Client Sample ID: Method Blank Prep Type: Total/NA

**Matrix: Solid Analysis Batch: 28515** 

MB MB Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Gasoline Range Organics ND 5.0 mg/Kg 06/16/25 12:34 06/18/25 04:51

(GRO)-C6-C10

MB MB %Recovery Limits Qualifier Prepared Dil Fac Surrogate Analyzed 06/16/25 12:34 15 - 150 06/18/25 04:51 4-Bromofluorobenzene (Surr) 99

Lab Sample ID: LCS 885-28381/1-A Client Sample ID: Lab Control Sample Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 28515** 

Spike LCS LCS Analyte babbA Result Qualifier Limits Unit D %Rec Gasoline Range Organics 25.0 23.8 mg/Kg 95 70 - 130

(GRO)-C6-C10

LCS LCS

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 202 15 - 150

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-28381/3-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

**Analysis Batch: 28516** 

MB MB

Qualifier RL D Dil Fac Analyte Unit Prepared Analyzed Result 0.025 06/16/25 12:34 06/18/25 04:51 Benzene ND mg/Kg Ethylbenzene ND 0.050 06/16/25 12:34 06/18/25 04:51 mg/Kg Toluene ND 0.050 mg/Kg 06/16/25 12:34 06/18/25 04:51 Xylenes, Total ND 0.10 06/16/25 12:34 06/18/25 04:51 mg/Kg

мв мв

Qualifier Limits Dil Fac Surrogate %Recovery Prepared Analyzed 4-Bromofluorobenzene (Surr) 96 15 - 150 06/16/25 12:34 06/18/25 04:51

Lab Sample ID: LCS 885-28381/2-A Client Sample ID: Lab Control Sample

**Matrix: Solid Analysis Batch: 28516** 

Spike LCS LCS %Rec Result Qualifier Analyte Added Unit %Rec Limits Benzene 1.00 0.982 98 70 - 130 mg/Kg 0.980 Ethylbenzene 1.00 mg/Kg 98 70 - 130m-Xylene & p-Xylene 2.00 2.03 mg/Kg 102 70 - 130 1.00 0.995 70 - 130 o-Xylene mg/Kg 99 Toluene 1.00 0.979 mg/Kg 98 70 - 130

LCS LCS

Surrogate %Recovery Qualifier Limits 15 \_ 150 4-Bromofluorobenzene (Surr) 94

Eurofins Albuquerque

Prep Batch: 28381

Prep Type: Total/NA Prep Batch: 28381

Prep Type: Total/NA

Prep Type: Total/NA

06/18/25 04:07

Client Sample ID: Lab Control Sample

Client Sample ID: WS25-06 at 0-3ft

Job ID: 885-26816-1

06/17/25 10:31

Project/Site: B Lee State #006

Client: Vertex

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-28453/1-A Client Sample ID: Method Blank **Matrix: Solid** 

**Analysis Batch: 28430** 

Motor Oil Range Organics [C28-C40]

Prep Batch: 28453 MB MB Analyte Result Qualifier RLUnit D Prepared Analyzed Dil Fac Diesel Range Organics [C10-C28] ND 10 mg/Kg 06/17/25 10:31 06/18/25 04:07

> ND MB MB

Qualifier Limits Dil Fac Surrogate %Recovery Prepared Analyzed Di-n-octyl phthalate (Surr) 106 62 - 134 06/17/25 10:31 06/18/25 04:07

50

mg/Kg

Lab Sample ID: LCS 885-28453/2-A

**Matrix: Solid** 

**Analysis Batch: 28430** 

Prep Batch: 28453 Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits 50.0 57.0 114 51 - 148 Diesel Range Organics mg/Kg

[C10-C28]

LCS LCS

Surrogate %Recovery Qualifier Limits Di-n-octyl phthalate (Surr) 62 - 134 112

Lab Sample ID: 885-26816-15 MS

**Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 28430** Prep Batch: 28453

MS MS %Rec Sample Sample Spike Result Qualifier Added Result Qualifier Unit D %Rec Limits

Analyte 48.0 **Diesel Range Organics** ND 56.2 mg/Kg 98 44 - 136

[C10-C28]

MS MS

%Recovery Qualifier Limits Surrogate Di-n-octyl phthalate (Surr) S1+ 62 - 134 136

Lab Sample ID: 885-26816-15 MSD

**Matrix: Solid** 

**Diesel Range Organics** 

Analysis Batch: 28430 RPD MSD MSD Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD

54.0

mg/Kg

47.2

[C10-C28]

MSD MSD %Recovery Surrogate Qualifier Limits Di-n-octyl phthalate (Surr) 137 S1+ 62 - 134

ND

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-28395/1-A

Released to Imaging: 8/20/2025 11:23:00 AM

**Matrix: Solid** 

**Analysis Batch: 28427** 

Prep Batch: 28395 мв мв Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Chloride ND 3.0 mg/Kg 06/16/25 14:30 06/17/25 08:44

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Prep Type: Total/NA

Client Sample ID: Method Blank

Client Sample ID: WS25-06 at 0-3ft

Prep Type: Total/NA Prep Batch: 28453

## **QC Sample Results**

Client: Vertex Job ID: 885-26816-1

Project/Site: B Lee State #006

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 885-28395/2-A **Client Sample ID: Lab Control Sample** 

**Matrix: Solid** 

**Prep Type: Total/NA** Prep Batch: 28395 Analysis Batch: 28427 Spike LCS LCS

Result Qualifier Added Analyte Unit %Rec Limits Chloride 30.0 29.3 mg/Kg 98 90 - 110

## **QC Association Summary**

Client: Vertex Job ID: 885-26816-1

Project/Site: B Lee State #006

**GC VOA** 

Prep Batch: 28381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
885-26816-1	TP25-28 at 0ft	Total/NA	Solid	5030C	
885-26816-2	BS25-05 at 3ft	Total/NA	Solid	5030C	
885-26816-3	BS25-20 at 3ft	Total/NA	Solid	5030C	
885-26816-4	BS25-16 at 3ft	Total/NA	Solid	5030C	
885-26816-5	WS25-03 at 0-3ft	Total/NA	Solid	5030C	
885-26816-6	BS25-03 at 3ft	Total/NA	Solid	5030C	
885-26816-7	BS25-28 at 3ft	Total/NA	Solid	5030C	
885-26816-8	BS25-14 at 3ft	Total/NA	Solid	5030C	
885-26816-9	BS25-17 at 3ft	Total/NA	Solid	5030C	
885-26816-10	TP25-28 at 4ft	Total/NA	Solid	5030C	
885-26816-11	BS25-22 at 3ft	Total/NA	Solid	5030C	
885-26816-12	TP25-28 at 2ft	Total/NA	Solid	5030C	
885-26816-13	BS25-19 at 3ft	Total/NA	Solid	5030C	
885-26816-14	BS25-09 at 3ft	Total/NA	Solid	5030C	
885-26816-15	WS25-06 at 0-3ft	Total/NA	Solid	5030C	
MB 885-28381/3-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-28381/1-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-28381/2-A	Lab Control Sample	Total/NA	Solid	5030C	

Analysis Batch: 28515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26816-1	TP25-28 at 0ft	Total/NA	Solid	8015M/D	28381
885-26816-2	BS25-05 at 3ft	Total/NA	Solid	8015M/D	28381
885-26816-3	BS25-20 at 3ft	Total/NA	Solid	8015M/D	28381
885-26816-4	BS25-16 at 3ft	Total/NA	Solid	8015M/D	28381
885-26816-5	WS25-03 at 0-3ft	Total/NA	Solid	8015M/D	28381
885-26816-6	BS25-03 at 3ft	Total/NA	Solid	8015M/D	28381
885-26816-7	BS25-28 at 3ft	Total/NA	Solid	8015M/D	28381
885-26816-8	BS25-14 at 3ft	Total/NA	Solid	8015M/D	28381
885-26816-9	BS25-17 at 3ft	Total/NA	Solid	8015M/D	28381
885-26816-10	TP25-28 at 4ft	Total/NA	Solid	8015M/D	28381
885-26816-11	BS25-22 at 3ft	Total/NA	Solid	8015M/D	28381
885-26816-12	TP25-28 at 2ft	Total/NA	Solid	8015M/D	28381
885-26816-13	BS25-19 at 3ft	Total/NA	Solid	8015M/D	28381
885-26816-14	BS25-09 at 3ft	Total/NA	Solid	8015M/D	28381
885-26816-15	WS25-06 at 0-3ft	Total/NA	Solid	8015M/D	28381
MB 885-28381/3-A	Method Blank	Total/NA	Solid	8015M/D	28381
LCS 885-28381/1-A	Lab Control Sample	Total/NA	Solid	8015M/D	28381

Analysis Batch: 28516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26816-1	TP25-28 at 0ft	Total/NA	Solid	8021B	28381
885-26816-2	BS25-05 at 3ft	Total/NA	Solid	8021B	28381
885-26816-3	BS25-20 at 3ft	Total/NA	Solid	8021B	28381
885-26816-4	BS25-16 at 3ft	Total/NA	Solid	8021B	28381
885-26816-5	WS25-03 at 0-3ft	Total/NA	Solid	8021B	28381
885-26816-6	BS25-03 at 3ft	Total/NA	Solid	8021B	28381
885-26816-7	BS25-28 at 3ft	Total/NA	Solid	8021B	28381
885-26816-8	BS25-14 at 3ft	Total/NA	Solid	8021B	28381
885-26816-9	BS25-17 at 3ft	Total/NA	Solid	8021B	28381
885-26816-10	TP25-28 at 4ft	Total/NA	Solid	8021B	28381

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## **QC Association Summary**

Client: Vertex Job ID: 885-26816-1

Project/Site: B Lee State #006

## **GC VOA (Continued)**

### **Analysis Batch: 28516 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26816-11	BS25-22 at 3ft	Total/NA	Solid	8021B	28381
885-26816-12	TP25-28 at 2ft	Total/NA	Solid	8021B	28381
885-26816-13	BS25-19 at 3ft	Total/NA	Solid	8021B	28381
885-26816-14	BS25-09 at 3ft	Total/NA	Solid	8021B	28381
885-26816-15	WS25-06 at 0-3ft	Total/NA	Solid	8021B	28381
MB 885-28381/3-A	Method Blank	Total/NA	Solid	8021B	28381
LCS 885-28381/2-A	Lab Control Sample	Total/NA	Solid	8021B	28381

#### **GC Semi VOA**

#### Analysis Batch: 28430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26816-1	TP25-28 at 0ft	Total/NA	Solid	8015M/D	28453
885-26816-2	BS25-05 at 3ft	Total/NA	Solid	8015M/D	28453
885-26816-3	BS25-20 at 3ft	Total/NA	Solid	8015M/D	28453
885-26816-4	BS25-16 at 3ft	Total/NA	Solid	8015M/D	28453
885-26816-5	WS25-03 at 0-3ft	Total/NA	Solid	8015M/D	28453
885-26816-6	BS25-03 at 3ft	Total/NA	Solid	8015M/D	28453
885-26816-7	BS25-28 at 3ft	Total/NA	Solid	8015M/D	28453
885-26816-8	BS25-14 at 3ft	Total/NA	Solid	8015M/D	28453
885-26816-9	BS25-17 at 3ft	Total/NA	Solid	8015M/D	28453
885-26816-10	TP25-28 at 4ft	Total/NA	Solid	8015M/D	28453
885-26816-11	BS25-22 at 3ft	Total/NA	Solid	8015M/D	28453
885-26816-12	TP25-28 at 2ft	Total/NA	Solid	8015M/D	28453
885-26816-13	BS25-19 at 3ft	Total/NA	Solid	8015M/D	28453
885-26816-14	BS25-09 at 3ft	Total/NA	Solid	8015M/D	28453
885-26816-15	WS25-06 at 0-3ft	Total/NA	Solid	8015M/D	28453
MB 885-28453/1-A	Method Blank	Total/NA	Solid	8015M/D	28453
LCS 885-28453/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	28453
885-26816-15 MS	WS25-06 at 0-3ft	Total/NA	Solid	8015M/D	28453
885-26816-15 MSD	WS25-06 at 0-3ft	Total/NA	Solid	8015M/D	28453

#### Prep Batch: 28453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
885-26816-1	TP25-28 at 0ft	Total/NA	Solid	SHAKE	
885-26816-2	BS25-05 at 3ft	Total/NA	Solid	SHAKE	
885-26816-3	BS25-20 at 3ft	Total/NA	Solid	SHAKE	
885-26816-4	BS25-16 at 3ft	Total/NA	Solid	SHAKE	
885-26816-5	WS25-03 at 0-3ft	Total/NA	Solid	SHAKE	
885-26816-6	BS25-03 at 3ft	Total/NA	Solid	SHAKE	
885-26816-7	BS25-28 at 3ft	Total/NA	Solid	SHAKE	
885-26816-8	BS25-14 at 3ft	Total/NA	Solid	SHAKE	
885-26816-9	BS25-17 at 3ft	Total/NA	Solid	SHAKE	
885-26816-10	TP25-28 at 4ft	Total/NA	Solid	SHAKE	
885-26816-11	BS25-22 at 3ft	Total/NA	Solid	SHAKE	
885-26816-12	TP25-28 at 2ft	Total/NA	Solid	SHAKE	
885-26816-13	BS25-19 at 3ft	Total/NA	Solid	SHAKE	
885-26816-14	BS25-09 at 3ft	Total/NA	Solid	SHAKE	
885-26816-15	WS25-06 at 0-3ft	Total/NA	Solid	SHAKE	
MB 885-28453/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-28453/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

## **QC Association Summary**

Client: Vertex Job ID: 885-26816-1

Project/Site: B Lee State #006

## GC Semi VOA (Continued)

#### Prep Batch: 28453 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26816-15 MS	WS25-06 at 0-3ft	Total/NA	Solid	SHAKE	
885-26816-15 MSD	WS25-06 at 0-3ft	Total/NA	Solid	SHAKE	

#### HPLC/IC

#### Prep Batch: 28395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26816-1	TP25-28 at 0ft	Total/NA	Solid	300_Prep	_
885-26816-2	BS25-05 at 3ft	Total/NA	Solid	300_Prep	
885-26816-3	BS25-20 at 3ft	Total/NA	Solid	300_Prep	
885-26816-4	BS25-16 at 3ft	Total/NA	Solid	300_Prep	
885-26816-5	WS25-03 at 0-3ft	Total/NA	Solid	300_Prep	
885-26816-6	BS25-03 at 3ft	Total/NA	Solid	300_Prep	
885-26816-7	BS25-28 at 3ft	Total/NA	Solid	300_Prep	
885-26816-8	BS25-14 at 3ft	Total/NA	Solid	300_Prep	
885-26816-9	BS25-17 at 3ft	Total/NA	Solid	300_Prep	
885-26816-10	TP25-28 at 4ft	Total/NA	Solid	300_Prep	
885-26816-11	BS25-22 at 3ft	Total/NA	Solid	300_Prep	
885-26816-12	TP25-28 at 2ft	Total/NA	Solid	300_Prep	
885-26816-13	BS25-19 at 3ft	Total/NA	Solid	300_Prep	
885-26816-14	BS25-09 at 3ft	Total/NA	Solid	300_Prep	
885-26816-15	WS25-06 at 0-3ft	Total/NA	Solid	300_Prep	
MB 885-28395/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-28395/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

#### **Analysis Batch: 28427**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26816-1	TP25-28 at 0ft	Total/NA	Solid	300.0	28395
885-26816-2	BS25-05 at 3ft	Total/NA	Solid	300.0	28395
885-26816-3	BS25-20 at 3ft	Total/NA	Solid	300.0	28395
885-26816-4	BS25-16 at 3ft	Total/NA	Solid	300.0	28395
885-26816-5	WS25-03 at 0-3ft	Total/NA	Solid	300.0	28395
885-26816-6	BS25-03 at 3ft	Total/NA	Solid	300.0	28395
885-26816-7	BS25-28 at 3ft	Total/NA	Solid	300.0	28395
885-26816-8	BS25-14 at 3ft	Total/NA	Solid	300.0	28395
885-26816-9	BS25-17 at 3ft	Total/NA	Solid	300.0	28395
885-26816-10	TP25-28 at 4ft	Total/NA	Solid	300.0	28395
885-26816-11	BS25-22 at 3ft	Total/NA	Solid	300.0	28395
885-26816-12	TP25-28 at 2ft	Total/NA	Solid	300.0	28395
885-26816-13	BS25-19 at 3ft	Total/NA	Solid	300.0	28395
885-26816-14	BS25-09 at 3ft	Total/NA	Solid	300.0	28395
885-26816-15	WS25-06 at 0-3ft	Total/NA	Solid	300.0	28395
MB 885-28395/1-A	Method Blank	Total/NA	Solid	300.0	28395
LCS 885-28395/2-A	Lab Control Sample	Total/NA	Solid	300.0	28395

Client Sample ID: TP25-28 at 0ft

Date Collected: 06/12/25 09:50 Date Received: 06/14/25 07:53

Lab Sample ID: 885-26816-1

**Matrix: Solid** 

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			28381	CM	EET ALB	06/16/25 12:34
Total/NA	Analysis	8015M/D		1	28515	JP	EET ALB	06/18/25 08:24
Total/NA	Prep	5030C			28381	CM	EET ALB	06/16/25 12:34
Total/NA	Analysis	8021B		1	28516	JP	EET ALB	06/18/25 08:24
Total/NA	Prep	SHAKE			28453	MI	EET ALB	06/17/25 10:31
Total/NA	Analysis	8015M/D		1	28430	MI	EET ALB	06/18/25 05:25
Total/NA	Prep	300_Prep			28395	KB	EET ALB	06/16/25 14:30
Total/NA	Analysis	300.0		20	28427	RC	EET ALB	06/17/25 11:02

Client Sample ID: BS25-05 at 3ft

Date Collected: 06/12/25 13:30

Date Received: 06/14/25 07:53

Lab Sample ID: 885-26816-2

**Matrix: Solid** 

Batch Batch Dilution Batch Prepared **Prep Type** Type Method Run Factor Number Analyst Lab or Analyzed Total/NA 5030C EET ALB 06/16/25 12:34 Prep 28381 CM Total/NA 8015M/D 06/18/25 08:48 Analysis 1 28515 JP **EET ALB** Total/NA 5030C **EET ALB** 06/16/25 12:34 Prep 28381 CM Total/NA Analysis 8021B 1 28516 JP **EET ALB** 06/18/25 08:48 Total/NA SHAKE **EET ALB** 06/17/25 10:31 Prep 28453 MI Total/NA Analysis 8015M/D 1 28430 MI **EET ALB** 06/18/25 05:36 EET ALB 06/16/25 14:30 Total/NA Prep 300\_Prep 28395 KB Total/NA Analysis 300.0 20 28427 RC **EET ALB** 06/17/25 11:13

Client Sample ID: BS25-20 at 3ft

Date Collected: 06/12/25 11:50

Date Received: 06/14/25 07:53

Lab Sample ID: 885-26816-3

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			28381	CM	EET ALB	06/16/25 12:34
Total/NA	Analysis	8015M/D		1	28515	JP	EET ALB	06/18/25 09:11
Total/NA	Prep	5030C			28381	CM	EET ALB	06/16/25 12:34
Total/NA	Analysis	8021B		1	28516	JP	EET ALB	06/18/25 09:11
Total/NA	Prep	SHAKE			28453	MI	EET ALB	06/17/25 10:31
Total/NA	Analysis	8015M/D		1	28430	MI	EET ALB	06/18/25 05:47
Total/NA	Prep	300_Prep			28395	KB	EET ALB	06/16/25 14:30
Total/NA	Analysis	300.0		20	28427	RC	EET ALB	06/17/25 11:23

Client Sample ID: BS25-16 at 3ft

Date Collected: 06/12/25 13:40

Date Received: 06/14/25 07:53

_ab Samp∣	le ID:	885-2	26816-4	
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Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			28381	СМ	EET ALB	06/16/25 12:34
Total/NA	Analysis	8015M/D		1	28515	JP	EET ALB	06/18/25 09:34

Client Sample ID: BS25-16 at 3ft

Date Collected: 06/12/25 13:40 Date Received: 06/14/25 07:53 Lab Sample ID: 885-26816-4

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			28381	СМ	EET ALB	06/16/25 12:34
Total/NA	Analysis	8021B		1	28516	JP	EET ALB	06/18/25 09:34
Total/NA	Prep	SHAKE			28453	MI	EET ALB	06/17/25 10:31
Total/NA	Analysis	8015M/D		1	28430	MI	EET ALB	06/18/25 05:57
Total/NA	Prep	300_Prep			28395	KB	EET ALB	06/16/25 14:30
Total/NA	Analysis	300.0		20	28427	RC	EET ALB	06/17/25 11:33

Client Sample ID: WS25-03 at 0-3ft

Date Collected: 06/12/25 13:00 Date Received: 06/14/25 07:53 Lab Sample ID: 885-26816-5

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			28381	СМ	EET ALB	06/16/25 12:34
Total/NA	Analysis	8015M/D		1	28515	JP	EET ALB	06/18/25 09:58
Total/NA	Prep	5030C			28381	CM	EET ALB	06/16/25 12:34
Total/NA	Analysis	8021B		1	28516	JP	EET ALB	06/18/25 09:58
Total/NA	Prep	SHAKE			28453	MI	EET ALB	06/17/25 10:31
Total/NA	Analysis	8015M/D		1	28430	MI	EET ALB	06/18/25 06:08
Total/NA	Prep	300_Prep			28395	KB	EET ALB	06/16/25 14:30
Total/NA	Analysis	300.0		20	28427	RC	EET ALB	06/17/25 11:44

Client Sample ID: BS25-03 at 3ft

Date Collected: 06/12/25 13:10 Date Received: 06/14/25 07:53 Lab Sample ID: 885-26816-6

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			28381	CM	EET ALB	06/16/25 12:34
Total/NA	Analysis	8015M/D		1	28515	JP	EET ALB	06/18/25 10:22
Total/NA	Prep	5030C			28381	CM	EET ALB	06/16/25 12:34
Total/NA	Analysis	8021B		1	28516	JP	EET ALB	06/18/25 10:22
Total/NA	Prep	SHAKE			28453	MI	EET ALB	06/17/25 10:31
Total/NA	Analysis	8015M/D		1	28430	MI	EET ALB	06/18/25 06:30
Total/NA	Prep	300_Prep			28395	KB	EET ALB	06/16/25 14:30
Total/NA	Analysis	300.0		20	28427	RC	EET ALB	06/17/25 11:54

Client Sample ID: BS25-28 at 3ft

Date Collected: 06/12/25 13:20

Date Received: 06/14/25 07:53

a	b	Sam	ıple	ID:	885-	<b>268</b> 1	16-7
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Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			28381	СМ	EET ALB	06/16/25 12:34
Total/NA	Analysis	8015M/D		1	28515	JP	EET ALB	06/18/25 11:09
Total/NA	Prep	5030C			28381	CM	EET ALB	06/16/25 12:34
Total/NA	Analysis	8021B		1	28516	JP	EET ALB	06/18/25 11:09

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885-26816-7

Client Sample ID: BS25-28 at 3ft

Date Collected: 06/12/25 13:20 Date Received: 06/14/25 07:53 Lab Sample ID: 885-26816-7

Matrice 0 211

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	SHAKE			28453	MI	EET ALB	06/17/25 10:31
Total/NA	Analysis	8015M/D		1	28430	MI	EET ALB	06/18/25 06:40
Total/NA	Prep	300_Prep			28395	KB	EET ALB	06/16/25 14:30
Total/NA	Analysis	300.0		20	28427	RC	EET ALB	06/17/25 12:04

Client Sample ID: BS25-14 at 3ft

Date Collected: 06/12/25 13:50 Date Received: 06/14/25 07:53 Lab Sample ID: 885-26816-8

Matrix: Solid

Batch Batch Dilution Batch Prepared or Analyzed **Prep Type** Туре Method Run Factor Number Analyst Lab Total/NA 5030C 28381 СМ EET ALB 06/16/25 12:34 Prep Total/NA 8015M/D 06/18/25 11:32 Analysis 28515 JP **EET ALB** 1 Total/NA Prep 5030C 28381 CM **EET ALB** 06/16/25 12:34 8021B 06/18/25 11:32 Total/NA 28516 JP **EET ALB** Analysis 1 Total/NA SHAKE **EET ALB** 06/17/25 10:31 Prep 28453 MI Total/NA Analysis 8015M/D 28430 MI **EET ALB** 06/18/25 06:51 1 Total/NA **EET ALB** 06/16/25 14:30 Prep 300 Prep 28395 KB 28427 RC Total/NA Analysis 300.0 20 **EET ALB** 06/17/25 12:15

Client Sample ID: BS25-17 at 3ft

Date Collected: 06/12/25 11:40 Date Received: 06/14/25 07:53 Lab Sample ID: 885-26816-9

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			28381	CM	EET ALB	06/16/25 13:38
Total/NA	Analysis	8015M/D		1	28515	JP	EET ALB	06/18/25 11:56
Total/NA	Prep	5030C			28381	CM	EET ALB	06/16/25 13:38
Total/NA	Analysis	8021B		1	28516	JP	EET ALB	06/18/25 11:56
Total/NA	Prep	SHAKE			28453	MI	EET ALB	06/17/25 10:31
Total/NA	Analysis	8015M/D		1	28430	MI	EET ALB	06/18/25 07:02
Total/NA	Prep	300_Prep			28395	KB	EET ALB	06/16/25 14:30
Total/NA	Analysis	300.0		20	28427	RC	EET ALB	06/17/25 12:25

Client Sample ID: TP25-28 at 4ft

Date Collected: 06/12/25 10:10

Date Received: 06/14/25 07:53

Lab Sample ID: 885-26816-10

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			28381	CM	EET ALB	06/16/25 13:38
Total/NA	Analysis	8015M/D		1	28515	JP	EET ALB	06/18/25 12:19
Total/NA	Prep	5030C			28381	CM	EET ALB	06/16/25 13:38
Total/NA	Analysis	8021B		1	28516	JP	EET ALB	06/18/25 12:19
Total/NA	Prep	SHAKE			28453	MI	EET ALB	06/17/25 10:31
Total/NA	Analysis	8015M/D		1	28430	MI	EET ALB	06/18/25 07:12

Client Sample ID: TP25-28 at 4ft

Date Collected: 06/12/25 10:10 Date Received: 06/14/25 07:53 Lab Sample ID: 885-26816-10

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	300_Prep			28395	KB	EET ALB	06/16/25 14:30
Total/NA	Analysis	300.0		20	28427	RC	EET ALB	06/17/25 12:56

Client Sample ID: BS25-22 at 3ft Lab Sample ID: 885-26816-11

Date Collected: 06/12/25 12:00 Date Received: 06/14/25 07:53 **Matrix: Solid** 

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			28381	СМ	EET ALB	06/16/25 13:38
Total/NA	Analysis	8015M/D		1	28515	JP	EET ALB	06/18/25 12:42
Total/NA	Prep	5030C			28381	CM	EET ALB	06/16/25 13:38
Total/NA	Analysis	8021B		1	28516	JP	EET ALB	06/18/25 12:42
Total/NA	Prep	SHAKE			28453	MI	EET ALB	06/17/25 10:31
Total/NA	Analysis	8015M/D		1	28430	MI	EET ALB	06/18/25 07:23
Total/NA	Prep	300_Prep			28395	KB	EET ALB	06/16/25 14:30
Total/NA	Analysis	300.0		20	28427	RC	EET ALB	06/17/25 13:07

Client Sample ID: TP25-28 at 2ft Lab Sample ID: 885-26816-12

**Matrix: Solid** 

Date Collected: 06/12/25 10:00 Date Received: 06/14/25 07:53

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			28381	CM	EET ALB	06/16/25 13:38
Total/NA	Analysis	8015M/D		1	28515	JP	EET ALB	06/18/25 13:06
Total/NA	Prep	5030C			28381	CM	EET ALB	06/16/25 13:38
Total/NA	Analysis	8021B		1	28516	JP	EET ALB	06/18/25 13:06
Total/NA	Prep	SHAKE			28453	MI	EET ALB	06/17/25 10:31
Total/NA	Analysis	8015M/D		1	28430	MI	EET ALB	06/18/25 07:34
Total/NA	Prep	300_Prep			28395	KB	EET ALB	06/16/25 14:30
Total/NA	Analysis	300.0		20	28427	RC	EET ALB	06/17/25 13:17

Client Sample ID: BS25-19 at 3ft Lab Sample ID: 885-26816-13

Date Collected: 06/12/25 11:30 **Matrix: Solid** Date Received: 06/14/25 07:53

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			28381	СМ	EET ALB	06/16/25 13:38
Total/NA	Analysis	8015M/D		1	28515	JP	EET ALB	06/18/25 13:29
Total/NA	Prep	5030C			28381	CM	EET ALB	06/16/25 13:38
Total/NA	Analysis	8021B		1	28516	JP	EET ALB	06/18/25 13:29
Total/NA	Prep	SHAKE			28453	MI	EET ALB	06/17/25 10:31
Total/NA	Analysis	8015M/D		1	28430	MI	EET ALB	06/18/25 07:45
Total/NA	Prep	300_Prep			28395	KB	EET ALB	06/16/25 14:30
Total/NA	Analysis	300.0		20	28427	RC	EET ALB	06/17/25 13:27

Lab Sample ID: 885-26816-14

Matrix: Solid

Date Collected: 06/13/25 07:00 Date Received: 06/14/25 07:53

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			28381	СМ	EET ALB	06/16/25 13:38
Total/NA	Analysis	8015M/D		1	28515	JP	EET ALB	06/18/25 13:53
Total/NA	Prep	5030C			28381	CM	EET ALB	06/16/25 13:38
Total/NA	Analysis	8021B		1	28516	JP	EET ALB	06/18/25 13:53
Total/NA	Prep	SHAKE			28453	MI	EET ALB	06/17/25 10:31
Total/NA	Analysis	8015M/D		1	28430	MI	EET ALB	06/18/25 07:56
Total/NA	Prep	300_Prep			28395	KB	EET ALB	06/16/25 14:34
Total/NA	Analysis	300.0		20	28427	RC	EET ALB	06/17/25 13:38

Client Sample ID: WS25-06 at 0-3ft Lab Sample ID: 885-26816-15

Date Collected: 06/13/25 07:10

Matrix: Solid

Date Received: 06/14/25 07:53

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			28381	СМ	EET ALB	06/16/25 13:38
Total/NA	Analysis	8015M/D		1	28515	JP	EET ALB	06/18/25 14:16
Total/NA	Prep	5030C			28381	CM	EET ALB	06/16/25 13:38
Total/NA	Analysis	8021B		1	28516	JP	EET ALB	06/18/25 14:16
Total/NA	Prep	SHAKE			28453	MI	EET ALB	06/17/25 10:31
Total/NA	Analysis	8015M/D		1	28430	MI	EET ALB	06/18/25 08:07
Total/NA	Prep	300_Prep			28395	KB	EET ALB	06/16/25 14:34
Total/NA	Analysis	300.0		20	28427	RC	EET ALB	06/17/25 13:48

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Released to Imaging: 8/20/2025 11:23:00 AM

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## **Accreditation/Certification Summary**

Client: Vertex Job ID: 885-26816-1

Project/Site: B Lee State #006

#### **Laboratory: Eurofins Albuquerque**

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Prog	ram	Identification Number	Expiration Date			
New Mexico	State		NM9425, NM0901	02-27-26			
0 ,	are included in this report, boes not offer certification.	out the laboratory is not certif	ied by the governing authority. This lis	t may include analytes			
Analysis Method	Prep Method	Matrix	Analyte				
300.0	300_Prep	Solid	Chloride				
8015M/D	5030C	Solid	Gasoline Range Organics	(GRO)-C6-C10			
8015M/D	SHAKE	Solid	Diesel Range Organics [C	10-C28]			
8015M/D	SHAKE	Solid	Motor Oil Range Organics	[C28-C40]			
8021B	5030C	Solid	Benzene				
8021B	5030C	Solid	Ethylbenzene				
8021B	5030C	Solid	Toluene				
8021B	5030C	Solid	Xylenes, Total				
Pregon	NEL	NM100001	02-26-26				

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	Chain-of-Custody Record		Turn-Around	Around Time:								E	MM			M	ENT	- 1 1		
Client:	Vertex	(bill to E	Devon Energy, Jim Raley)		X Rush 2	davs				HALL ENVIRONMENTAL ANALYSIS LABOR HUND										
				Project Name:				www.hallenvironmental.com											2	,
Mailing	Address:		3101 Boyd Dr	B Lee S	tate #006		4901 Hawkins NE - Albuquerque, NM 871												200	
			Carlsbad, New Mexico	Project #:				Tel. 505-345-3975 Fax 505-345-4107									385-2 <b>68</b> 1	6 COC		
Phone :	#:		575.725.5001	25A-01934																
email o	r Fax#:			Project Mana	ager:		=	0					SO4			ent)				
QA/QC I □ Stan	Package: dard		☐ Level 4 (Full Validation)	-	Sally Carttar SCarttar@vertexresource.com		3's (8021)	DRO / MRO)	PCB's		8270SIMS		PO4,			(Present/Absent)				
□ NEL	ccreditation:   Az Compliance  NELAC   Other  EDD (Type)		Sampler: Sharon Minnix On Ice: Yes No # of Coolers:   Mey'c			MTBE / TMB'	_	Pesticides/8082	od 504.1)	8310 or 827	etals	NO <sub>3</sub> , NO <sub>2</sub> ,		(Semi-VOA)						
				Cooler Temp	(including CF): 5	1+0.7=5.3%	Ξ	15D	estic	(Method	by 83	8 Metals	Br, 1	0 V	Semi	Coliform				
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	À	TPH:8015D(GRO	8081 P	EDB (N	PAHs t	RCRA	G F,	8260 (VOA)	8270 (9	Total C			!	
5.12.25	9:50	Soil	TP25-28 at 0ft	1, 4oz jar	ICE	-1	х	х					X							
5.12.25	13:30	Soil	BS25-05 at 3ft	1, 4oz jar	ICE	- 2	х	х					х							
6.12.25	11:50	Soil	BS25-20 at 3ft	1, 4oz jar	ICE	-3	х	Х					х							
5.12.25	13:40	Soil	BS25-16 at 3ft	1, 4oz jar	ICE	-4	х	Х					х							
6.12.25	13:00	Soil	WS25-03 at 0-3ft	1, 4oz jar	ICE	-5	х	Х					х							
5.12.25	13:10	Soil	BS25-03 at 3ft	1, 4oz jar	ICE	-6	х	X					Х							L
5.12.25	13:20	Soil	BS25-28 at 3ft	1, 4oz jar	ICE	-7	х	х					Х							$\perp$
5.12.25	13:50	Soil	BS25-14 at 3ft	1, 4oz jar	ICE	-8	X	х					Х							
5.12.25	11:40	Soil	BS25-17 at 3ft	1, 4oz jar	ICE	-9_	Х	х					Х					$\perp$		$\perp$
5.12.25	10:10	Soil	TP25-28 at 4ft	1, 4oz jar	ICE	-10	Х	Х					X							$\perp$
5.12.25	12:00	Soil	BS25-22 at 3ft	1, 4oz jar	ICE	-11	Х	х		7		1	Х							$\perp$
5.12.25	10:00	Soil '	TP25-28 at 2ft	1, 4oz jar	ICE	-12	X	Х					X					$\perp$		$\perp$
3.12.25 Date:	11:30 Time:	Soil Relinquish	BS25-19 at 3ft led by:	1, 4oz jar Received by:	Via:	Date Time									-		Matt .com).	Buckle	s	
Date:	Time: 1900	Relinquish	led by:  Julius  printed to Hall Ehvironmental may be sub	Besselved by: Visc Bate Time			Per (SN	miar ⁄linni:	n@ve x@ve	rtex ertex	reso	urce	e.con	n, a m) fo	nd S or Fir	haroi nal Re	n Minr eport.	ix		









6/18/2025

	Chain-of-Custody Record			Turn-Around	Time:			HALL ENVIRONMENTAL												Kec		
Client:	Vertex	(bill to E	Devon Energy, Jim Raley)		X Rush 2	2 davs															DR	Supe
				Project Name		- dayo			B								tal.co					Į,
Mailing	Address:		3101 Boyd Dr	B Lee S	tate #006				49	01 H							e, NI		109	26	816	700
			Carlsbad, New Mexico	Project #:				1		el. 50							345-					): //
Phone	#:		575.725.5001	25A-01934							Mar.	115		J.	NV.	The						10/2
email c	r Fax#:			Project Mana	ager:			=	6					SO4			nt)		$\Box$	$\top$		T oz
	QC Package: Standard □ Level 4 (Full Validation)		□ Level 4 (Full Validation)	Sally Cartta	r ertexresource.	<u>com</u>		TMB's (8021)	DRO / MRO)	PCB's		8270SIMS		PO <sub>4</sub> ,			nt/Abse					MIV 05:00:21 CZ0
Accreditation:		Sampler: On Ice: # of Coolers:	Sharon D-Yes	Minnix  □ No	Maja	1	-	Pesticides/8082	od 504.1)	ō	tals	1O <sub>3</sub> , NO <sub>2</sub> ,		-VOA)	Coliform (Present/Absent)					30 AM		
	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				(including CF): 5	1+0.2=	5.300	/ MTBE	)15D(	estic	(Method	by 83	8 Me	Br, N	VOA)	Semi	Solifor					
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEA	L No.	(	TPH:8015D(GRO	8081 F	EDB (I	PAHs by 8310	RCRA 8 Metals	CJF, Br, NO <sub>3</sub> ,	8260 (VOA)	8270 (Semi-VOA)	Total (					
6.13.25	7:00	Soil	BS25-09 at 2'	1, 4oz jar	ICE	-14		х	Х					Х						$\perp$		
6.13.25	7:10	Soil	BWS25-06 at 0-2ft	1, 4oz jar	ICE	-15		х	X					х						$\perp$		
											$\dashv$		$\dashv$					$\dashv$	+	+	+	+
																		+	+		+	+
																		$\Box$		1	$\perp$	
																			+	+	+	
																			$\exists$	丰	$\perp$	
											$\dashv$	-	$\dashv$						+	$\dashv$	+	+
																				$\pm$	士	
Date:	Time:	Relinquish	ed by:  Minnix	Received by:	Via:	Date	Time										TTN:		tt Buo	ckles		
Date    BNS	1900 Time:	Relinquish		Received by:	Via:	3 36   14 2 <b>5</b>	800 Time	Per	mian	@ve	rtex	reso	urce	.con	n, a	nd S	haro nal Re	n Mir	nnix			rage 204
	If necessary,	samples sub	omitted to Hall Environmental may be sub	contracted to other a		es. This serves		is possi	ibility.	Any su	b-cont	tracted	data	will be	clear	y nota	ited on	the an	alytical	report		84 0J 400







## **Login Sample Receipt Checklist**

Client: Vertex Job Number: 885-26816-1

Login Number: 26816 List Source: Eurofins Albuquerque

List Number: 1

**Creator: Proctor, Nancy** 

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

**Environment Testing** 

## **ANALYTICAL REPORT**

## PREPARED FOR

Attn: Ms. Sally Carttar Vertex 3101 Boyd Dr Carlsbad, New Mexico 88220

Generated 6/23/2025 1:33:18 PM

## **JOB DESCRIPTION**

B Lee State #006

## **JOB NUMBER**

885-27206-1

Eurofins Albuquerque 4901 Hawkins NE Albuquerque NM 87109

## **Eurofins Albuquerque**

## **Job Notes**

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

## **Authorization**

Generated 6/23/2025 1:33:18 PM

Authorized for release by Cheyenne Cason, Project Manager cheyenne.cason@et.eurofinsus.com

(505)338-8812

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Client: Vertex
Laboratory Job ID: 885-27206-1
Project/Site: B Lee State #006

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### **Definitions/Glossary**

Client: Vertex Job ID: 885-27206-1

Project/Site: B Lee State #006

### **Glossary**

Abbreviation	These commonly used abbreviations may or may not be present in this report.
<b>\$</b>	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit MLMinimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit Not Calculated

NC

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present PQL Practical Quantitation Limit

**PRES** Presumptive **Quality Control** QC

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

#### **Case Narrative**

Client: Vertex Job ID: 885-27206-1

Project: B Lee State #006

Job ID: 885-27206-1 **Eurofins Albuquerque** 

#### Job Narrative 885-27206-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

#### Receipt

The samples were received on 6/20/2025 8:25 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.3°C.

#### **Gasoline Range Organics**

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### **Diesel Range Organics**

Method 8015D DRO: Surrogate recovery for the following sample is outside the upper control limit: (CCV 885-28707/51). Corresponding CCV has high surrogate. However, samples have acceptable surrogate within range. Therefore, data is reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client: Vertex Job ID: 885-27206-1

Project/Site: B Lee State #006

Client Sample ID: BS-09 at 3.5ft

Date Collected: 06/18/25 12:30 Date Received: 06/20/25 08:25 Lab Sample ID: 885-27206-1

Matrix: Solid

Method: SW846 8015M/D - Gasol	ine Range Org	anics (GRC	)) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		06/20/25 09:30	06/20/25 12:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		15 - 150			06/20/25 09:30	06/20/25 12:18	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		06/20/25 09:30	06/20/25 12:18	1
Ethylbenzene	ND		0.047	mg/Kg		06/20/25 09:30	06/20/25 12:18	1
Toluene	ND		0.047	mg/Kg		06/20/25 09:30	06/20/25 12:18	1
Xylenes, Total	ND		0.094	mg/Kg		06/20/25 09:30	06/20/25 12:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		15 - 150			06/20/25 09:30	06/20/25 12:18	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5	mg/Kg		06/20/25 09:48	06/20/25 11:58	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		06/20/25 09:48	06/20/25 11:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	114		62 - 134			06/20/25 09:48	06/20/25 11:58	1

Method: EPA 300.0 - Anions, ion C	nromatograpny						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	430	60	mg/Kg		06/20/25 10:19	06/20/25 12:01	20

Client: Vertex Job ID: 885-27206-1

Project/Site: B Lee State #006

Client Sample ID: BS25-26 at 3ft

Date Collected: 06/18/25 12:20 Date Received: 06/20/25 08:25

4-Bromofluorobenzene (Surr)

Lab Sample ID: 885-27206-2

06/20/25 12:40

06/20/25 09:30

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.0	mg/Kg		06/20/25 09:30	06/20/25 12:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		15 - 150			06/20/25 09:30	06/20/25 12:40	1
Method: SW846 8021B - Volatile				Unit	n	Prenared	Analyzed	Dil Fac
	Result	ounds (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
				Unit mg/Kg	<u>D</u>	Prepared 06/20/25 09:30	Analyzed 06/20/25 12:40	Dil Fac
Analyte	Result		RL		<u>D</u>			Dil Fac
Analyte Benzene	Result ND			mg/Kg	<u>D</u>	06/20/25 09:30	06/20/25 12:40	Dil Fac 1 1 1
Analyte Benzene Ethylbenzene	Result ND ND		0.020 0.040	mg/Kg mg/Kg	<u>D</u>	06/20/25 09:30 06/20/25 09:30	06/20/25 12:40 06/20/25 12:40	Dil Fac 1 1 1 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7	mg/Kg		06/20/25 09:48	06/20/25 12:09	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		06/20/25 09:48	06/20/25 12:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	113	·	62 - 134			06/20/25 09:48	06/20/25 12:09	

15 - 150

Method: EPA 300.0 - Allions, Ion C	niromatograpny						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	500	60	mg/Kg		06/20/25 10:19	06/20/25 12:14	20

Client: Vertex Job ID: 885-27206-1

Project/Site: B Lee State #006

Client Sample ID: BS25-24 at 5ft

Date Collected: 06/18/25 12:00 Date Received: 06/20/25 08:25

Surrogate

Lab Sample ID: 885-27206-3

Analyzed

Prepared

Matrix: Solid

Dil Fac

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.2	mg/Kg		06/20/25 09:30	06/20/25 13:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
			45 450				00/00/05 10 01	
4-Bromofluorobenzene (Surr)  Method: SW846 8021B - Volatile (	•	, ,	15 - 150			06/20/25 09:30	06/20/25 13:01	1
	Organic Comp	ounds (GC) Qualifier	15 - 150 RL	Unit	D	06/20/25 09:30  Prepared	06/20/25 13:01  Analyzed	Dil Fac
Method: SW846 8021B - Volatile (	Organic Comp	, ,		<mark>Unit</mark> mg/Kg	<u>D</u>			Dil Fac
Method: SW846 8021B - Volatile ( Analyte	Organic Comp	, ,	RL		<u>D</u>	Prepared	Analyzed	Dil Fac 1
Method: SW846 8021B - Volatile ( Analyte Benzene	Organic Comp Result ND	, ,	RL 0.021	mg/Kg	<u>D</u>	Prepared 06/20/25 09:30	Analyzed 06/20/25 13:01	Dil Fac 1 1 1

4-Bromofluorobenzene (Surr) 94  Method: SW846 8015M/D - Diesel Range Organics (DRO) (GAnalyte Result Qualifier	15 - 150 C)			06/20/25 09:30	06/20/25 13:01	1
	•					
Analyte Result Qualifier	RI					
	112	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28] ND	9.8	mg/Kg		06/20/25 09:48	06/20/25 12:20	1
Motor Oil Range Organics [C28-C40] ND	49	mg/Kg		06/20/25 09:48	06/20/25 12:20	1
Surrogate %Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr) 102	62 - 134			06/20/25 09:48	06/20/25 12:20	1

Limits

%Recovery Qualifier

Method: EPA 300.0 - Anions, Ion C	hromatography						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	180	60	mg/Kg		06/20/25 10:19	06/20/25 12:27	20

Prep Batch: 28717

Prep Batch: 28717

Prep Type: Total/NA

Job ID: 885-27206-1

109

70 - 130

Project/Site: B Lee State #006

Client: Vertex

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-28717/1-A Client Sample ID: Method Blank Prep Type: Total/NA

**Matrix: Solid** 

Analysis Batch: 28726

мв мв Analyte Result Qualifier RLUnit D Prepared Analyzed Dil Fac Gasoline Range Organics [C6 - C10] ND 5.0 mg/Kg 06/20/25 09:30 06/20/25 11:56

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 103 15 - 150 06/20/25 09:30 06/20/25 11:56

Lab Sample ID: LCS 885-28717/3-A Client Sample ID: Lab Control Sample Prep Type: Total/NA

27.1

mg/Kg

**Matrix: Solid** 

**Analysis Batch: 28726** 

Gasoline Range Organics [C6 -

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits

25.0

C10]

LCS LCS

%Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 15 - 150 214

Lab Sample ID: 885-27206-1 MS Client Sample ID: BS-09 at 3.5ft

**Matrix: Solid** 

**Analysis Batch: 28726** 

Prep Batch: 28717 Sample Sample Spike MS MS Result Qualifier Added Result Qualifier Analyte Unit %Rec Limits 23.5 101 70 - 130 Gasoline Range Organics [C6 -ND 23.8 mg/Kg

C10]

MS MS

Surrogate %Recovery Qualifier Limits 210

4-Bromofluorobenzene (Surr) 15 - 150

Lab Sample ID: 885-27206-1 MSD

**Matrix: Solid** 

**Analysis Batch: 28726** 

Sample Sample MSD MSD Spike %Rec Result Qualifier Result Qualifier babbA Limits RPD Analyte Unit %Rec Gasoline Range Organics [C6 -ND 23.5 23.5 mg/Kg 100 70 - 130

C10]

MSD MSD

%Recovery Surrogate Qualifier Limits 15 - 150 4-Bromofluorobenzene (Surr) 208

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-28717/1-A

Released to Imaging: 8/20/2025 11:23:00 AM

Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 28727** Prep Batch: 28717

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/20/25 09:30	06/20/25 11:56	1
Ethylbenzene	ND		0.050	mg/Kg		06/20/25 09:30	06/20/25 11:56	1
Toluene	ND		0.050	mg/Kg		06/20/25 09:30	06/20/25 11:56	1

Eurofins Albuquerque

Client Sample ID: BS-09 at 3.5ft Prep Type: Total/NA

> Prep Batch: 28717 RPD

Lab Sample ID: MB 885-28717/1-A

Client: Vertex Job ID: 885-27206-1

Project/Site: B Lee State #006

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

**Matrix: Solid** 

**Analysis Batch: 28727** 

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 28717

Analyte	Result Qu	ualifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND	0.10	mg/Kg		06/20/25 09:30	06/20/25 11:56	1

MR MR

MB MB

%Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 95 15 - 150 06/20/25 09:30 06/20/25 11:56

Lab Sample ID: LCS 885-28717/4-A **Client Sample ID: Lab Control Sample** 

1.00

Limits

15 - 150

**Matrix: Solid** 

Analyte

Benzene

Ethylbenzene

m,p-Xylene

o-Xylene

Surrogate

**Analysis Batch: 28727** 

Prep Type: Total/NA Prep Batch: 28717

0.929

LCS LCS Spike %Rec Added Result Qualifier Unit %Rec Limits 1.00 0.881 mg/Kg 88 70 - 130 1.00 0.922 mg/Kg 92 70 - 130 2.00 1.87 mg/Kg 93 70 - 130

mg/Kg

1.00 0.887 Toluene mg/Kg Xylenes, Total 3.00 2.80 mg/Kg LCS LCS

Qualifier

Lab Sample ID: 885-27206-2 MS

**Matrix: Solid** 

**Analysis Batch: 28727** 

4-Bromofluorobenzene (Surr)

Client Sample ID: BS25-26 at 3ft Prep Type: Total/NA

Client Sample ID: BS25-26 at 3ft

70 - 130

70 - 130

70 - 130

93

89

93

Prep Batch: 28717

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	ND		0.810	0.644		mg/Kg		80	70 - 130	
Ethylbenzene	ND		0.810	0.689		mg/Kg		85	70 - 130	
m,p-Xylene	ND		1.62	1.38		mg/Kg		85	70 - 130	
o-Xylene	ND		0.810	0.689		mg/Kg		85	70 - 130	
Toluene	ND		0.810	0.649		mg/Kg		80	70 - 130	
Xylenes, Total	ND		2.43	2.07		mg/Kg		85	70 - 130	

MS MS

%Recovery

96

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 92 15 - 150

Lab Sample ID: 885-27206-2 MSD

Matrix: Solid Analysis Batch: 28727				Prep Type: Tota Prep Batch: 2	
•	Sample Sample	Spike	MSD MSD	%Rec	RPD

	Sample	Sample Sp	ke MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier Add	ed Resul	t Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	ND	3.0	10 0.615	5	mg/Kg	_	76	70 - 130	5	20
Ethylbenzene	ND	0.8	10 0.651		mg/Kg		80	70 - 130	6	20
m,p-Xylene	ND	1	62 1.32	2	mg/Kg		82	70 - 130	5	20
o-Xylene	ND	0.8	10 0.660	)	mg/Kg		81	70 - 130	4	20
Toluene	ND	0.0	10 0.623	3	mg/Kg		77	70 - 130	4	20
Xylenes, Total	ND	2	43 1.98	3	mg/Kg		82	70 - 130	5	20

Job ID: 885-27206-1

Project/Site: B Lee State #006

Lab Sample ID: 885-27206-2 MSD

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

**Matrix: Solid** 

Client: Vertex

**Analysis Batch: 28727** 

MSD MSD

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 15 \_ 150 Client Sample ID: BS25-26 at 3ft

Prep Type: Total/NA

Prep Batch: 28717

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-28719/1-A

Matrix: Solid

**Analysis Batch: 28707** 

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 28719

MB MB Analyte Result Qualifier RLUnit D Prepared Analyzed Dil Fac Diesel Range Organics [C10-C28] 06/20/25 09:48 ND 10 mg/Kg 06/20/25 11:36 Motor Oil Range Organics [C28-C40] ND 50 06/20/25 09:48 06/20/25 11:36 mg/Kg

MB MB

%Recovery Qualifier Limits Dil Fac Surrogate Prepared Analyzed 06/20/25 09:48 Di-n-octyl phthalate (Surr) 105 62 - 134 06/20/25 11:36

Lab Sample ID: LCS 885-28719/2-A

**Matrix: Solid** 

**Analysis Batch: 28707** 

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 28719 %Rec

Analyte Result Qualifier Added Unit D %Rec Limits Diesel Range Organics 50.0 50.5 mg/Kg 101 51 - 148

LCS LCS

LCS LCS

Spike

[C10-C28]

LCS LCS

Surrogate %Recovery Qualifier Limits

Di-n-octyl phthalate (Surr) 101 62 - 134

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-28722/1-A

**Matrix: Solid** 

**Analysis Batch: 28732** 

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 28722

MB MB

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac 1.5 Chloride ND mg/Kg 06/20/25 10:19 06/20/25 11:35

Lab Sample ID: LCS 885-28722/2-A

**Matrix: Solid** 

**Analysis Batch: 28732** 

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 28722

%Rec

Analyte Added Result Qualifier Unit %Rec Limits Chloride 15.0 15.6 mg/Kg 104 90 - 110

Spike

## **QC Association Summary**

Client: Vertex Job ID: 885-27206-1

Project/Site: B Lee State #006

### **GC VOA**

Prep Batch: 28717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27206-1	BS-09 at 3.5ft	Total/NA	Solid	5035	
885-27206-2	BS25-26 at 3ft	Total/NA	Solid	5035	
885-27206-3	BS25-24 at 5ft	Total/NA	Solid	5035	
MB 885-28717/1-A	Method Blank	Total/NA	Solid	5035	
LCS 885-28717/3-A	Lab Control Sample	Total/NA	Solid	5035	
LCS 885-28717/4-A	Lab Control Sample	Total/NA	Solid	5035	
885-27206-1 MS	BS-09 at 3.5ft	Total/NA	Solid	5035	
885-27206-1 MSD	BS-09 at 3.5ft	Total/NA	Solid	5035	
885-27206-2 MS	BS25-26 at 3ft	Total/NA	Solid	5035	
885-27206-2 MSD	BS25-26 at 3ft	Total/NA	Solid	5035	

#### Analysis Batch: 28726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27206-1	BS-09 at 3.5ft	Total/NA	Solid	8015M/D	28717
885-27206-2	BS25-26 at 3ft	Total/NA	Solid	8015M/D	28717
885-27206-3	BS25-24 at 5ft	Total/NA	Solid	8015M/D	28717
MB 885-28717/1-A	Method Blank	Total/NA	Solid	8015M/D	28717
LCS 885-28717/3-A	Lab Control Sample	Total/NA	Solid	8015M/D	28717
885-27206-1 MS	BS-09 at 3.5ft	Total/NA	Solid	8015M/D	28717
885-27206-1 MSD	BS-09 at 3.5ft	Total/NA	Solid	8015M/D	28717

#### Analysis Batch: 28727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27206-1	BS-09 at 3.5ft	Total/NA	Solid	8021B	28717
885-27206-2	BS25-26 at 3ft	Total/NA	Solid	8021B	28717
885-27206-3	BS25-24 at 5ft	Total/NA	Solid	8021B	28717
MB 885-28717/1-A	Method Blank	Total/NA	Solid	8021B	28717
LCS 885-28717/4-A	Lab Control Sample	Total/NA	Solid	8021B	28717
885-27206-2 MS	BS25-26 at 3ft	Total/NA	Solid	8021B	28717
885-27206-2 MSD	BS25-26 at 3ft	Total/NA	Solid	8021B	28717

### **GC Semi VOA**

#### **Analysis Batch: 28707**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27206-1	BS-09 at 3.5ft	Total/NA	Solid	8015M/D	28719
885-27206-2	BS25-26 at 3ft	Total/NA	Solid	8015M/D	28719
885-27206-3	BS25-24 at 5ft	Total/NA	Solid	8015M/D	28719
MB 885-28719/1-A	Method Blank	Total/NA	Solid	8015M/D	28719
LCS 885-28719/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	28719

#### Prep Batch: 28719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27206-1	BS-09 at 3.5ft	Total/NA	Solid	SHAKE	
885-27206-2	BS25-26 at 3ft	Total/NA	Solid	SHAKE	
885-27206-3	BS25-24 at 5ft	Total/NA	Solid	SHAKE	
MB 885-28719/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-28719/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

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### **QC Association Summary**

Client: Vertex Job ID: 885-27206-1

Project/Site: B Lee State #006

### HPLC/IC

Prep Batch: 28722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Bate	.ch
885-27206-1	BS-09 at 3.5ft	Total/NA	Solid	300_Prep	_
885-27206-2	BS25-26 at 3ft	Total/NA	Solid	300_Prep	
885-27206-3	BS25-24 at 5ft	Total/NA	Solid	300_Prep	
MB 885-28722/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-28722/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

### Analysis Batch: 28732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27206-1	BS-09 at 3.5ft	Total/NA	Solid	300.0	28722
885-27206-2	BS25-26 at 3ft	Total/NA	Solid	300.0	28722
885-27206-3	BS25-24 at 5ft	Total/NA	Solid	300.0	28722
MB 885-28722/1-A	Method Blank	Total/NA	Solid	300.0	28722
LCS 885-28722/2-A	Lab Control Sample	Total/NA	Solid	300.0	28722

Client: Vertex

Client Sample ID: BS-09 at 3.5ft

Date Collected: 06/18/25 12:30 Date Received: 06/20/25 08:25 Lab Sample ID: 885-27206-1

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			28717	СМ	EET ALB	06/20/25 09:30
Total/NA	Analysis	8015M/D		1	28726	JP	EET ALB	06/20/25 12:18
Total/NA	Prep	5035			28717	CM	EET ALB	06/20/25 09:30
Total/NA	Analysis	8021B		1	28727	JP	EET ALB	06/20/25 12:18
Total/NA	Prep	SHAKE			28719	MI	EET ALB	06/20/25 09:48
Total/NA	Analysis	8015M/D		1	28707	EM	EET ALB	06/20/25 11:58
Total/NA	Prep	300_Prep			28722	MA	EET ALB	06/20/25 10:19
Total/NA	Analysis	300.0		20	28732	MA	EET ALB	06/20/25 12:01

Client Sample ID: BS25-26 at 3ft

Date Collected: 06/18/25 12:20

Date Received: 06/20/25 08:25

Lab Sample ID: 885-27206-2

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			28717	СМ	EET ALB	06/20/25 09:30
Total/NA	Analysis	8015M/D		1	28726	JP	EET ALB	06/20/25 12:40
Total/NA	Prep	5035			28717	CM	EET ALB	06/20/25 09:30
Total/NA	Analysis	8021B		1	28727	JP	EET ALB	06/20/25 12:40
Total/NA	Prep	SHAKE			28719	MI	EET ALB	06/20/25 09:48
Total/NA	Analysis	8015M/D		1	28707	EM	EET ALB	06/20/25 12:09
Total/NA	Prep	300_Prep			28722	MA	EET ALB	06/20/25 10:19
Total/NA	Analysis	300.0		20	28732	MA	EET ALB	06/20/25 12:14

Client Sample ID: BS25-24 at 5ft

Date Collected: 06/18/25 12:00

Date Received: 06/20/25 08:25

Lab Sample ID: 885-27206-3

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			28717	СМ	EET ALB	06/20/25 09:30
Total/NA	Analysis	8015M/D		1	28726	JP	EET ALB	06/20/25 13:01
Total/NA	Prep	5035			28717	CM	EET ALB	06/20/25 09:30
Total/NA	Analysis	8021B		1	28727	JP	EET ALB	06/20/25 13:01
Total/NA	Prep	SHAKE			28719	MI	EET ALB	06/20/25 09:48
Total/NA	Analysis	8015M/D		1	28707	EM	EET ALB	06/20/25 12:20
Total/NA	Prep	300_Prep			28722	MA	EET ALB	06/20/25 10:19
Total/NA	Analysis	300.0		20	28732	MA	EET ALB	06/20/25 12:27

#### Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

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### **Accreditation/Certification Summary**

Client: Vertex Job ID: 885-27206-1

Project/Site: B Lee State #006

### **Laboratory: Eurofins Albuquerque**

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

uthority	Progra	am	Identification Number	<b>Expiration Date</b>
ew Mexico	State		NM9425, NM0901	02-27-26
• •	are included in this report, bu	it the laboratory is not certif	ied by the governing authority. This lis	st may include analytes
Analysis Method	Prep Method	Matrix	Analyte	
300.0	300_Prep	Solid	Chloride	
8015M/D	5035	Solid	Gasoline Range Organics	[C6 - C10]
8015M/D	SHAKE	Solid	Diesel Range Organics [C	10-C28]
8015M/D	SHAKE	Solid	Motor Oil Range Organics	[C28-C40]
8021B	5035	Solid	Benzene	
8021B	5035	Solid	Ethylbenzene	
8021B	5035	Solid	Toluene	
8021B	5035	Solid	Xylenes, Total	
egon	NELA		NM100001	02-26-26

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6/23/2025

Received by OCD: 7/16/2025 12:00:36 AM

	Chain	of-Cu	stody Record	Turn-Around	Time:									MX	/T.E		NI N			
Client:	Verte	k (bill to I	Devon Energy, Jim Raley)	1 x	Rush (Sa	me Day)											30I	1E'	H	K#
				Project Nam		,			45						ment					
Mailing	Address:		3101 Boyd Dr	B Lee S	tate #006			49	01 H									10! 88	5-272	06 COC
			Carlsbad, New Mexico	Project #:			1					975					-4107		/ -	00 000
Phone	#:		575.725.5001	25A-01934					Tr.								PIN			
email o	r Fax#:			Project Mana	ager:			6					SO4			ıt)				
QA/QC □ Star	Package: idard		☐ Level 4 (Full Validation)	Sally Cartta	r ertexresource.c	<u>com</u>	TMB's (8021)	)/MRC	PCB's		8270SIMS		PO <sub>4</sub> , S(			t/Abser				
Accred		☐ Az Co	ompliance	Sampler: On Ice:	Sharon I	Minnix  No moju		:0 / DR(	s/8082	04.1)	or 8270		NO <sub>2</sub> ,		(A)	Coliform (Present/Absent)				
□ EDD	(Type)			# of Coolers:	·		MTBE /	(GR	cide	g poi	310	8 Metals	NO <sub>3</sub> ,	2	i-VC	orm (				
Date	Time	Matrix	Sample Name	Cooler Temp Container Type and #	Preservative Type	+(1.7 = 3.3 · · HEAL No.	M /GE	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082	EDB (Method 504.1)	PAHs by 8310	RCRA 8 M	CDF, Br,	8260 (VOA)	8270 (Semi-VOA)	Total Colife				
6.18.25	12:30	Soil	BS25-09 at 3.5ft	1, 4oz jar	ICE		х	Х					Х							
6.18.25	12:20	Soil	BS25-26 at 3ft	1, 4oz jar	ICE		х	Х					Х							
6.18.25	12:00	Soil	BS25-24 at 5ft	1, 4oz jar	ICE		х	х					Х							
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Date: Date: VIAIG	Time: Time:  V40	Relinquish	van Minnix	Received by: Received by:	Via: Caure	Date Time  V 19/25 1/30  Date Time  120/25 8:25	CC.	Sally mian	Car @ve	rttar ertex	(SC	artta ource	r@v e.cor	erte: n, a	xresond S	ource Share	: Mat e.com on Mir tepor	nnix	kles	







6/23/2025

### **Login Sample Receipt Checklist**

Client: Vertex Job Number: 885-27206-1

Login Number: 27206 List Source: Eurofins Albuquerque

List Number: 1

Creator: Casarrubias, Tracy

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

**Environment Testing** 

## **ANALYTICAL REPORT**

### PREPARED FOR

Attn: Ms. Sally Carttar Vertex 3101 Boyd Dr Carlsbad, New Mexico 88220

Generated 6/23/2025 1:33:19 PM

### **JOB DESCRIPTION**

B Lee State #006

## **JOB NUMBER**

885-27207-1

Eurofins Albuquerque 4901 Hawkins NE Albuquerque NM 87109

## **Eurofins Albuquerque**

### **Job Notes**

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

### **Authorization**

Generated 6/23/2025 1:33:19 PM

Authorized for release by Cheyenne Cason, Project Manager cheyenne.cason@et.eurofinsus.com (505)338-8812 ď

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Client: Vertex
Laboratory Job ID: 885-27207-1
Project/Site: B Lee State #006

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### **Definitions/Glossary**

Client: Vertex Job ID: 885-27207-1

Project/Site: B Lee State #006

JOD ID. 000-217

### **Glossary**

MDA

Abbreviation	These commonly used abbreviations may or may not be present in this report.
<b>\$</b>	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"

MDC Minimum Detectable Concentration (Radiochemistry)
MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

Minimum Detectable Activity (Radiochemistry)

 NEG
 Negative / Absent

 POS
 Positive / Present

 PQL
 Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

#### **Case Narrative**

Client: Vertex Job ID: 885-27207-1

Project: B Lee State #006

Job ID: 885-27207-1 Eurofins Albuquerque

## Job Narrative 885-27207-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these
  situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise
  specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

#### Receipt

The samples were received on 6/20/2025 8:25 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.3°C.

#### Gasoline Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### **Diesel Range Organics**

Method 8015D\_DRO: Surrogate recovery for the following sample is outside the upper control limit: (CCV 885-28707/51). Corresponding CCV has high surrogate. However, samples have acceptable surrogate within range. Therefore, data is reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Albuquerque

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Client: Vertex Job ID: 885-27207-1

Project/Site: B Lee State #006

Client Sample ID: BS25-25 at 5ft

Date Collected: 06/17/25 08:40 Date Received: 06/20/25 08:25

Analyte

Chloride

Lab Sample ID: 885-27207-1

Matrix: Solid

Dil Fac

20

Analyzed

06/20/25 12:41

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		06/20/25 09:44	06/20/25 13:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		15 - 150			06/20/25 09:44	06/20/25 13:45	1
Method: SW846 8021B - Volatile (	Organic Comp	ounds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/20/25 09:44	06/20/25 13:45	1
Ethylbenzene	ND		0.050	mg/Kg		06/20/25 09:44	06/20/25 13:45	1
Toluene	ND		0.050	mg/Kg		06/20/25 09:44	06/20/25 13:45	1
Xylenes, Total	ND		0.099	mg/Kg		06/20/25 09:44	06/20/25 13:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		15 - 150			06/20/25 09:44	06/20/25 13:45	1
Method: SW846 8015M/D - Diesel	Range Organ	ics (DRO) (	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	13		9.7	mg/Kg		06/20/25 09:48	06/20/25 12:32	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		06/20/25 09:48	06/20/25 12:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	108		62 - 134			06/20/25 09:48	06/20/25 12:32	1

RL

60

Result Qualifier

180

Unit

mg/Kg

Prepared

06/20/25 10:19

Client: Vertex Job ID: 885-27207-1

Project/Site: B Lee State #006

Analyte

Chloride

Client Sample ID: WS25-05 at 0-5ft Lab Sample ID: 885-27207-2

Result Qualifier

320

Date Collected: 06/17/25 09:00 Matrix: Solid

Date Received: 06/20/25 08:25

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		3.8	mg/Kg		06/20/25 09:44	06/20/25 14:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		15 - 150			06/20/25 09:44	06/20/25 14:07	1
Method: SW846 8021B - Volatile (	Organic Comp	ounds (GC)	)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.019	mg/Kg		06/20/25 09:44	06/20/25 14:07	1
Ethylbenzene	ND		0.038	mg/Kg		06/20/25 09:44	06/20/25 14:07	1
Toluene	ND		0.038	mg/Kg		06/20/25 09:44	06/20/25 14:07	1
Xylenes, Total	ND		0.076	mg/Kg		06/20/25 09:44	06/20/25 14:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		15 - 150			06/20/25 09:44	06/20/25 14:07	1
Method: SW846 8015M/D - Diesel	Range Organ	ics (DRO) (	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5	mg/Kg		06/20/25 09:48	06/20/25 12:43	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		06/20/25 09:48	06/20/25 12:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	112		62 - 134			06/20/25 09:48	06/20/25 12:43	1

RL

60

Unit

mg/Kg

Prepared

06/20/25 10:19

Dil Fac

20

Analyzed

06/20/25 12:54

Client: Vertex Job ID: 885-27207-1

Project/Site: B Lee State #006

Client Sample ID: BS25-12 at 5ft

Date Collected: 06/17/25 09:10 Date Received: 06/20/25 08:25

Lab Sample ID: 885-27207-3

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		06/20/25 09:44	06/20/25 14:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		15 - 150			06/20/25 09:44	06/20/25 14:29	1
Method: SW846 8021B - Volatile	•	, ,	RI	Unit	n	Prepared	Analyzed	Dil Fac
Method: SW846 8021B - Volatile Analyte	•	ounds (GC) Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
	•	, ,	RL	Unit mg/Kg	<u>D</u>	Prepared 06/20/25 09:44	Analyzed 06/20/25 14:29	Dil Fac
Analyte	Result	, ,			<u>D</u>			<b>Dil Fac</b> 1
Analyte Benzene	Result ND	, ,	0.023	mg/Kg	<u>D</u>	06/20/25 09:44	06/20/25 14:29	Dil Fac 1 1 1
Analyte Benzene Ethylbenzene	Result ND ND	, ,	0.023 0.047	mg/Kg	<u> </u>	06/20/25 09:44 06/20/25 09:44	06/20/25 14:29 06/20/25 14:29	Dil Fac 1 1 1 1

4-Bromofluorobenzene (Surr)	92		15 - 150			06/20/25 09:44	06/20/25 14:29	1
- Method: SW846 8015M/D - Diese	l Range Organ	ics (DRO) (	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	24		9.1	mg/Kg		06/20/25 09:48	06/20/25 12:54	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		06/20/25 09:48	06/20/25 12:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	117		62 - 134			06/20/25 09:48	06/20/25 12:54	1

Method: EPA 300.0 - Anions, Ion Chromatography										
	Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
	Chloride	390	60	mg/Kg		06/20/25 10:19	06/20/25 13:07	20		

Client: Vertex Job ID: 885-27207-1

Project/Site: B Lee State #006

Client Sample ID: BS25-11 at 3ft

Date Collected: 06/17/25 09:20

105

550

Result Qualifier

Lab Sample ID: 885-27207-4 Matrix: Solid

06/20/25 09:48

Prepared

06/20/25 10:19

D

06/20/25 13:05

Analyzed

06/20/25 13:20

Dil Fac

20

Date Received: 06/20/25 08:25

Di-n-octyl phthalate (Surr)

Analyte

Chloride

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.5	mg/Kg		06/20/25 09:44	06/20/25 14:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		15 - 150			06/20/25 09:44	06/20/25 14:50	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		06/20/25 09:44	06/20/25 14:50	1
Ethylbenzene	ND		0.045	mg/Kg		06/20/25 09:44	06/20/25 14:50	1
Toluene	ND		0.045	mg/Kg		06/20/25 09:44	06/20/25 14:50	1
Xylenes, Total	ND		0.091	mg/Kg		06/20/25 09:44	06/20/25 14:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		15 - 150			06/20/25 09:44	06/20/25 14:50	1
- Method: SW846 8015M/D - Diese	I Range Organ	ics (DRO) (	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	16		9.1	mg/Kg		06/20/25 09:48	06/20/25 13:05	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		06/20/25 09:48	06/20/25 13:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

62 - 134

RL

60

Unit

mg/Kg

Eurofins Albuquerque

2

3

5

8

10

Client: Vertex Job ID: 885-27207-1

Project/Site: B Lee State #006

Client Sample ID: BS25-32 at 3ft

Date Collected: 06/17/25 09:30 Date Received: 06/20/25 08:25 Lab Sample ID: 885-27207-5

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		3.4	mg/Kg		06/20/25 09:44	06/20/25 15:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		15 - 150			06/20/25 09:44	06/20/25 15:12	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.017	mg/Kg		06/20/25 09:44	06/20/25 15:12	1
Ethylbenzene	ND		0.034	mg/Kg		06/20/25 09:44	06/20/25 15:12	1
Toluene	ND		0.034	mg/Kg		06/20/25 09:44	06/20/25 15:12	1
Xylenes, Total	ND		0.068	mg/Kg		06/20/25 09:44	06/20/25 15:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		<u> 15 - 150</u>			06/20/25 09:44	06/20/25 15:12	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	26		9.6	mg/Kg		06/20/25 09:48	06/20/25 13:16	1
Motor Oil Range Organics [C28-C40]	54		48	mg/Kg		06/20/25 09:48	06/20/25 13:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	115		62 - 134			06/20/25 09:48	06/20/25 13:16	1

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	440	60	mg/Kg		06/20/25 10:19	06/20/25 13:33	20

Dil Fac

20

Analyzed

06/20/25 14:13

### **Client Sample Results**

Client: Vertex Job ID: 885-27207-1

Project/Site: B Lee State #006

Client Sample ID: BS25-10 at 3ft

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte

Chloride

Result Qualifier

510

Lab Sample ID: 885-27207-6 Date Collected: 06/17/25 09:40

Matrix: Solid

Date Received: 06/20/25 08:25

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.4	mg/Kg		06/20/25 09:44	06/20/25 15:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		15 - 150			06/20/25 09:44	06/20/25 15:34	1
Method: SW846 8021B - Volatile (	Organic Comp	ounds (GC)	)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.022	mg/Kg		06/20/25 09:44	06/20/25 15:34	1
Ethylbenzene	ND		0.044	mg/Kg		06/20/25 09:44	06/20/25 15:34	1
Toluene	ND		0.044	mg/Kg		06/20/25 09:44	06/20/25 15:34	1
Xylenes, Total	ND		0.089	mg/Kg		06/20/25 09:44	06/20/25 15:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		15 _ 150			06/20/25 09:44	06/20/25 15:34	1
Method: SW846 8015M/D - Diesel	Range Organ	ics (DRO) (	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9	mg/Kg		06/20/25 09:48	06/20/25 13:28	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		06/20/25 09:48	06/20/25 13:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	115		62 - 134			06/20/25 09:48	06/20/25 13:28	1

RL

60

Unit

mg/Kg

Prepared

06/20/25 10:19

Client: Vertex Job ID: 885-27207-1

Project/Site: B Lee State #006

Client Sample ID: BS25-23 at 3ft

Date Collected: 06/17/25 09:50 Date Received: 06/20/25 08:25

Analyte

Chloride

Lab Sample ID: 885-27207-7

Matrix: Solid

Dil Fac

20

Analyzed

06/20/25 14:26

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.0	mg/Kg		06/20/25 09:44	06/20/25 16:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		15 - 150			06/20/25 09:44	06/20/25 16:18	1
Method: SW846 8021B - Volatile (	Organic Comp	ounds (GC)	)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.020	mg/Kg		06/20/25 09:44	06/20/25 16:18	1
Ethylbenzene	ND		0.040	mg/Kg		06/20/25 09:44	06/20/25 16:18	1
Toluene	ND		0.040	mg/Kg		06/20/25 09:44	06/20/25 16:18	1
Xylenes, Total	ND		0.080	mg/Kg		06/20/25 09:44	06/20/25 16:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		15 _ 150			06/20/25 09:44	06/20/25 16:18	1
Method: SW846 8015M/D - Diesel	Range Organ	ics (DRO) (	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2	mg/Kg		06/20/25 09:48	06/20/25 13:39	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		06/20/25 09:48	06/20/25 13:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	106		62 - 134			06/20/25 09:48	06/20/25 13:39	1

RL

60

Result Qualifier

460

Unit

mg/Kg

Prepared

06/20/25 10:19

Client: Vertex Job ID: 885-27207-1

Project/Site: B Lee State #006

Client Sample ID: BS25-27 at 3ft

Date Collected: 06/17/25 10:00 Date Received: 06/20/25 08:25 Lab Sample ID: 885-27207-8

Matrix: Solid

Method: SW846 8015M/D - Gaso	line Range Org	anics (GRO	) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		06/20/25 09:44	06/20/25 16:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		15 - 150			06/20/25 09:44	06/20/25 16:40	1
Analyte		Qualifier	RL	Unit	_ <u>D</u>	Prepared	Analyzed	Dil Fac
Method: SW846 8021B - Volatile	•	,		Unit	<b>D</b>	Dronarod	Analyzod	Dil Esc
Benzene	ND		0.024	mg/Kg		06/20/25 09:44	06/20/25 16:40	
Ethylbenzene	ND		0.047	mg/Kg		06/20/25 09:44	06/20/25 16:40	1
Toluene	ND		0.047	mg/Kg		06/20/25 09:44	06/20/25 16:40	1
Xylenes, Total	ND		0.094	mg/Kg		06/20/25 09:44	06/20/25 16:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		15 - 150			06/20/25 09:44	06/20/25 16:40	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3	mg/Kg		06/20/25 09:48	06/20/25 13:50	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		06/20/25 09:48	06/20/25 13:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	107		62 - 134			06/20/25 09:48	06/20/25 13:50	1

Welliod: EPA 300.0 - Allions, lon C	ınromatograpı	ıy						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	390		60	mg/Kg		06/20/25 10:19	06/20/25 14:39	20

Client: Vertex Job ID: 885-27207-1

Project/Site: B Lee State #006

Client Sample ID: BS25-15 at 3ft

Date Collected: 06/17/25 10:10 Date Received: 06/20/25 08:25

4-Bromofluorobenzene (Surr)

Lab Sample ID: 885-27207-9

06/20/25 17:02

06/20/25 09:44

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		3.5	mg/Kg		06/20/25 09:44	06/20/25 17:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		15 - 150			06/20/25 09:44	06/20/25 17:02	1
Method: SW846 8021B - Volatile Analyte	•	. ,	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	ounds (GC) Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Analyte	•	. ,		Unit mg/Kg	<u>D</u>	Prepared 06/20/25 09:44	Analyzed 06/20/25 17:02	Dil Fac
Analyte	Result	. ,			<u>D</u>			Dil Fac
Analyte Benzene	Result ND	. ,	0.017	mg/Kg	<u>D</u>	06/20/25 09:44	06/20/25 17:02	Dil Fac 1 1 1
Analyte Benzene Ethylbenzene	Result ND ND	. ,	0.017 0.035	mg/Kg	<u>D</u>	06/20/25 09:44 06/20/25 09:44	06/20/25 17:02 06/20/25 17:02	Dil Fac 1 1 1 1 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	52		9.6	mg/Kg		06/20/25 09:48	06/20/25 14:01	1
Motor Oil Range Organics	84		48	mg/Kg		06/20/25 09:48	06/20/25 14:01	1
[C28-C40]								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	106		62 - 134			06/20/25 09:48	06/20/25 14:01	1

15 - 150

93

motilod: El A 000.0 Amono, ion o	motified. El A 666.6 Alliono, for officinatography									
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac			
Chloride	580	60	mg/Kg		06/20/25 10:19	06/20/25 14:52	20			

Prep Batch: 28717

Job ID: 885-27207-1

Project/Site: B Lee State #006

Client: Vertex

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-28717/1-A Client Sample ID: Method Blank Prep Type: Total/NA

**Matrix: Solid** Analysis Batch: 28726

MB MB Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Gasoline Range Organics [C6 - C10] ND 5.0 mg/Kg 06/20/25 09:30 06/20/25 11:56

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 103 15 - 150 06/20/25 09:30 06/20/25 11:56

Lab Sample ID: LCS 885-28717/3-A Client Sample ID: Lab Control Sample Prep Type: Total/NA

**Matrix: Solid** 

Analysis Batch: 28726

Prep Batch: 28717 Spike LCS LCS %Rec

Analyte Added Result Qualifier Unit %Rec Limits 25.0 27.1 109 Gasoline Range Organics [C6 mg/Kg 70 - 130

C10]

LCS LCS

Surrogate %Recovery Qualifier Limits 15 - 150 4-Bromofluorobenzene (Surr) 214

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-28717/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

**Analysis Batch: 28727** Prep Batch: 28717 MB MB

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac ND 0.025 06/20/25 09:30 06/20/25 11:56 Benzene mg/Kg Ethylbenzene ND 0.050 mg/Kg 06/20/25 09:30 06/20/25 11:56 Toluene NΠ 0.050 06/20/25 09:30 06/20/25 11:56 mg/Kg Xylenes, Total ND 0.10 mg/Kg 06/20/25 09:30 06/20/25 11:56

MB MB

Surrogate %Recovery Qualifier Limits Dil Fac Prepared Analyzed 4-Bromofluorobenzene (Surr) 15 - 150 06/20/25 09:30 06/20/25 11:56 95

Lab Sample ID: LCS 885-28717/4-A Client Sample ID: Lab Control Sample

**Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 28727** Prep Batch: 28717

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	1.00	0.881		mg/Kg		88	70 - 130	
Ethylbenzene	1.00	0.922		mg/Kg		92	70 - 130	
m,p-Xylene	2.00	1.87		mg/Kg		93	70 - 130	
o-Xylene	1.00	0.929		mg/Kg		93	70 - 130	
Toluene	1.00	0.887		mg/Kg		89	70 - 130	
Xylenes, Total	3.00	2.80		mg/Kg		93	70 - 130	

LCS LCS

%Recovery Qualifier Limits Surrogate 15 - 150 4-Bromofluorobenzene (Surr) 96

Client: Vertex Job ID: 885-27207-1

Project/Site: B Lee State #006

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-28719/1-A **Matrix: Solid** 

Lab Sample ID: LCS 885-28719/2-A

**Analysis Batch: 28707** 

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 28719

MB MB Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Diesel Range Organics [C10-C28] ND 10 mg/Kg 06/20/25 09:48 06/20/25 11:36 Motor Oil Range Organics [C28-C40] ND 50 mg/Kg 06/20/25 09:48 06/20/25 11:36

MB MB

Qualifier Limits Dil Fac Surrogate %Recovery Prepared Analyzed Di-n-octyl phthalate (Surr) 105 62 - 134 06/20/25 09:48 06/20/25 11:36

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 28719

Prep Batch: 28722

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits Diesel Range Organics 50.0 50.5 101 51 - 148 mg/Kg

[C10-C28]

**Matrix: Solid** 

**Analysis Batch: 28707** 

LCS LCS

Surrogate %Recovery Qualifier Limits Di-n-octyl phthalate (Surr) 101 62 - 134

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-28722/1-A Client Sample ID: Method Blank

**Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 28732** Prep Batch: 28722

мв мв

Analyte Result Qualifier RL Unit D Dil Fac Prepared Analyzed Chloride ND 1.5 mg/Kg 06/20/25 10:19 06/20/25 11:35

Lab Sample ID: LCS 885-28722/2-A Client Sample ID: Lab Control Sample **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 28732

LCS LCS Spike %Rec

Analyte Added Result Qualifier Unit D %Rec Limits Chloride 15.0 15.6 104 90 - 110 mg/Kg

## **QC Association Summary**

Client: Vertex Job ID: 885-27207-1

Project/Site: B Lee State #006

**GC VOA** 

Prep Batch: 28717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27207-1	BS25-25 at 5ft	Total/NA	Solid	5035	
885-27207-2	WS25-05 at 0-5ft	Total/NA	Solid	5035	
885-27207-3	BS25-12 at 5ft	Total/NA	Solid	5035	
885-27207-4	BS25-11 at 3ft	Total/NA	Solid	5035	
885-27207-5	BS25-32 at 3ft	Total/NA	Solid	5035	
885-27207-6	BS25-10 at 3ft	Total/NA	Solid	5035	
885-27207-7	BS25-23 at 3ft	Total/NA	Solid	5035	
885-27207-8	BS25-27 at 3ft	Total/NA	Solid	5035	
885-27207-9	BS25-15 at 3ft	Total/NA	Solid	5035	
MB 885-28717/1-A	Method Blank	Total/NA	Solid	5035	
LCS 885-28717/3-A	Lab Control Sample	Total/NA	Solid	5035	
LCS 885-28717/4-A	Lab Control Sample	Total/NA	Solid	5035	

Analysis Batch: 28726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27207-1	BS25-25 at 5ft	Total/NA	Solid	8015M/D	28717
885-27207-2	WS25-05 at 0-5ft	Total/NA	Solid	8015M/D	28717
885-27207-3	BS25-12 at 5ft	Total/NA	Solid	8015M/D	28717
885-27207-4	BS25-11 at 3ft	Total/NA	Solid	8015M/D	28717
885-27207-5	BS25-32 at 3ft	Total/NA	Solid	8015M/D	28717
885-27207-6	BS25-10 at 3ft	Total/NA	Solid	8015M/D	28717
885-27207-7	BS25-23 at 3ft	Total/NA	Solid	8015M/D	28717
885-27207-8	BS25-27 at 3ft	Total/NA	Solid	8015M/D	28717
885-27207-9	BS25-15 at 3ft	Total/NA	Solid	8015M/D	28717
MB 885-28717/1-A	Method Blank	Total/NA	Solid	8015M/D	28717
LCS 885-28717/3-A	Lab Control Sample	Total/NA	Solid	8015M/D	28717

**Analysis Batch: 28727** 

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27207-1	BS25-25 at 5ft	Total/NA	Solid	8021B	28717
885-27207-2	WS25-05 at 0-5ft	Total/NA	Solid	8021B	28717
885-27207-3	BS25-12 at 5ft	Total/NA	Solid	8021B	28717
885-27207-4	BS25-11 at 3ft	Total/NA	Solid	8021B	28717
885-27207-5	BS25-32 at 3ft	Total/NA	Solid	8021B	28717
885-27207-6	BS25-10 at 3ft	Total/NA	Solid	8021B	28717
885-27207-7	BS25-23 at 3ft	Total/NA	Solid	8021B	28717
885-27207-8	BS25-27 at 3ft	Total/NA	Solid	8021B	28717
885-27207-9	BS25-15 at 3ft	Total/NA	Solid	8021B	28717
MB 885-28717/1-A	Method Blank	Total/NA	Solid	8021B	28717
LCS 885-28717/4-A	Lab Control Sample	Total/NA	Solid	8021B	28717

**GC Semi VOA** 

**Analysis Batch: 28707** 

<b>Lab Sample ID</b> 885-27207-1	Client Sample ID BS25-25 at 5ft	Prep Type Total/NA	Matrix Solid	Method 8015M/D	Prep Batch 28719
885-27207-2	WS25-05 at 0-5ft	Total/NA	Solid	8015M/D	28719
885-27207-3	BS25-12 at 5ft	Total/NA	Solid	8015M/D	28719
885-27207-4	BS25-11 at 3ft	Total/NA	Solid	8015M/D	28719
885-27207-5	BS25-32 at 3ft	Total/NA	Solid	8015M/D	28719
885-27207-6	BS25-10 at 3ft	Total/NA	Solid	8015M/D	28719

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## **QC Association Summary**

Client: Vertex Job ID: 885-27207-1

Project/Site: B Lee State #006

### GC Semi VOA (Continued)

### **Analysis Batch: 28707 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27207-7	BS25-23 at 3ft	Total/NA	Solid	8015M/D	28719
885-27207-8	BS25-27 at 3ft	Total/NA	Solid	8015M/D	28719
885-27207-9	BS25-15 at 3ft	Total/NA	Solid	8015M/D	28719
MB 885-28719/1-A	Method Blank	Total/NA	Solid	8015M/D	28719
LCS 885-28719/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	28719

#### Prep Batch: 28719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27207-1	BS25-25 at 5ft	Total/NA	Solid	SHAKE	
885-27207-2	WS25-05 at 0-5ft	Total/NA	Solid	SHAKE	
885-27207-3	BS25-12 at 5ft	Total/NA	Solid	SHAKE	
885-27207-4	BS25-11 at 3ft	Total/NA	Solid	SHAKE	
885-27207-5	BS25-32 at 3ft	Total/NA	Solid	SHAKE	
885-27207-6	BS25-10 at 3ft	Total/NA	Solid	SHAKE	
885-27207-7	BS25-23 at 3ft	Total/NA	Solid	SHAKE	
885-27207-8	BS25-27 at 3ft	Total/NA	Solid	SHAKE	
885-27207-9	BS25-15 at 3ft	Total/NA	Solid	SHAKE	
MB 885-28719/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-28719/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

#### **HPLC/IC**

### Prep Batch: 28722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27207-1	BS25-25 at 5ft	Total/NA	Solid	300_Prep	
885-27207-2	WS25-05 at 0-5ft	Total/NA	Solid	300_Prep	
885-27207-3	BS25-12 at 5ft	Total/NA	Solid	300_Prep	
885-27207-4	BS25-11 at 3ft	Total/NA	Solid	300_Prep	
885-27207-5	BS25-32 at 3ft	Total/NA	Solid	300_Prep	
885-27207-6	BS25-10 at 3ft	Total/NA	Solid	300_Prep	
885-27207-7	BS25-23 at 3ft	Total/NA	Solid	300_Prep	
885-27207-8	BS25-27 at 3ft	Total/NA	Solid	300_Prep	
885-27207-9	BS25-15 at 3ft	Total/NA	Solid	300_Prep	
MB 885-28722/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-28722/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

#### Analysis Batch: 28732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27207-1	BS25-25 at 5ft	Total/NA	Solid	300.0	28722
885-27207-2	WS25-05 at 0-5ft	Total/NA	Solid	300.0	28722
885-27207-3	BS25-12 at 5ft	Total/NA	Solid	300.0	28722
885-27207-4	BS25-11 at 3ft	Total/NA	Solid	300.0	28722
885-27207-5	BS25-32 at 3ft	Total/NA	Solid	300.0	28722
885-27207-6	BS25-10 at 3ft	Total/NA	Solid	300.0	28722
885-27207-7	BS25-23 at 3ft	Total/NA	Solid	300.0	28722
885-27207-8	BS25-27 at 3ft	Total/NA	Solid	300.0	28722
885-27207-9	BS25-15 at 3ft	Total/NA	Solid	300.0	28722
MB 885-28722/1-A	Method Blank	Total/NA	Solid	300.0	28722
LCS 885-28722/2-A	Lab Control Sample	Total/NA	Solid	300.0	28722

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Page 18 of 24 Released to Imaging: 8/20/2025 11:23:00 AM

Client: Vertex

Client Sample ID: BS25-25 at 5ft

Date Collected: 06/17/25 08:40 Date Received: 06/20/25 08:25

Lab Sample ID: 885-27207-1

**Matrix: Solid** 

_	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			28717	CM	EET ALB	06/20/25 09:44
Total/NA	Analysis	8015M/D		1	28726	JP	EET ALB	06/20/25 13:45
Total/NA	Prep	5035			28717	CM	EET ALB	06/20/25 09:44
Total/NA	Analysis	8021B		1	28727	JP	EET ALB	06/20/25 13:45
Total/NA	Prep	SHAKE			28719	MI	EET ALB	06/20/25 09:48
Total/NA	Analysis	8015M/D		1	28707	EM	EET ALB	06/20/25 12:32
Total/NA	Prep	300_Prep			28722	MA	EET ALB	06/20/25 10:19
Total/NA	Analysis	300.0		20	28732	MA	EET ALB	06/20/25 12:41

Client Sample ID: WS25-05 at 0-5ft

Date Collected: 06/17/25 09:00

Date Received: 06/20/25 08:25

Lab Sample ID: 885-27207-2

**Matrix: Solid** 

Batch Dilution Batch Batch Prepared or Analyzed **Prep Type** Type Method Run Factor Number Analyst Lab Total/NA 5035 СМ EET ALB 06/20/25 09:44 Prep 28717 Total/NA 8015M/D 06/20/25 14:07 Analysis 1 28726 JP **EET ALB** Total/NA 5035 **EET ALB** 06/20/25 09:44 Prep 28717 CM 28727 JP Total/NA Analysis 8021B 1 **EET ALB** 06/20/25 14:07 Total/NA SHAKE **EET ALB** 06/20/25 09:48 Prep 28719 MI Total/NA Analysis 8015M/D 1 28707 EM **EET ALB** 06/20/25 12:43 EET ALB 06/20/25 10:19 Total/NA Prep 300\_Prep 28722 MA Total/NA Analysis 300.0 20 28732 MA **EET ALB** 06/20/25 12:54

Client Sample ID: BS25-12 at 5ft

Date Collected: 06/17/25 09:10

Date Received: 06/20/25 08:25

Lab Sample ID: 885-27207-3

_	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			28717	CM	EET ALB	06/20/25 09:44
Total/NA	Analysis	8015M/D		1	28726	JP	EET ALB	06/20/25 14:29
Total/NA	Prep	5035			28717	CM	EET ALB	06/20/25 09:44
Total/NA	Analysis	8021B		1	28727	JP	EET ALB	06/20/25 14:29
Total/NA	Prep	SHAKE			28719	MI	EET ALB	06/20/25 09:48
Total/NA	Analysis	8015M/D		1	28707	EM	EET ALB	06/20/25 12:54
Total/NA	Prep	300_Prep			28722	MA	EET ALB	06/20/25 10:19
Total/NA	Analysis	300.0		20	28732	MA	EET ALB	06/20/25 13:07

Client Sample ID: BS25-11 at 3ft

Date Collected: 06/17/25 09:20

Date Received: 06/20/25 08:25

Lab Sam	ple ID:	885-27207-4
---------	---------	-------------

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			28717	CM	EET ALB	06/20/25 09:44
Total/NA	Analysis	8015M/D		1	28726	JP	EET ALB	06/20/25 14:50

Eurofins Albuquerque

Matrix: Solid

Client: Vertex

Client Sample ID: BS25-11 at 3ft

Date Collected: 06/17/25 09:20 Date Received: 06/20/25 08:25

Lab Sample ID: 885-27207-4

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			28717	СМ	EET ALB	06/20/25 09:44
Total/NA	Analysis	8021B		1	28727	JP	EET ALB	06/20/25 14:50
Total/NA	Prep	SHAKE			28719	MI	EET ALB	06/20/25 09:48
Total/NA	Analysis	8015M/D		1	28707	EM	EET ALB	06/20/25 13:05
Total/NA	Prep	300_Prep			28722	MA	EET ALB	06/20/25 10:19
Total/NA	Analysis	300.0		20	28732	MA	EET ALB	06/20/25 13:20

Client Sample ID: BS25-32 at 3ft

Date Collected: 06/17/25 09:30 Date Received: 06/20/25 08:25 Lab Sample ID: 885-27207-5

**Matrix: Solid** 

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			28717	СМ	EET ALB	06/20/25 09:44
Total/NA	Analysis	8015M/D		1	28726	JP	EET ALB	06/20/25 15:12
Total/NA	Prep	5035			28717	CM	EET ALB	06/20/25 09:44
Total/NA	Analysis	8021B		1	28727	JP	EET ALB	06/20/25 15:12
Total/NA	Prep	SHAKE			28719	MI	EET ALB	06/20/25 09:48
Total/NA	Analysis	8015M/D		1	28707	EM	EET ALB	06/20/25 13:16
Total/NA	Prep	300_Prep			28722	MA	EET ALB	06/20/25 10:19
Total/NA	Analysis	300.0		20	28732	MA	EET ALB	06/20/25 13:33

Client Sample ID: BS25-10 at 3ft

Date Collected: 06/17/25 09:40 Date Received: 06/20/25 08:25 Lab Sample ID: 885-27207-6

**Matrix: Solid** 

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			28717	СМ	EET ALB	06/20/25 09:44
Total/NA	Analysis	8015M/D		1	28726	JP	EET ALB	06/20/25 15:34
Total/NA	Prep	5035			28717	CM	EET ALB	06/20/25 09:44
Total/NA	Analysis	8021B		1	28727	JP	EET ALB	06/20/25 15:34
Total/NA	Prep	SHAKE			28719	MI	EET ALB	06/20/25 09:48
Total/NA	Analysis	8015M/D		1	28707	EM	EET ALB	06/20/25 13:28
Total/NA	Prep	300_Prep			28722	MA	EET ALB	06/20/25 10:19
Total/NA	Analysis	300.0		20	28732	MA	EET ALB	06/20/25 14:13

Client Sample ID: BS25-23 at 3ft

Date Collected: 06/17/25 09:50 Date Received: 06/20/25 08:25 Lab Sample ID: 885-27207-7

**Matrix: Solid** 

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			28717	СМ	EET ALB	06/20/25 09:44
Total/NA	Analysis	8015M/D		1	28726	JP	EET ALB	06/20/25 16:18
Total/NA	Prep	5035			28717	CM	EET ALB	06/20/25 09:44
Total/NA	Analysis	8021B		1	28727	JP	EET ALB	06/20/25 16:18

Project/Site: B Lee State #006

Client: Vertex

Client Sample ID: BS25-23 at 3ft

Date Collected: 06/17/25 09:50 Date Received: 06/20/25 08:25 Lab Sample ID: 885-27207-7

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	SHAKE			28719	MI	EET ALB	06/20/25 09:48
Total/NA	Analysis	8015M/D		1	28707	EM	EET ALB	06/20/25 13:39
Total/NA	Prep	300_Prep			28722	MA	EET ALB	06/20/25 10:19
Total/NA	Analysis	300.0		20	28732	MA	EET ALB	06/20/25 14:26

Client Sample ID: BS25-27 at 3ft

Date Collected: 06/17/25 10:00

Date Received: 06/20/25 08:25

Lab Sample ID: 885-27207-8

Matrix: Solid

Batch Batch Dilution Batch Prepared Method or Analyzed **Prep Type** Туре Run Factor Number Analyst Lab Total/NA 5035 28717 СМ EET ALB 06/20/25 09:44 Prep Total/NA 8015M/D 06/20/25 16:40 Analysis 28726 JP **EET ALB** 1 Total/NA Prep 5035 28717 CM **EET ALB** 06/20/25 09:44 Total/NA 8021B 28727 JP **EET ALB** 06/20/25 16:40 Analysis 1 Total/NA SHAKE **EET ALB** 06/20/25 09:48 Prep 28719 MI Total/NA Analysis 8015M/D 28707 EM **EET ALB** 06/20/25 13:50 1 Total/NA **EET ALB** 06/20/25 10:19 Prep 300 Prep 28722 MA Total/NA Analysis 300.0 20 28732 MA **EET ALB** 06/20/25 14:39

Client Sample ID: BS25-15 at 3ft

Date Collected: 06/17/25 10:10

Date Received: 06/20/25 08:25

Lab Sample ID: 885-27207-9

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			28717	СМ	EET ALB	06/20/25 09:44
Total/NA	Analysis	8015M/D		1	28726	JP	EET ALB	06/20/25 17:02
Total/NA	Prep	5035			28717	CM	EET ALB	06/20/25 09:44
Total/NA	Analysis	8021B		1	28727	JP	EET ALB	06/20/25 17:02
Total/NA	Prep	SHAKE			28719	MI	EET ALB	06/20/25 09:48
Total/NA	Analysis	8015M/D		1	28707	EM	EET ALB	06/20/25 14:01
Total/NA	Prep	300_Prep			28722	MA	EET ALB	06/20/25 10:19
Total/NA	Analysis	300.0		20	28732	MA	EET ALB	06/20/25 14:52

**Laboratory References:** 

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Eurofins Albuquerque

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### **Accreditation/Certification Summary**

Client: Vertex Job ID: 885-27207-1

Project/Site: B Lee State #006

### **Laboratory: Eurofins Albuquerque**

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Progr	am	Identification Number	<b>Expiration Date</b>
New Mexico	State		NM9425, NM0901	02-27-26
The following analytes	are included in this report, b	ut the laboratory is not certi	fied by the governing authority. This I	ist may include analytes
for which the agency do	oes not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte	
300.0	300_Prep	Solid	Chloride	
8015M/D	5035	Solid	Gasoline Range Organic	s [C6 - C10]
8015M/D	SHAKE	Solid	Diesel Range Organics [	C10-C28]
8015M/D	SHAKE	Solid	Motor Oil Range Organic	s [C28-C40]
8021B	5035	Solid	Benzene	
8021B	5035	Solid	Ethylbenzene	
8021B	5035	Solid	Toluene	
8021B	5035	Solid	Xylenes, Total	
Oregon	NELA	D	NM100001	02-26-26

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6/23/2025

Received by OCD: 7/16/2025 12:00:36 AM

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	Chain-	of-Cu	stody Record	Turn-Around	Time: So	ame Day							-	NI V	T F		NIN		-	
Client:	Vertex	(bill to I	Devon Energy, Jim Raley)		X Rush	ame Day			H	-							NM 3OF		製造業	
				Project Nam									llenv							
Mailing	Address:		3101 Boyd Dr	B Lee S	tate #006			49	01 H	lawk	ins N	NE -	Alb	uqu	erqu	e, N	M 871	0 885	5-27207 C	oc
			Carlsbad, New Mexico	Project #:				Te	el. 50	05-34	45-3	975	F	ах	505-	345-	4107			
Phone	#:		575.725.5001	25A-01934				1 1		1.	, i 1	111		1 1				0.1	ر الم	
email o	r Fax#:			Project Mana	ager:		TMB's (8021)	0					SO4			£				
QA/QC □ Star	Package: idard		□ Level 4 (Full Validation)	Sally Carttar SCarttar@vertexresource.com				/ DRO / MRO)	PCB's		8270SIMS		PO₄,			t/Abse				
Accredi		☐ Az Co	ompliance	Sampler: Sharon Minnix On Ice: No Mai				O / DR	8081 Pesticides/8082	504.1)		0	, NO <sub>2</sub> ,		(AC	Coliform (Present/Absent)				
	(Type)_	_		# of Coolers:			MTBE	(GF	cide	po	310	8 Metals	NO <sub>3</sub> ,	3	i-V	Jr m				
				Cooler Temp	(including CF): 3.1	+0.2 : 3.3.4	Σ	)15D	esti	Meth	by 8	8 M	B,	(VOA)	Sem	Solife				
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.		TPH:8015D(GRO	8081 P	EDB (Method 504.1)	PAHs by 8310 or	RCRA	Q F,	8260 (	8270 (Semi-VOA)	Total C				
6.17.25	8:40	Soil	BS25-25 at 5ft	1, 4oz jar	ICE		X	Х					Х							
6.17.25	9:00	Soil	WS25-05 at <b>0-5f</b>	1, 4oz jar	ICE		х	х					х					$\perp$		
6.17.25	9:10	Soil	BS25-12 at 5ft	1, 4oz jar	ICE		х	Х					х						$\perp \perp$	
6.17.25	9:20	Soil	BS25-11 at 3ft	1, 4oz jar	ICE		х	Х					х							
6.17.25	9:30	Soil	BS25-32 at 3ft	1, 4oz jar	ICE		Х	х					х							
6.17.25	9:40	Soil	BS25-10 at 3ft	1, 4oz jar	ICE		х	х					х							
6.17.25	9:50	Soil	BS25-23 at 3ft	1, 4oz jar	ICE		Х	х					х							_
6.17.25	10:00	Soil	BS25-27 at 3ft	1, 4oz jar	ICE		X	х					х							_
6.17.25	10:10	Soil	BS25 at 3ft	1, 4oz jar	ICE		X	Х					х						$\perp$	
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Date:	Time:	Relinquish Relinquish	on Minnix	Received by:	Via:	Date Time	CC. Per	Sally miar	/ Ca	rttar ertex	(SC	artta ource	r@ve e.con	ertex n, a	resond S	ource Share	: Matt e.com on Min	), nix	kles	
Makis	If necessary	, samples sub	pmitted to Hall Environmental may be subc	contracted to other a	accredited laboratorie	CO   24   25 8: US es. This serves as notice of th													report.	







## **Login Sample Receipt Checklist**

Client: Vertex Job Number: 885-27207-1

Login Number: 27207 List Source: Eurofins Albuquerque

List Number: 1

Creator: Casarrubias, Tracy

oreator. Ousunusias, macy		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
s the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <a href="fig8">&lt;6mm (1/4").</a>	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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**Environment Testing** 

# **ANALYTICAL REPORT**

## PREPARED FOR

Attn: Ms. Sally Carttar Vertex 3101 Boyd Dr Carlsbad, New Mexico 88220

Generated 6/27/2025 12:34:06 PM

# **JOB DESCRIPTION**

B Lee State #006

# **JOB NUMBER**

885-27453-1

Eurofins Albuquerque 4901 Hawkins NE Albuquerque NM 87109

# **Eurofins Albuquerque**

## **Job Notes**

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

## **Authorization**

Generated 6/27/2025 12:34:06 PM

Authorized for release by Cheyenne Cason, Project Manager cheyenne.cason@et.eurofinsus.com (505)338-8812 3

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Client: Vertex
Laboratory Job ID: 885-27453-1
Project/Site: B Lee State #006

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Chain of Custody	18
Receipt Checklists	19

Minimum Level (Dioxin)

Most Probable Number

Not Calculated

Negative / Absent

Positive / Present

Presumptive Quality Control

Method Quantitation Limit

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Not Detected at the reporting limit (or MDL or EDL if shown)

## **Definitions/Glossary**

Client: Vertex Job ID: 885-27453-1

Project/Site: B Lee State #006

laaaam.

<b>Glossary</b>
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ML

MPN

MQL

NC

ND

NEG

POS

PQL

**PRES** 

QC RER

RL

RPD

TEF

TEQ

TNTC

Abbreviation	These commonly used abbreviations may or may not be present in this report.
<b>*</b>	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit

## **Case Narrative**

Client: Vertex Job ID: 885-27453-1

Project: B Lee State #006

Job ID: 885-27453-1 Eurofins Albuquerque

#### Job Narrative 885-27453-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these
  situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise
  specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

#### Receipt

The samples were received on 6/25/2025 7:25 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.8°C.

#### Gasoline Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### **Diesel Range Organics**

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client: Vertex Job ID: 885-27453-1

Project/Site: B Lee State #006

Client Sample ID: BS25-33 at 3.5ft

Date Collected: 06/20/25 10:00 Date Received: 06/25/25 07:25

Lab Sample ID: 885-27453-1

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		06/25/25 11:50	06/26/25 12:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		15 - 150			06/25/25 11:50	06/26/25 12:12	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)	)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/25/25 11:50	06/26/25 12:12	1
Ethylbenzene	ND		0.050	mg/Kg		06/25/25 11:50	06/26/25 12:12	1
Toluene	ND		0.050	mg/Kg		06/25/25 11:50	06/26/25 12:12	1
Xylenes, Total	ND		0.10	mg/Kg		06/25/25 11:50	06/26/25 12:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		15 - 150			06/25/25 11:50	06/26/25 12:12	1
Method: SW846 8015M/D - Diese	I Range Organ	ics (DRO) (	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7	mg/Kg		06/25/25 14:55	06/25/25 21:19	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		06/25/25 14:55	06/25/25 21:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	97		62 - 134			06/25/25 14:55	06/25/25 21:19	
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client: Vertex Job ID: 885-27453-1

Project/Site: B Lee State #006

Client Sample ID: BS25-30 at 3.5ft

Date Collected: 06/20/25 10:15 Date Received: 06/25/25 07:25 Lab Sample ID: 885-27453-2

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		06/25/25 11:50	06/26/25 13:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		<u> 15 - 150</u>			06/25/25 11:50	06/26/25 13:18	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/25/25 11:50	06/26/25 13:18	1
Ethylbenzene	ND		0.050	mg/Kg		06/25/25 11:50	06/26/25 13:18	1
Toluene	ND		0.050	mg/Kg		06/25/25 11:50	06/26/25 13:18	1
Xylenes, Total	ND		0.10	mg/Kg		06/25/25 11:50	06/26/25 13:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		<u> 15 - 150</u>			06/25/25 11:50	06/26/25 13:18	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	30		9.7	mg/Kg		06/25/25 14:55	06/25/25 21:32	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		06/25/25 14:55	06/25/25 21:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	103	-	62 - 134			06/25/25 14:55	06/25/25 21:32	1

Method: EPA 300.0 - Anions, ion C	nromatograpny						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	340	60	mg/Kg		06/26/25 09:13	06/26/25 11:44	20

Client: Vertex Job ID: 885-27453-1

Project/Site: B Lee State #006

Client Sample ID: BS25-31 at 3.5ft

Date Collected: 06/20/25 10:20 Date Received: 06/25/25 07:25

Analyte

Chloride

Lab Sample ID: 885-27453-3

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		06/25/25 11:50	06/26/25 14:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		15 - 150			06/25/25 11:50	06/26/25 14:23	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)	)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/25/25 11:50	06/26/25 14:23	1
Ethylbenzene	ND		0.050	mg/Kg		06/25/25 11:50	06/26/25 14:23	1
Toluene	ND		0.050	mg/Kg		06/25/25 11:50	06/26/25 14:23	1
Xylenes, Total	ND		0.10	mg/Kg		06/25/25 11:50	06/26/25 14:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		15 - 150			06/25/25 11:50	06/26/25 14:23	1
Method: SW846 8015M/D - Diese	Range Organ	ics (DRO) (	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	38		9.4	mg/Kg		06/25/25 14:55	06/25/25 21:44	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		06/25/25 14:55	06/25/25 21:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	102	· <del></del>	62 - 134			06/25/25 14:55	06/25/25 21:44	1

RL

60

Result Qualifier

230

Unit

mg/Kg

Prepared

06/26/25 09:13

Dil Fac

20

Analyzed

06/26/25 11:57

Client: Vertex Job ID: 885-27453-1

Project/Site: B Lee State #006

Client Sample ID: BS25-34 at 3.5ft

Date Collected: 06/20/25 10:30 Date Received: 06/25/25 07:25

Surrogate

Analyte

Chloride

Di-n-octyl phthalate (Surr)

Method: EPA 300.0 - Anions, Ion Chromatography

Lab Sample ID: 885-27453-4

Prepared

06/25/25 14:55

Prepared

06/26/25 09:13

D

Analyzed

06/25/25 21:56

Analyzed

06/26/25 12:11

Dil Fac

Dil Fac

20

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		06/25/25 11:50	06/26/25 14:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		15 - 150			06/25/25 11:50	06/26/25 14:44	1
Method: SW846 8021B - Volatile (	Organic Comp	ounds (GC)	)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/25/25 11:50	06/26/25 14:44	1
Ethylbenzene	ND		0.049	mg/Kg		06/25/25 11:50	06/26/25 14:44	1
Toluene	ND		0.049	mg/Kg		06/25/25 11:50	06/26/25 14:44	1
Xylenes, Total	ND		0.099	mg/Kg		06/25/25 11:50	06/26/25 14:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		15 _ 150			06/25/25 11:50	06/26/25 14:44	1
Method: SW846 8015M/D - Diesel	Range Organ	ics (DRO) (	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8	mg/Kg		06/25/25 14:55	06/25/25 21:56	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		06/25/25 14:55	06/25/25 21:56	1

Limits

62 - 134

RL

60

Unit

mg/Kg

%Recovery

94

360

Result Qualifier

Qualifier

Prep Type: Total/NA

Prep Batch: 28980

Client: Vertex Job ID: 885-27453-1

Project/Site: B Lee State #006

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Client Sample ID: Method Blank Lab Sample ID: MB 885-28980/1-A **Matrix: Solid** 

Analysis Batch: 29066

MB MB Analyte Result Qualifier RLUnit D Prepared Analyzed Dil Fac Gasoline Range Organics [C6 - C10] ND 5.0 mg/Kg 06/25/25 11:50 06/26/25 11:50

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 97 15 - 150 06/25/25 11:50 06/26/25 11:50

Lab Sample ID: LCS 885-28980/2-A Client Sample ID: Lab Control Sample Prep Type: Total/NA

**Matrix: Solid** 

Analysis Batch: 29066

Prep Batch: 28980 Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits

25.0 32.5 130 mg/Kg 70 - 130Gasoline Range Organics [C6 -

C10]

LCS LCS %Recovery Qualifier Surrogate

Limits 220 15 - 150 4-Bromofluorobenzene (Surr)

Lab Sample ID: 885-27453-1 MS Client Sample ID: BS25-33 at 3.5ft Prep Type: Total/NA

**Matrix: Solid** 

Analysis Batch: 29066

Prep Batch: 28980 Sample Sample Spike MS MS Result Qualifier Added Result Qualifier Analyte Unit %Rec Limits 24.9 Gasoline Range Organics [C6 -ND 30.1 mg/Kg 121 70 - 130

MS MS

%Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 214 15 - 150

Lab Sample ID: 885-27453-1 MSD

**Matrix: Solid** 

Analysis Batch: 29066

Sample Sample MSD MSD RPD Spike Result Qualifier Added RPD Limit Analyte Result Qualifier %Rec Limits Unit Gasoline Range Organics [C6 -ND 24.8 32.0 mg/Kg 129

C10]

C10]

MSD MSD

%Recovery Surrogate Qualifier Limits 4-Bromofluorobenzene (Surr) 220 15 - 150

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-28980/1-A

Released to Imaging: 8/20/2025 11:23:00 AM

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 29067** Prep Batch: 28980

MB MB Analyte Result Qualifier RL Unit Dil Fac D Prepared Analyzed 0.025 Benzene ND mg/Kg 06/25/25 11:50 06/26/25 11:50 Ethylbenzene ND 0.050 mg/Kg 06/25/25 11:50 06/26/25 11:50 ND 0.050 06/26/25 11:50 Toluene 06/25/25 11:50 mg/Kg

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Client Sample ID: BS25-33 at 3.5ft

Prep Type: Total/NA Prep Batch: 28980

70 - 130

Client Sample ID: Method Blank

Client: Vertex Job ID: 885-27453-1

Project/Site: B Lee State #006

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 885-28980/1-A **Matrix: Solid** 

Analysis Batch: 29067

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 28980

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.10	mg/Kg		06/25/25 11:50	06/26/25 11:50	1

MR MR

MB MB

%Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 91 15 - 150 06/25/25 11:50 06/26/25 11:50

Lab Sample ID: LCS 885-28980/3-A **Client Sample ID: Lab Control Sample** 

Matrix: Solid

Analysis Batch: 29067

Prep Type: Total/NA

Prep Batch: 28980

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	1.00	0.920		mg/Kg		92	70 - 130	
Ethylbenzene	1.00	0.948		mg/Kg		95	70 - 130	
m,p-Xylene	2.00	1.91		mg/Kg		96	70 - 130	
o-Xylene	1.00	0.954		mg/Kg		95	70 - 130	
Toluene	1.00	0.918		mg/Kg		92	70 - 130	
Xylenes, Total	3.00	2.87		mg/Kg		96	70 - 130	

LCS LCS

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 92 15 - 150

Lab Sample ID: 885-27453-2 MS

**Matrix: Solid** 

Analysis Batch: 29067

Client Sample ID: BS25-30 at 3.5ft

Prep Type: Total/NA

Prep Batch: 28980

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	ND		0.994	0.915		mg/Kg		92	70 - 130	
Ethylbenzene	ND		0.994	0.961		mg/Kg		97	70 - 130	
m,p-Xylene	ND		1.99	1.92		mg/Kg		96	70 - 130	
o-Xylene	ND		0.994	0.957		mg/Kg		96	70 - 130	
Toluene	ND		0.994	0.909		mg/Kg		91	70 - 130	
Xylenes, Total	ND		2.98	2.87		mg/Kg		96	70 - 130	
	MS	MS								

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 89 15 - 150

Lab Sample ID: 885-27453-2 MSD

**Matrix: Solid** 

Analysis Batch: 29067

Client	: Sample I	D:	BS25-30	at 3.5ft

Prep Type: Total/NA

Prep Batch: 28980

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	ND		0.992	0.899		mg/Kg		91	70 - 130	2	20
Ethylbenzene	ND		0.992	0.943		mg/Kg		95	70 - 130	2	20
m,p-Xylene	ND		1.98	1.91		mg/Kg		96	70 - 130	0	20
o-Xylene	ND		0.992	0.952		mg/Kg		96	70 - 130	1	20
Toluene	ND		0.992	0.900		mg/Kg		91	70 - 130	1	20
Xylenes, Total	ND		2.98	2.86		mg/Kg		96	70 - 130	0	20

Client: Vertex Job ID: 885-27453-1

Project/Site: B Lee State #006

Lab Sample ID: 885-27453-2 MSD

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

**Matrix: Solid** 

Analysis Batch: 29067

MSD MSD

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 15 \_ 150 Client Sample ID: BS25-30 at 3.5ft

Client Sample ID: Method Blank

Analyzed

06/25/25 20:55

06/25/25 20:55

Prep Type: Total/NA

Prep Batch: 28980

Prep Type: Total/NA

Prep Batch: 29010

Dil Fac

Dil Fac

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-29010/1-A

Matrix: Solid **Analysis Batch: 28954** 

ND

MB MB Result Qualifier

Analyte Diesel Range Organics [C10-C28] ND

Motor Oil Range Organics [C28-C40]

Lab Sample ID: LCS 885-29010/2-A

Surrogate

Di-n-octyl phthalate (Surr)

Analysis Batch: 28954

MB MB %Recovery

Qualifier 91

Limits 62 - 134

RL

10

50

Unit

mg/Kg

D

Unit

mg/Kg

mg/Kg

LCS LCS

31.7

Result Qualifier

Prepared 06/25/25 14:55

63

D

Prepared

06/25/25 14:55

06/25/25 14:55

06/25/25 20:55

Analyzed

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 29010

%Rec %Rec Limits

51 - 148

Client Sample ID: Method Blank

Analyzed

06/26/25 10:35

**Client Sample ID: Lab Control Sample** 

%Rec

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 29059

Prep Batch: 29059

Dil Fac

Analyte Diesel Range Organics [C10-C28]

Surrogate

**Matrix: Solid** 

LCS LCS %Recovery Qualifier

84

Limits 62 - 134

Spike

Added

50.0

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-29059/1-A

**Matrix: Solid** 

Chloride

**Analysis Batch: 29071** 

Di-n-octyl phthalate (Surr)

MB MB Result Qualifier

ND

Analyte

Lab Sample ID: LCS 885-29059/2-A **Matrix: Solid** 

**Analysis Batch: 29071** 

Analyte Chloride

Spike Added 15.0

RL

1.5

LCS LCS Result Qualifier 14.4

Unit

mg/Kg

Unit mg/Kg

D

Prepared

06/26/25 09:13

%Rec Limits 96 90 - 110

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6/27/2025

# **QC Association Summary**

Client: Vertex

Job ID: 885-27453-1 Project/Site: B Lee State #006

## **GC VOA**

## Prep Batch: 28980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27453-1	BS25-33 at 3.5ft	Total/NA	Solid	5030C	
885-27453-2	BS25-30 at 3.5ft	Total/NA	Solid	5030C	
885-27453-3	BS25-31 at 3.5ft	Total/NA	Solid	5030C	
885-27453-4	BS25-34 at 3.5ft	Total/NA	Solid	5030C	
MB 885-28980/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-28980/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-28980/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-27453-1 MS	BS25-33 at 3.5ft	Total/NA	Solid	5030C	
885-27453-1 MSD	BS25-33 at 3.5ft	Total/NA	Solid	5030C	
885-27453-2 MS	BS25-30 at 3.5ft	Total/NA	Solid	5030C	
885-27453-2 MSD	BS25-30 at 3.5ft	Total/NA	Solid	5030C	

## Analysis Batch: 29066

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27453-1	BS25-33 at 3.5ft	Total/NA	Solid	8015M/D	28980
885-27453-2	BS25-30 at 3.5ft	Total/NA	Solid	8015M/D	28980
885-27453-3	BS25-31 at 3.5ft	Total/NA	Solid	8015M/D	28980
885-27453-4	BS25-34 at 3.5ft	Total/NA	Solid	8015M/D	28980
MB 885-28980/1-A	Method Blank	Total/NA	Solid	8015M/D	28980
LCS 885-28980/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	28980
885-27453-1 MS	BS25-33 at 3.5ft	Total/NA	Solid	8015M/D	28980
885-27453-1 MSD	BS25-33 at 3.5ft	Total/NA	Solid	8015M/D	28980

## Analysis Batch: 29067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27453-1	BS25-33 at 3.5ft	Total/NA	Solid	8021B	28980
885-27453-2	BS25-30 at 3.5ft	Total/NA	Solid	8021B	28980
885-27453-3	BS25-31 at 3.5ft	Total/NA	Solid	8021B	28980
885-27453-4	BS25-34 at 3.5ft	Total/NA	Solid	8021B	28980
MB 885-28980/1-A	Method Blank	Total/NA	Solid	8021B	28980
LCS 885-28980/3-A	Lab Control Sample	Total/NA	Solid	8021B	28980
885-27453-2 MS	BS25-30 at 3.5ft	Total/NA	Solid	8021B	28980
885-27453-2 MSD	BS25-30 at 3.5ft	Total/NA	Solid	8021B	28980

## **GC Semi VOA**

## Analysis Batch: 28954

Lab Sample ID 885-27453-1	Client Sample ID BS25-33 at 3.5ft	Prep Type Total/NA	Matrix Solid	Method 8015M/D	Prep Batch 29010
885-27453-2	BS25-30 at 3.5ft	Total/NA	Solid	8015M/D	29010
885-27453-3	BS25-31 at 3.5ft	Total/NA	Solid	8015M/D	29010
885-27453-4	BS25-34 at 3.5ft	Total/NA	Solid	8015M/D	29010
MB 885-29010/1-A	Method Blank	Total/NA	Solid	8015M/D	29010
LCS 885-29010/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	29010

## Prep Batch: 29010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27453-1	BS25-33 at 3.5ft	Total/NA	Solid	SHAKE	
885-27453-2	BS25-30 at 3.5ft	Total/NA	Solid	SHAKE	
885-27453-3	BS25-31 at 3.5ft	Total/NA	Solid	SHAKE	
885-27453-4	BS25-34 at 3.5ft	Total/NA	Solid	SHAKE	

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## **QC Association Summary**

Client: Vertex Job ID: 885-27453-1

Project/Site: B Lee State #006

## GC Semi VOA (Continued)

## Prep Batch: 29010 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-29010/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-29010/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

## HPLC/IC

## Prep Batch: 29059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27453-1	BS25-33 at 3.5ft	Total/NA	Solid	300_Prep	
885-27453-2	BS25-30 at 3.5ft	Total/NA	Solid	300_Prep	
885-27453-3	BS25-31 at 3.5ft	Total/NA	Solid	300_Prep	
885-27453-4	BS25-34 at 3.5ft	Total/NA	Solid	300_Prep	
MB 885-29059/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-29059/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

## Analysis Batch: 29071

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27453-1	BS25-33 at 3.5ft	Total/NA	Solid	300.0	29059
885-27453-2	BS25-30 at 3.5ft	Total/NA	Solid	300.0	29059
885-27453-3	BS25-31 at 3.5ft	Total/NA	Solid	300.0	29059
885-27453-4	BS25-34 at 3.5ft	Total/NA	Solid	300.0	29059
MB 885-29059/1-A	Method Blank	Total/NA	Solid	300.0	29059
LCS 885-29059/2-A	Lab Control Sample	Total/NA	Solid	300.0	29059

Client: Vertex

Client Sample ID: BS25-33 at 3.5ft Lab Sample ID: 885-27453-1 Date Collected: 06/20/25 10:00

Matrix: Solid

Date Received: 06/25/25 07:25

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			28980	AT	EET ALB	06/25/25 11:50
Total/NA	Analysis	8015M/D		1	29066	AT	EET ALB	06/26/25 12:12
Total/NA	Prep	5030C			28980	AT	EET ALB	06/25/25 11:50
Total/NA	Analysis	8021B		1	29067	AT	EET ALB	06/26/25 12:12
Total/NA	Prep	SHAKE			29010	EM	EET ALB	06/25/25 14:55
Total/NA	Analysis	8015M/D		1	28954	EM	EET ALB	06/25/25 21:19
Total/NA	Prep	300_Prep			29059	RC	EET ALB	06/26/25 09:13
Total/NA	Analysis	300.0		20	29071	RC	EET ALB	06/26/25 11:03

Client Sample ID: BS25-30 at 3.5ft

Lab Sample ID: 885-27453-2

**Matrix: Solid** 

Date Collected: 06/20/25 10:15

Date Received: 06/25/25 07:25

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			28980	AT	EET ALB	06/25/25 11:50
Total/NA	Analysis	8015M/D		1	29066	AT	EET ALB	06/26/25 13:18
Total/NA	Prep	5030C			28980	AT	EET ALB	06/25/25 11:50
Total/NA	Analysis	8021B		1	29067	AT	EET ALB	06/26/25 13:18
Total/NA	Prep	SHAKE			29010	EM	EET ALB	06/25/25 14:55
Total/NA	Analysis	8015M/D		1	28954	EM	EET ALB	06/25/25 21:32
Total/NA	Prep	300_Prep			29059	RC	EET ALB	06/26/25 09:13
Total/NA	Analysis	300.0		20	29071	RC	EET ALB	06/26/25 11:44

Client Sample ID: BS25-31 at 3.5ft

Date Collected: 06/20/25 10:20 Date Received: 06/25/25 07:25 Lab Sample ID: 885-27453-3

**Matrix: Solid** 

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			28980	AT	EET ALB	06/25/25 11:50
Total/NA	Analysis	8015M/D		1	29066	AT	EET ALB	06/26/25 14:23
Total/NA	Prep	5030C			28980	AT	EET ALB	06/25/25 11:50
Total/NA	Analysis	8021B		1	29067	AT	EET ALB	06/26/25 14:23
Total/NA	Prep	SHAKE			29010	EM	EET ALB	06/25/25 14:55
Total/NA	Analysis	8015M/D		1	28954	EM	EET ALB	06/25/25 21:44
Total/NA	Prep	300_Prep			29059	RC	EET ALB	06/26/25 09:13
Total/NA	Analysis	300.0		20	29071	RC	EET ALB	06/26/25 11:57

Client Sample ID: BS25-34 at 3.5ft

Date Collected: 06/20/25 10:30

Lab Sample ID: 885-27453-4

**Matrix: Solid** 

Date Received: 06/25/25 07:25

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			28980	AT	EET ALB	06/25/25 11:50
Total/NA	Analysis	8015M/D		1	29066	AT	EET ALB	06/26/25 14:44

## **Lab Chronicle**

Client: Vertex Job ID: 885-27453-1

Project/Site: B Lee State #006

Date Received: 06/25/25 07:25

Client Sample ID: BS25-34 at 3.5ft

Lab Sample ID: 885-27453-4 Date Collected: 06/20/25 10:30 Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			28980	AT	EET ALB	06/25/25 11:50
Total/NA	Analysis	8021B		1	29067	AT	EET ALB	06/26/25 14:44
Total/NA	Prep	SHAKE			29010	EM	EET ALB	06/25/25 14:55
Total/NA	Analysis	8015M/D		1	28954	EM	EET ALB	06/25/25 21:56
Total/NA	Prep	300_Prep			29059	RC	EET ALB	06/26/25 09:13
_Total/NA	Analysis	300.0		20	29071	RC	EET ALB	06/26/25 12:11

#### Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

## **Accreditation/Certification Summary**

Client: Vertex Job ID: 885-27453-1

Project/Site: B Lee State #006

## Laboratory: Eurofins Albuquerque

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	hority Program		Identification Number	<b>Expiration Date</b>
New Mexico	State	•	NM9425, NM0901	02-27-26
,	are included in this report, I	out the laboratory is not certif	ied by the governing authority. This li	st may include analytes
Analysis Method	Prep Method	Matrix	Analyte	
300.0	300_Prep	Solid	Chloride	
8015M/D	5030C	Solid	Gasoline Range Organics	[C6 - C10]
8015M/D	SHAKE	Solid	Diesel Range Organics [C	:10-C28]
8015M/D	SHAKE	Solid	Motor Oil Range Organics	[C28-C40]
8021B	5030C	Solid	Benzene	
8021B	5030C	Solid	Ethylbenzene	
8021B	5030C	Solid	Toluene	
8021B	5030C	Solid	Xylenes, Total	
Oregon	NEL	AP	NM100001	02-26-26

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Chain-of-Custody	Record Turn-Aro	und Time:	8 hr				ша			NIX	/TE	20	NM	E′		
Chain-of-Custody  Client: Vertex Pack Energy, Mo	H- BICKIES	A Rush (	)										OF			Ě
	Project N	lame:		_			ww	w.ha	llenv	ironi	men	tal.co	m			Ž
Mailing Address: 3101 Bo		e State #006			490	1 Haw	kins	NE	- Alb	uqu	erqu	ie, Ni	VI 871	09 885	-27453 (	200
Carlsba	d, New Mexico Project #	:			Tel.	505-	345-3	3975	F	ax	505-	-345-	4107			
Phone #: 575.725	.5001 <b>25A-019</b> :	34												100		
email or Fax#:	Project N	lanager:		£	0				SO4			ent)				
QA/QC Package:	Sally Ca			802	₹ F	PCB's	MS		PO4, 9			Abse				
☐ Standard ☐ Leve	14 (Full Validation) SCarttar	@vertexresource.	com	TMB's (8021)			8270SIMS		, P(			ent/				
Accreditation:   Az Compliance  Discrete Discret	Sampler: On Ice:	Sharon	Minnix  □ No	1	_	Pesticides/8082	5	10	, NO <sub>2</sub> ,		(AC	(Present/Absent)				
□ EDD (Type)	# of Cool	ers:	muro	MTBE	9	cide	310	etal	NO <sub>3</sub> ,	~	\ <u>-</u>	L L				
	Cooler T	emp(including CF): 2	6+0-2=2.8	Σ	150	Pesticid	8 %	8 Metals	Br,	104	(Semi-VOA)	Coliform				
Date Time Matrix Sam	ple Name Containe		HEAL No.			8081 P		RCRA	OF.	8260 (VOA)	8270 (\$	Total C				
S.20.25 10:00 Soil B	S25-33 at 3.5ft 1, 4oz	ar ICE		Х	х				Х							
6.20.25 10:15 Soil B	S25-30 at 3.5ft 1, 4oz	jar ICE		Х	Х				Х							
26.20.25 10:20 Soil B	S25-31 at 3.5ft 1, 4oz	jar ICE		х	Х				X							
6.20.25 10:30 Soil B	S25-34 at 3.5ft 1, 4oz	ar ICE		Х	х				Х							
					-	+	-	-								+
																$\top$
					-	+										+
Date: Time: Relinquished by:  Date: Time: Relinquished by:  Relinquished by:	Received b	my	Date Time	CC. Peri	Sally	Cartta gverte	r (SC	Cartta ource	ar@v e.cor	ertex	xresond S	ource Sharo	: Matt e.com) n Mini eport.	1	es	
Time: Relinquished by:  A 490	Il Environmental may be subcontracted to	Our accredited laboratori	6/20/75 7/25	s possi	bility A	ny sub-c	ontract	ed data	a will be	e clear	rly note	ated on	the anal	vtical rer	oort	









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## **Login Sample Receipt Checklist**

Client: Vertex Job Number: 885-27453-1

Login Number: 27453 List Source: Eurofins Albuquerque

List Number: 1

Creator: Casarrubias, Tracy

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	True	

c 343 0j 400

**Environment Testing** 

# **ANALYTICAL REPORT**

## PREPARED FOR

Attn: Ms. Sally Carttar Vertex 3101 Boyd Dr Carlsbad, New Mexico 88220

Generated 6/27/2025 12:34:04 PM

# **JOB DESCRIPTION**

B Lee State #006

# **JOB NUMBER**

885-27455-1

Eurofins Albuquerque 4901 Hawkins NE Albuquerque NM 87109

# **Eurofins Albuquerque**

## **Job Notes**

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

## **Authorization**

Generated 6/27/2025 12:34:04 PM

Authorized for release by Cheyenne Cason, Project Manager cheyenne.cason@et.eurofinsus.com (505)338-8812

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Client: Vertex
Laboratory Job ID: 885-27455-1
Project/Site: B Lee State #006

# **Table of Contents**

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## **Definitions/Glossary**

Client: Vertex Job ID: 885-27455-1

Project/Site: B Lee State #006

**Glossary** 

DL

MDC

DL, RA, RE, IN

Abbreviation	These commonly used abbreviations may or may not be present in this report.
₩	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor

Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

Detection Limit (DoD/DOE)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

Minimum Detectable Concentration (Radiochemistry)

 NEG
 Negative / Absent

 POS
 Positive / Present

 PQL
 Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

## **Case Narrative**

Client: Vertex Job ID: 885-27455-1

Project: B Lee State #006

Job ID: 885-27455-1 Eurofins Albuquerque

#### Job Narrative 885-27455-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these
  situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise
  specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

#### Receipt

The samples were received on 6/25/2025 7:25 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.8°C.

#### Gasoline Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### **GC VOA**

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### **Diesel Range Organics**

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Client: Vertex Job ID: 885-27455-1

Project/Site: B Lee State #006

Client Sample ID: BS25-29 at 3.5ft

Date Collected: 06/23/25 09:00 Date Received: 06/25/25 07:25 Lab Sample ID: 885-27455-1

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		06/25/25 11:50	06/26/25 15:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		15 - 150			06/25/25 11:50	06/26/25 15:06	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)	)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		06/25/25 11:50	06/26/25 15:06	1
Ethylbenzene	ND		0.047	mg/Kg		06/25/25 11:50	06/26/25 15:06	1
Toluene	ND		0.047	mg/Kg		06/25/25 11:50	06/26/25 15:06	1
Xylenes, Total	ND		0.095	mg/Kg		06/25/25 11:50	06/26/25 15:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		15 - 150			06/25/25 11:50	06/26/25 15:06	1
Method: SW846 8015M/D - Diese	I Range Organ	ics (DRO) (	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	39		9.5	mg/Kg		06/25/25 14:55	06/25/25 22:09	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		06/25/25 14:55	06/25/25 22:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
			62 - 134			06/25/25 14:55	06/25/25 22:09	1
Di-n-octyl phthalate (Surr)	78							
		ohy						
Di-n-octyl phthalate (Surr)	Chromatograp	ohy Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client: Vertex Job ID: 885-27455-1

Project/Site: B Lee State #006

Client Sample ID: BS25-35 at 4ft

Date Collected: 06/23/25 09:30 Date Received: 06/25/25 07:25 Lab Sample ID: 885-27455-2

Matrix: Solid

Method: SW846 8015M/D - Gaso	line Range Org	anics (GRC	) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		06/25/25 11:50	06/26/25 15:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		15 - 150			06/25/25 11:50	06/26/25 15:28	1
Method: SW846 8021B - Volatile Analyte	•	Ounds (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		06/25/25 11:50	06/26/25 15:28	1
Ethylbenzene	ND		0.048	mg/Kg		06/25/25 11:50	06/26/25 15:28	1
Toluene	ND		0.048	mg/Kg		06/25/25 11:50	06/26/25 15:28	1
Xylenes, Total	ND		0.095	mg/Kg		06/25/25 11:50	06/26/25 15:28	1

%Recovery Qualifier Limits Prepared Analyzed Dil Fac Surrogate 15 - 150 06/25/25 11:50 06/26/25 15:28 4-Bromofluorobenzene (Surr) 91 Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL Unit D Prepared Dil Fac Analyzed ND 9.7 Diesel Range Organics [C10-C28] mg/Kg 06/25/25 14:55 06/25/25 22:21 Motor Oil Range Organics [C28-C40] ND 49 mg/Kg 06/25/25 14:55 06/25/25 22:21 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac Di-n-octyl phthalate (Surr) 92 62 - 134 06/25/25 14:55 06/25/25 22:21

Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	95	60	mg/Kg		06/26/25 09:13	06/26/25 12:38	20		

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Client: Vertex Job ID: 885-27455-1

Project/Site: B Lee State #006

Client Sample ID: BS25-36 at 3.5ft

Date Collected: 06/23/25 09:40 Date Received: 06/25/25 07:25

Chloride

Released to Imaging: 8/20/2025 11:23:00 AM

Lab Sample ID: 885-27455-3

06/26/25 09:13

06/26/25 13:19

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		06/25/25 11:50	06/26/25 15:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		15 - 150			06/25/25 11:50	06/26/25 15:49	1
Method: SW846 8021B - Volatile (	Organic Comp	ounds (GC)	)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/25/25 11:50	06/26/25 15:49	1
Ethylbenzene	ND		0.049	mg/Kg		06/25/25 11:50	06/26/25 15:49	1
Toluene	ND		0.049	mg/Kg		06/25/25 11:50	06/26/25 15:49	1
Xylenes, Total	ND		0.098	mg/Kg		06/25/25 11:50	06/26/25 15:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		15 - 150			06/25/25 11:50	06/26/25 15:49	1
Method: SW846 8015M/D - Diese	Range Organ	ics (DRO) (	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	30		9.5	mg/Kg		06/25/25 14:55	06/25/25 22:34	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		06/25/25 14:55	06/25/25 22:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	91		62 - 134			06/25/25 14:55	06/25/25 22:34	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy						

60

mg/Kg

200

Prep Batch: 28980

Client: Vertex Job ID: 885-27455-1

Project/Site: B Lee State #006

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-28980/1-A Client Sample ID: Method Blank Prep Type: Total/NA

**Matrix: Solid** Analysis Batch: 29066

MB MB Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Gasoline Range Organics [C6 - C10] ND 5.0 mg/Kg 06/25/25 11:50 06/26/25 11:50

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 97 15 - 150 06/25/25 11:50 06/26/25 11:50

Lab Sample ID: LCS 885-28980/2-A Client Sample ID: Lab Control Sample Prep Type: Total/NA

**Matrix: Solid** 

Analysis Batch: 29066

Prep Batch: 28980 Spike LCS LCS %Rec

Analyte Added Result Qualifier Unit D %Rec Limits 25.0 32.5 130 Gasoline Range Organics [C6 mg/Kg 70 - 130

C10]

LCS LCS

Surrogate %Recovery Qualifier Limits 15 - 150 4-Bromofluorobenzene (Surr) 220

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-28980/1-A Client Sample ID: Method Blank Prep Type: Total/NA

**Matrix: Solid** 

Analysis Batch: 29067

MB MB

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac ND 0.025 06/25/25 11:50 06/26/25 11:50 Benzene mg/Kg Ethylbenzene ND 0.050 mg/Kg 06/25/25 11:50 06/26/25 11:50 Toluene NΠ 0.050 06/25/25 11:50 06/26/25 11:50 mg/Kg Xylenes, Total ND 0.10 mg/Kg 06/25/25 11:50 06/26/25 11:50

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed 15 - 150 06/25/25 11:50 06/26/25 11:50 4-Bromofluorobenzene (Surr) 91

Lab Sample ID: LCS 885-28980/3-A

**Matrix: Solid** 

Analysis Batch: 29067

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 28980

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	1.00	0.920		mg/Kg		92	70 - 130	
Ethylbenzene	1.00	0.948		mg/Kg		95	70 - 130	
m,p-Xylene	2.00	1.91		mg/Kg		96	70 - 130	
o-Xylene	1.00	0.954		mg/Kg		95	70 - 130	
Toluene	1.00	0.918		mg/Kg		92	70 - 130	
Xylenes, Total	3.00	2.87		mg/Kg		96	70 - 130	

LCS LCS

%Recovery Qualifier Limits Surrogate 15 - 150 4-Bromofluorobenzene (Surr) 92

Eurofins Albuquerque

Dil Fac

Prep Batch: 28980

Prep Type: Total/NA

Prep Type: Total/NA

Client Sample ID: Lab Control Sample

Prep Batch: 29010

Client: Vertex Job ID: 885-27455-1

Project/Site: B Lee State #006

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-29010/1-A Client Sample ID: Method Blank **Matrix: Solid** 

Analysis Batch: 28954

MB MB Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Diesel Range Organics [C10-C28] ND 10 mg/Kg 06/25/25 14:55 06/25/25 20:55 Motor Oil Range Organics [C28-C40] ND 50 mg/Kg 06/25/25 14:55 06/25/25 20:55

MB MB

Qualifier Limits Prepared Dil Fac Surrogate %Recovery Analyzed Di-n-octyl phthalate (Surr) 91 62 - 134 06/25/25 14:55 06/25/25 20:55

Lab Sample ID: LCS 885-29010/2-A

**Matrix: Solid** 

Analysis Batch: 28954

Prep Batch: 29010 Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits **Diesel Range Organics** 50.0 31.7 63 51 - 148 mg/Kg

[C10-C28]

LCS LCS

Surrogate %Recovery Qualifier Limits Di-n-octyl phthalate (Surr) 84 62 - 134

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-29059/1-A Client Sample ID: Method Blank

**Matrix: Solid** 

**Analysis Batch: 29071** 

мв мв

Analyte Result Qualifier RL Unit D Dil Fac Prepared Analyzed Chloride ND 1.5 mg/Kg 06/26/25 09:13 06/26/25 10:35

Lab Sample ID: LCS 885-29059/2-A

**Matrix: Solid** 

Analysis Batch: 29071

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit D %Rec Limits Chloride 15.0 14.4 96 90 - 110 mg/Kg

Eurofins Albuquerque

Prep Type: Total/NA Prep Batch: 29059

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 29059

## **QC Association Summary**

Client: Vertex Job ID: 885-27455-1

Project/Site: B Lee State #006

**GC VOA** 

Prep Batch: 28980

Lab Sample ID 885-27455-1 885-27455-2 885-27455-3	Client Sample ID  BS25-29 at 3.5ft  BS25-35 at 4ft  BS25-36 at 3.5ft	Prep Type Total/NA Total/NA Total/NA	Matrix Solid Solid Solid	Method 5030C 5030C 5030C	Prep Batc
MB 885-28980/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-28980/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-28980/3-A	Lab Control Sample	Total/NA	Solid	5030C	

## Analysis Batch: 29066

Lab Sample ID 885-27455-1	Client Sample ID BS25-29 at 3.5ft	Prep Type Total/NA	Matrix Solid	Method 8015M/D	Prep Batch 28980
885-27455-2	BS25-35 at 4ft	Total/NA	Solid	8015M/D	28980
885-27455-3	BS25-36 at 3.5ft	Total/NA	Solid	8015M/D	28980
MB 885-28980/1-A	Method Blank	Total/NA	Solid	8015M/D	28980
LCS 885-28980/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	28980

## Analysis Batch: 29067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27455-1	BS25-29 at 3.5ft	Total/NA	Solid	8021B	28980
885-27455-2	BS25-35 at 4ft	Total/NA	Solid	8021B	28980
885-27455-3	BS25-36 at 3.5ft	Total/NA	Solid	8021B	28980
MB 885-28980/1-A	Method Blank	Total/NA	Solid	8021B	28980
LCS 885-28980/3-A	Lab Control Sample	Total/NA	Solid	8021B	28980

## **GC Semi VOA**

## Analysis Batch: 28954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27455-1	BS25-29 at 3.5ft	Total/NA	Solid	8015M/D	29010
885-27455-2	BS25-35 at 4ft	Total/NA	Solid	8015M/D	29010
885-27455-3	BS25-36 at 3.5ft	Total/NA	Solid	8015M/D	29010
MB 885-29010/1-A	Method Blank	Total/NA	Solid	8015M/D	29010
LCS 885-29010/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	29010

## Prep Batch: 29010

Lab Sample ID 885-27455-1	Client Sample ID BS25-29 at 3.5ft	Prep Type Total/NA	Matrix Solid	Method SHAKE	Prep Batch
885-27455-2	BS25-35 at 4ft	Total/NA	Solid	SHAKE	
885-27455-3	BS25-36 at 3.5ft	Total/NA	Solid	SHAKE	
MB 885-29010/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-29010/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

## **HPLC/IC**

## Prep Batch: 29059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27455-1	BS25-29 at 3.5ft	Total/NA	Solid	300_Prep	
885-27455-2	BS25-35 at 4ft	Total/NA	Solid	300_Prep	
885-27455-3	BS25-36 at 3.5ft	Total/NA	Solid	300_Prep	
MB 885-29059/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-29059/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

## **QC Association Summary**

Client: Vertex Job ID: 885-27455-1

Project/Site: B Lee State #006

## HPLC/IC

Analysis Batch: 29071

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27455-1	BS25-29 at 3.5ft	Total/NA	Solid	300.0	29059
885-27455-2	BS25-35 at 4ft	Total/NA	Solid	300.0	29059
885-27455-3	BS25-36 at 3.5ft	Total/NA	Solid	300.0	29059
MB 885-29059/1-A	Method Blank	Total/NA	Solid	300.0	29059
LCS 885-29059/2-A	Lab Control Sample	Total/NA	Solid	300.0	29059

Client: Vertex

Client Sample ID: BS25-29 at 3.5ft

Date Collected: 06/23/25 09:00 Date Received: 06/25/25 07:25

Lab Sample ID: 885-27455-1

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			28980	AT	EET ALB	06/25/25 11:50
Total/NA	Analysis	8015M/D		1	29066	AT	EET ALB	06/26/25 15:06
Total/NA	Prep	5030C			28980	AT	EET ALB	06/25/25 11:50
Total/NA	Analysis	8021B		1	29067	AT	EET ALB	06/26/25 15:06
Total/NA	Prep	SHAKE			29010	EM	EET ALB	06/25/25 14:55
Total/NA	Analysis	8015M/D		1	28954	EM	EET ALB	06/25/25 22:09
Total/NA	Prep	300_Prep			29059	RC	EET ALB	06/26/25 09:13
Total/NA	Analysis	300.0		20	29071	RC	EET ALB	06/26/25 12:25

Client Sample ID: BS25-35 at 4ft

Date Collected: 06/23/25 09:30

Date Received: 06/25/25 07:25

Lab Sample ID: 885-27455-2

**Matrix: Solid** 

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Гуре Method Run Factor		Number	Analyst	Lab	or Analyzed	
Total/NA	Prep	5030C			28980	AT	EET ALB	06/25/25 11:50
Total/NA	Analysis	8015M/D		1	29066	AT	EET ALB	06/26/25 15:28
Total/NA	Prep	5030C			28980	AT	EET ALB	06/25/25 11:50
Total/NA	Analysis	8021B		1	29067	AT	EET ALB	06/26/25 15:28
Total/NA	Prep	SHAKE			29010	EM	EET ALB	06/25/25 14:55
Total/NA	Analysis	8015M/D		1	28954	EM	EET ALB	06/25/25 22:21
Total/NA	Prep	300_Prep			29059	RC	EET ALB	06/26/25 09:13
Total/NA	Analysis	300.0		20	29071	RC	EET ALB	06/26/25 12:38

Client Sample ID: BS25-36 at 3.5ft

Date Collected: 06/23/25 09:40

Date Received: 06/25/25 07:25

Lab Sample ID: 885-27455-3

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type Method Run Factor		Factor	Number	Analyst	Lab	or Analyzed	
Total/NA	Prep	5030C			28980	AT	EET ALB	06/25/25 11:50
Total/NA	Analysis	8015M/D		1	29066	AT	EET ALB	06/26/25 15:49
Total/NA	Prep	5030C			28980	AT	EET ALB	06/25/25 11:50
Total/NA	Analysis	8021B		1	29067	AT	EET ALB	06/26/25 15:49
Total/NA	Prep	SHAKE			29010	EM	EET ALB	06/25/25 14:55
Total/NA	Analysis	8015M/D		1	28954	EM	EET ALB	06/25/25 22:34
Total/NA	Prep	300_Prep			29059	RC	EET ALB	06/26/25 09:13
Total/NA	Analysis	300.0		20	29071	RC	EET ALB	06/26/25 13:19

#### Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

**Matrix: Solid** 

## **Accreditation/Certification Summary**

Client: Vertex Job ID: 885-27455-1

Project/Site: B Lee State #006

## **Laboratory: Eurofins Albuquerque**

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Progr	am	Identification Number	Expiration Date 02-27-26						
New Mexico	State		NM9425, NM0901							
The following analytes a for which the agency do		ut the laboratory is not certif	ied by the governing authority. This lis	t may include analytes						
Analysis Method	Prep Method	Matrix	Analyte							
300.0	300_Prep	Solid	Chloride							
8015M/D	5030C	Solid	Gasoline Range Organics	[C6 - C10]						
8015M/D	SHAKE	Solid	Diesel Range Organics [C	10-C28]						
8015M/D	SHAKE	Solid	Motor Oil Range Organics	[C28-C40]						
8021B	5030C	Solid	Benzene							
8021B	5030C	Solid	Ethylbenzene							
8021B	5030C	Solid	Toluene							
8021B	5030C	Xylenes, Total								
Dregon	NELA	Р	NM100001	02-26-26						

Eurofins Albuquerque

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Chain-of-Custody Record		Turn-Around	Time: 48	he								=	MX	TE		NIRA	(EN	<b>.</b>			
Client:	Verte	(bill to	Y, Matt Buckles		Rush (			HALL ENVIRONMENTAL ANALYSIS LABOR HAYE													2
	7-1-107	che. 9	Y THE BUCKTES	Project Name:				www.hallenvironmental.com													
Mailing	Address	entinent (2 P)	3101 Boyd Dr	BleeS	tate #006				490	)1 H									-		<b>24</b>
			Carlsbad, New Mexico	Project #:				4901 Hawkins NE - Albuquerque, NM 871 Tel. 505-345-3975 Fax 505-345-4107										, 000			
Phone	#:		575.725.5001	25A-01934				TO S						78							
email o	r Fax#:			Project Mana	ager:									)4			£				
QA/QC □ Star	Package: dard		□ Level 4 (Full Validation)	Sally Cartta SCarttar@ve	r ertexresource.	com		TMB's (8021)	)/MRC	PCB's		8270SIMS		PO <sub>4</sub> , SO <sub>4</sub>			t/Absen				
Accred  NEL  EDD		□ Az Co	ompliance	Sampler: On Ice: # of Coolers: Cooler Temp		□ No	Moto	MTBE /	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270	8 Metals	Br, NO <sub>3</sub> , NO <sub>2</sub> ,	(VOA)	(Semi-VOA)	Coliform (Present/Absent)				
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL N	0.		TPH:8(	8081 F	EDB (N	PAHS	RCRA		8260 (	8270 (	Total C				
6.23.25	9:00	Soil	BS25-29 at 3.5ft	1, 4oz jar	ICE			х	х					Х							
6.23.25	9:30	Soil	BS25-35 at 4ft	1, 4oz jar	ICE			Х	х					Х							
6.23.25	9:40	Soil	BS25-36 at 3.5ft	1, 4oz jar	ICE			Х	х					х							
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SIMINO.	1910	1 agus	mms.	1	louve	6/25/25 7	175														

### **Login Sample Receipt Checklist**

Client: Vertex Job Number: 885-27455-1

Login Number: 27455 List Source: Eurofins Albuquerque

List Number: 1

Creator: Casarrubias, Tracy

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	True	

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**Environment Testing** 

# **ANALYTICAL REPORT**

# PREPARED FOR

Attn: Ms. Sally Carttar Vertex 3101 Boyd Dr Carlsbad, New Mexico 88220

Generated 6/27/2025 12:34:29 PM

# **JOB DESCRIPTION**

B Lee State #006

# **JOB NUMBER**

885-27456-1

Eurofins Albuquerque 4901 Hawkins NE Albuquerque NM 87109

# **Eurofins Albuquerque**

## **Job Notes**

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

# **Authorization**

Generated 6/27/2025 12:34:29 PM

Authorized for release by Cheyenne Cason, Project Manager cheyenne.cason@et.eurofinsus.com (505)338-8812 3

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Client: Vertex

Laboratory Job ID: 885-27456-1

Project/Site: B Lee State #006

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### **Definitions/Glossary**

Client: Vertex Job ID: 885-27456-1

Project/Site: B Lee State #006

**Glossary** 

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit

METHOD Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

 NEG
 Negative / Absent

 POS
 Positive / Present

 PQL
 Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

#### **Case Narrative**

Client: Vertex Job ID: 885-27456-1

Project: B Lee State #006

Job ID: 885-27456-1 Eurofins Albuquerque

# Job Narrative 885-27456-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these
  situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise
  specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

#### Receipt

The samples were received on 6/25/2025 7:25 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.8°C.

#### Gasoline Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### **Diesel Range Organics**

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

**Eurofins Albuquerque** 

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Client: Vertex Job ID: 885-27456-1

Project/Site: B Lee State #006

Client Sample ID: BS25-04 at 3.5ft

Date Collected: 06/19/25 12:00 Date Received: 06/25/25 07:25 Lab Sample ID: 885-27456-1

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		06/25/25 11:50	06/26/25 16:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		15 - 150			06/25/25 11:50	06/26/25 16:11	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)	) 					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/25/25 11:50	06/26/25 16:11	1
Ethylbenzene	ND		0.049	mg/Kg		06/25/25 11:50	06/26/25 16:11	1
Toluene	ND		0.049	mg/Kg		06/25/25 11:50	06/26/25 16:11	1
Xylenes, Total	ND		0.099	mg/Kg		06/25/25 11:50	06/26/25 16:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		15 - 150			06/25/25 11:50	06/26/25 16:11	1
- Method: SW846 8015M/D - Diese	I Range Organ	ics (DRO) (	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8	mg/Kg		06/25/25 14:55	06/25/25 22:46	1
M 1 0'I D 0 1 1000 0401	ND		49	mg/Kg		06/25/25 14:55	06/25/25 22:46	1
Motor Oil Range Organics [C28-C40]								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
		Qualifier	Limits 62 - 134			<b>Prepared</b> 06/25/25 14:55	Analyzed 06/25/25 22:46	Dil Fac
Surrogate								Dil Fac
Surrogate  Di-n-octyl phthalate (Surr)	%Recovery 94  Chromatograp			Unit	D			Dil Fac

Client: Vertex Job ID: 885-27456-1

Project/Site: B Lee State #006

Client Sample ID: WS25-07 at 0-3ft

Date Collected: 06/19/25 12:30 Date Received: 06/25/25 07:25 Lab Sample ID: 885-27456-2

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		06/25/25 11:50	06/26/25 16:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		15 - 150			06/25/25 11:50	06/26/25 16:33	

-	•					00, 20, 20 0	00/20/20 10/00	
Method: SW846 8021B - Volati	le Organic Comp	ounds (GC)	)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	MD		0.024	mg/Kg		06/25/25 11:50	06/26/25 16:33	1
Ethylbenzene	ND		0.048	mg/Kg		06/25/25 11:50	06/26/25 16:33	1
Toluene	ND		0.048	mg/Kg		06/25/25 11:50	06/26/25 16:33	1
Xylenes, Total	ND		0.095	mg/Kg		06/25/25 11:50	06/26/25 16:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		15 - 150			06/25/25 11:50	06/26/25 16:33	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4	mg/Kg		06/25/25 14:55	06/25/25 23:11	
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		06/25/25 14:55	06/25/25 23:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
Di-n-octyl phthalate (Surr)	93		62 - 134			06/25/25 14:55	06/25/25 23:11	1

Method: EPA 300.0 - Anions, ion C	nromatograpny						
Analyte	Result Qualif	ier RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	67	60	mg/Kg		06/26/25 09:13	06/26/25 13:47	20

Prep Batch: 28980

Client: Vertex Job ID: 885-27456-1

Project/Site: B Lee State #006

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-28980/1-A Client Sample ID: Method Blank Prep Type: Total/NA

**Matrix: Solid** Analysis Batch: 29066

MB MB Analyte Result Qualifier RLUnit D Prepared Analyzed Dil Fac Gasoline Range Organics [C6 - C10] ND 5.0 mg/Kg 06/25/25 11:50 06/26/25 11:50

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 97 15 - 150 06/25/25 11:50 06/26/25 11:50

Lab Sample ID: LCS 885-28980/2-A Client Sample ID: Lab Control Sample Prep Type: Total/NA

**Matrix: Solid** 

Analysis Batch: 29066

Prep Batch: 28980 Spike LCS LCS %Rec

Analyte Added Result Qualifier Unit D %Rec Limits 25.0 32.5 mg/Kg 130 70 - 130Gasoline Range Organics [C6 -

C10]

LCS LCS

MB MB

%Recovery Qualifier Limits Surrogate 15 - 150 4-Bromofluorobenzene (Surr) 220

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-28980/1-A Client Sample ID: Method Blank Prep Type: Total/NA

**Matrix: Solid** 

Analysis Batch: 29067 Prep Batch: 28980 MB MB Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac

ND 0.025 06/25/25 11:50 06/26/25 11:50 Benzene mg/Kg Ethylbenzene ND 0.050 mg/Kg 06/25/25 11:50 06/26/25 11:50 Toluene NΠ 0.050 06/25/25 11:50 06/26/25 11:50 mg/Kg Xylenes, Total ND 0.10 mg/Kg 06/25/25 11:50 06/26/25 11:50

Surrogate %Recovery Qualifier Limits Dil Fac Prepared Analyzed 06/25/25 11:50 06/26/25 11:50 4-Bromofluorobenzene (Surr) 15 - 150 91

Lab Sample ID: LCS 885-28980/3-A

**Matrix: Solid** 

**Analysis Batch: 29067** 

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 28980

%Rec

Spike LCS LCS Result Qualifier Analyte Added Unit %Rec Limits 1.00 0.920 Benzene mg/Kg 92 70 - 130 Ethylbenzene 1.00 0.948 mg/Kg 95 70 - 130 96 2.00 1.91 70 - 130 m,p-Xylene mg/Kg 0.954 o-Xylene 1.00 mg/Kg 95 70 - 130 1.00 0.918 92 70 - 130 Toluene mg/Kg Xylenes, Total 3.00 2.87 mg/Kg 96 70 - 130

LCS LCS

%Recovery Qualifier Limits Surrogate 15 - 150 4-Bromofluorobenzene (Surr) 92

Client: Vertex Job ID: 885-27456-1

Project/Site: B Lee State #006

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-29010/1-A **Matrix: Solid** 

Analysis Batch: 28954

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 29010

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Diesel Range Organics [C10-C28] ND 10 mg/Kg 06/25/25 14:55 06/25/25 20:55 Motor Oil Range Organics [C28-C40] ND 50 mg/Kg 06/25/25 14:55 06/25/25 20:55

MB MB

MB MB

Qualifier Limits Prepared Dil Fac Surrogate %Recovery Analyzed Di-n-octyl phthalate (Surr) 91 62 - 134 06/25/25 14:55 06/25/25 20:55

LCS LCS

Lab Sample ID: LCS 885-29010/2-A

**Matrix: Solid** 

Analysis Batch: 28954

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 29010

%Rec

Analyte Added Result Qualifier Unit D %Rec Limits **Diesel Range Organics** 50.0 31.7 63 51 - 148 mg/Kg

Spike

[C10-C28]

LCS LCS

Surrogate %Recovery Qualifier Limits Di-n-octyl phthalate (Surr) 84 62 - 134

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-29059/1-A Client Sample ID: Method Blank

**Matrix: Solid** 

**Analysis Batch: 29071** 

Prep Type: Total/NA

Prep Batch: 29059

мв мв

Analyte Result Qualifier RL Unit D Dil Fac Prepared Analyzed Chloride ND 1.5 mg/Kg 06/26/25 09:13 06/26/25 10:35

Lab Sample ID: LCS 885-29059/2-A

**Matrix: Solid** 

Analysis Batch: 29071

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 29059

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit D %Rec Limits Chloride 15.0 14.4 96 90 - 110 mg/Kg

# **QC Association Summary**

Client: Vertex Job ID: 885-27456-1

Project/Site: B Lee State #006

**GC VOA** 

Prep Batch: 28980

<b>Lab Sample ID</b> 885-27456-1	Client Sample ID BS25-04 at 3.5ft	Prep Type Total/NA	Matrix Solid	Method 5030C	Prep Batch
885-27456-2	WS25-07 at 0-3ft	Total/NA	Solid	5030C	
MB 885-28980/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-28980/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-28980/3-A	Lab Control Sample	Total/NA	Solid	5030C	

#### Analysis Batch: 29066

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27456-1	BS25-04 at 3.5ft	Total/NA	Solid	8015M/D	28980
885-27456-2	WS25-07 at 0-3ft	Total/NA	Solid	8015M/D	28980
MB 885-28980/1-A	Method Blank	Total/NA	Solid	8015M/D	28980
LCS 885-28980/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	28980

#### Analysis Batch: 29067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27456-1	BS25-04 at 3.5ft	Total/NA	Solid	8021B	28980
885-27456-2	WS25-07 at 0-3ft	Total/NA	Solid	8021B	28980
MB 885-28980/1-A	Method Blank	Total/NA	Solid	8021B	28980
LCS 885-28980/3-A	Lab Control Sample	Total/NA	Solid	8021B	28980

#### **GC Semi VOA**

#### Analysis Batch: 28954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27456-1	BS25-04 at 3.5ft	Total/NA	Solid	8015M/D	29010
885-27456-2	WS25-07 at 0-3ft	Total/NA	Solid	8015M/D	29010
MB 885-29010/1-A	Method Blank	Total/NA	Solid	8015M/D	29010
LCS 885-29010/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	29010

#### Prep Batch: 29010

Lab Sample ID 885-27456-1	Client Sample ID BS25-04 at 3.5ft	Prep Type Total/NA	Matrix Solid	Method SHAKE	Prep Batch
885-27456-2	WS25-07 at 0-3ft	Total/NA	Solid	SHAKE	
MB 885-29010/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-29010/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

#### HPLC/IC

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
885-27456-1	BS25-04 at 3.5ft	Total/NA	Solid	300_Prep
885-27456-2	WS25-07 at 0-3ft	Total/NA	Solid	300_Prep
MB 885-29059/1-A	Method Blank	Total/NA	Solid	300_Prep
LCS 885-29059/2-A	Lab Control Sample	Total/NA	Solid	300_Prep

#### Analysis Batch: 29071

Released to Imaging: 8/20/2025 11:23:00 AM

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27456-1	BS25-04 at 3.5ft	Total/NA	Solid	300.0	29059
885-27456-2	WS25-07 at 0-3ft	Total/NA	Solid	300.0	29059
MB 885-29059/1-A	Method Blank	Total/NA	Solid	300.0	29059
LCS 885-29059/2-A	Lab Control Sample	Total/NA	Solid	300.0	29059

Eurofins Albuquerque

# Prep Batch: 29059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Ba
885-27456-1	BS25-04 at 3.5ft	Total/NA	Solid	300_Prep	
885-27456-2	WS25-07 at 0-3ft	Total/NA	Solid	300_Prep	
MB 885-29059/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-29059/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Job ID: 885-27456-1

Project/Site: B Lee State #006

Client: Vertex

Client Sample ID: BS25-04 at 3.5ft

Date Collected: 06/19/25 12:00 Date Received: 06/25/25 07:25 Lab Sample ID: 885-27456-1

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			28980	AT	EET ALB	06/25/25 11:50
Total/NA	Analysis	8015M/D		1	29066	AT	EET ALB	06/26/25 16:11
Total/NA	Prep	5030C			28980	AT	EET ALB	06/25/25 11:50
Total/NA	Analysis	8021B		1	29067	AT	EET ALB	06/26/25 16:11
Total/NA	Prep	SHAKE			29010	EM	EET ALB	06/25/25 14:55
Total/NA	Analysis	8015M/D		1	28954	EM	EET ALB	06/25/25 22:46
Total/NA	Prep	300_Prep			29059	RC	EET ALB	06/26/25 09:13
Total/NA	Analysis	300.0		20	29071	RC	EET ALB	06/26/25 13:33

Client Sample ID: WS25-07 at 0-3ft

Date Collected: 06/19/25 12:30

Date Received: 06/25/25 07:25

Lab Sample ID: 885-27456-2

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			28980	AT	EET ALB	06/25/25 11:50
Total/NA	Analysis	8015M/D		1	29066	AT	EET ALB	06/26/25 16:33
Total/NA	Prep	5030C			28980	AT	EET ALB	06/25/25 11:50
Total/NA	Analysis	8021B		1	29067	AT	EET ALB	06/26/25 16:33
Total/NA	Prep	SHAKE			29010	EM	EET ALB	06/25/25 14:55
Total/NA	Analysis	8015M/D		1	28954	EM	EET ALB	06/25/25 23:11
Total/NA	Prep	300_Prep			29059	RC	EET ALB	06/26/25 09:13
Total/NA	Analysis	300.0		20	29071	RC	EET ALB	06/26/25 13:47

#### Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

# **Accreditation/Certification Summary**

Client: Vertex Job ID: 885-27456-1

Project/Site: B Lee State #006

#### **Laboratory: Eurofins Albuquerque**

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program Identification Number		Expiration Date		
New Mexico	State		NM9425, NM0901 02-27-26		
• ,	are included in this report, boes not offer certification.	ut the laboratory is not certif	ied by the governing authority. This lis	t may include analytes	
Analysis Method	Prep Method	Matrix	Analyte		
300.0	300_Prep	Solid	Chloride		
8015M/D	5030C	Solid	Gasoline Range Organics [C6 - C10]		
8015M/D	SHAKE	Solid	Diesel Range Organics [C	10-C28]	
8015M/D	SHAKE	Solid	Motor Oil Range Organics	[C28-C40]	
8021B	5030C	Solid	Benzene		
8021B	5030C	Solid	Ethylbenzene		
8021B	5030C	Solid	Toluene		
8021B	5030C	Solid	Xylenes, Total		
Oregon	NELA	<b>\</b> P	NM100001	02-26-26	

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Turn-Around Time: 1

**Chain-of-Custody Record** 

### **Login Sample Receipt Checklist**

Client: Vertex Job Number: 885-27456-1

Login Number: 27456 List Source: Eurofins Albuquerque

List Number: 1

Creator: Casarrubias, Tracy

, •		
Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	True	

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**Environment Testing** 

# **ANALYTICAL REPORT**

# PREPARED FOR

Attn: Ms. Sally Carttar Vertex 3101 Boyd Dr Carlsbad, New Mexico 88220

Generated 7/9/2025 3:24:10 PM

# **JOB DESCRIPTION**

B Lee State #006

# **JOB NUMBER**

885-28074-1

Eurofins Albuquerque 4901 Hawkins NE Albuquerque NM 87109

# **Eurofins Albuquerque**

## **Job Notes**

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

# **Authorization**

Generated 7/9/2025 3:24:10 PM

Authorized for release by Cheyenne Cason, Project Manager cheyenne.cason@et.eurofinsus.com (505)338-8812 1

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Client: Vertex
Laboratory Job ID: 885-28074-1
Project/Site: B Lee State #006

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### **Definitions/Glossary**

Client: Vertex Job ID: 885-28074-1

Project/Site: B Lee State #006

**Qualifiers** 

**GC Semi VOA** Qualifier **Qualifier Description** 

MS and/or MSD recovery exceeds control limits.

**Glossary** 

Abbreviation These commonly used abbreviations may or may not be present in this report. Listed under the "D" column to designate that the result is reported on a dry weight basis

Percent Recovery %R CFL Contains Free Liquid CFU Colony Forming Unit **CNF** Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor** 

Detection Limit (DoD/DOE) DL

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

Estimated Detection Limit (Dioxin) EDL LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level" MCL MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit ML Minimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

**PRES** Presumptive QC **Quality Control** 

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) **TEQ** Toxicity Equivalent Quotient (Dioxin)

**TNTC** Too Numerous To Count

#### **Case Narrative**

Client: Vertex Job ID: 885-28074-1

Project: B Lee State #006

**Eurofins Albuquerque** Job ID: 885-28074-1

#### Job Narrative 885-28074-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

#### Receipt

The samples were received on 7/3/2025 7:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.5°C.

#### **Gasoline Range Organics**

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### **Diesel Range Organics**

Method 8015D DRO: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 885-29622 and analytical batch 885-29570 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

# **Client Sample Results**

Client: Vertex Job ID: 885-28074-1

Project/Site: B Lee State #006

Client Sample ID: BS25-15 3.5'

Lab Sample ID: 885-28074-1

Date Collected: 07/02/25 10:30 Matrix: Solid Date Received: 07/03/25 07:45

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		3.3	mg/Kg		07/07/25 09:22	07/07/25 12:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		15 - 150			07/07/25 09:22	07/07/25 12:23	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)	)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.016	mg/Kg		07/07/25 09:22	07/07/25 12:23	1
Ethylbenzene	ND		0.033	mg/Kg		07/07/25 09:22	07/07/25 12:23	1
Toluene	ND		0.033	mg/Kg		07/07/25 09:22	07/07/25 12:23	1
Xylenes, Total	ND		0.065	mg/Kg		07/07/25 09:22	07/07/25 12:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		15 - 150			07/07/25 09:22	07/07/25 12:23	1
Method: SW846 8015M/D - Diese	l Range Organ	ics (DRO) (	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2	mg/Kg		07/07/25 14:52	07/07/25 16:02	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		07/07/25 14:52	07/07/25 16:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	88		62 - 134			07/07/25 14:52	07/07/25 16:02	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	-	60	mg/Kg		07/07/25 10:24	07/07/25 11:57	20

## **Client Sample Results**

Client: Vertex Job ID: 885-28074-1

Project/Site: B Lee State #006

Client Sample ID: WS25-08 3-5'

Lab Sample ID: 885-28074-2 Date Collected: 07/02/25 09:30

Matrix: Solid

Date Received: 07/03/25 07:45

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.1	mg/Kg		07/07/25 09:22	07/07/25 12:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		15 - 150			07/07/25 09:22	07/07/25 12:45	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.021	mg/Kg		07/07/25 09:22	07/07/25 12:45	1
Ethylbenzene	ND		0.041	mg/Kg		07/07/25 09:22	07/07/25 12:45	1
Toluene	ND		0.041	mg/Kg		07/07/25 09:22	07/07/25 12:45	1
Xylenes, Total	ND		0.082	mg/Kg		07/07/25 09:22	07/07/25 12:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
	89		 15 <sub>-</sub> 150			07/07/25 09:22	07/07/25 12:45	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND	F1	9.9	mg/Kg		07/07/25 14:52	07/07/25 16:52	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		07/07/25 14:52	07/07/25 16:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	82		62 - 134			07/07/25 14:52	07/07/25 16:52	1

Method. LFA 300.0 - Amons, for Ci	inomatography						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	59	mg/Kg		07/07/25 10:24	07/07/25 12:07	20

## **Client Sample Results**

Client: Vertex Job ID: 885-28074-1

Project/Site: B Lee State #006

Client Sample ID: WS25-09 0-4'

Lab Sample ID: 885-28074-3 Date Collected: 07/02/25 09:55

Matrix: Solid

07/07/25 10:24

07/07/25 12:17

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Date Received: 07/03/25 07:45

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		3.3	mg/Kg		07/07/25 09:22	07/07/25 13:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		15 - 150			07/07/25 09:22	07/07/25 13:07	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)	)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.017	mg/Kg		07/07/25 09:22	07/07/25 13:07	1
Ethylbenzene	ND		0.033	mg/Kg		07/07/25 09:22	07/07/25 13:07	1
Toluene	ND		0.033	mg/Kg		07/07/25 09:22	07/07/25 13:07	1
Xylenes, Total	ND		0.066	mg/Kg		07/07/25 09:22	07/07/25 13:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		15 - 150			07/07/25 09:22	07/07/25 13:07	1
Method: SW846 8015M/D - Diese	Range Organ	ics (DRO) (	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		07/07/25 14:53	07/07/25 23:08	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		07/07/25 14:53	07/07/25 23:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	86		62 - 134			07/07/25 14:53	07/07/25 23:08	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy						
	• •	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

60

mg/Kg

ND

Prep Batch: 29595

Prep Batch: 29595

Client: Vertex Job ID: 885-28074-1

Project/Site: B Lee State #006

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-29595/1-A Client Sample ID: Method Blank Prep Type: Total/NA

**Matrix: Solid** Analysis Batch: 29608

		MR MR						
	Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Gasoline Range Organics [C6 - C10]	ND	5.0	mg/Kg		07/07/25 09:22	07/07/25 12:01	1
- 1								

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 07/07/25 09:22 4-Bromofluorobenzene (Surr) 104 15 - 150 07/07/25 12:01

Lab Sample ID: LCS 885-29595/2-A Client Sample ID: Lab Control Sample Prep Type: Total/NA

**Matrix: Solid** Analysis Batch: 29608

Spike LCS LCS

%Rec Analyte Added Result Qualifier Unit %Rec Limits 25.0 27.3 109 Gasoline Range Organics [C6 mg/Kg 70 - 130

C10]

LCS LCS

Surrogate %Recovery Qualifier Limits 208 15 - 150 4-Bromofluorobenzene (Surr)

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-29595/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 29609

Xylenes, Total

MB MB Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac ND 0.025 07/07/25 09:22 07/07/25 12:01 Benzene mg/Kg Ethylbenzene ND 0.050 mg/Kg 07/07/25 09:22 07/07/25 12:01 07/07/25 12:01 Toluene ND 0.050 07/07/25 09:22 mg/Kg

0.10

mg/Kg

ND MB MB

%Recovery Qualifier Limits Dil Fac Surrogate Prepared Analyzed 4-Bromofluorobenzene (Surr) 15 - 150 07/07/25 09:22 07/07/25 12:01 96

Lab Sample ID: LCS 885-29595/3-A

**Matrix: Solid** 

**Analysis Batch: 29609** 

Client Sample ID: Lab Control Sample

07/07/25 12:01

07/07/25 09:22

Prep Type: Total/NA

Prep Batch: 29595

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	1.00	0.978		mg/Kg		98	70 - 130	
Ethylbenzene	1.00	0.980		mg/Kg		98	70 - 130	
m,p-Xylene	2.00	1.97		mg/Kg		99	70 - 130	
o-Xylene	1.00	0.987		mg/Kg		99	70 - 130	
Toluene	1.00	0.951		mg/Kg		95	70 - 130	
Xylenes, Total	3.00	2.96		mg/Kg		99	70 - 130	

LCS LCS

Surrogate %Recovery Qualifier Limits 15 - 150 4-Bromofluorobenzene (Surr) 92

Eurofins Albuquerque

Prep Batch: 29595

Job ID: 885-28074-1 Client: Vertex

Project/Site: B Lee State #006

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-29622/1-A **Matrix: Solid** 

Lab Sample ID: LCS 885-29622/2-A

**Analysis Batch: 29570** 

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 29622

Analyte Result Qualifier RLUnit D Prepared Analyzed Dil Fac Diesel Range Organics [C10-C28] ND 10 mg/Kg 07/07/25 14:52 07/07/25 15:38 Motor Oil Range Organics [C28-C40] ND 50 mg/Kg 07/07/25 14:52 07/07/25 15:38

MB MB

LCS LCS

MB MB

Qualifier Limits Dil Fac Surrogate %Recovery Prepared Analyzed Di-n-octyl phthalate (Surr) 87 62 - 134 07/07/25 14:52 07/07/25 15:38

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 29622

**Matrix: Solid Analysis Batch: 29570** 

Spike LCS LCS Analyte Added Result Qualifier Unit D %Rec Limits 50.0 63.1 126 51 - 148 Diesel Range Organics mg/Kg

[C10-C28]

Surrogate %Recovery Qualifier Limits Di-n-octyl phthalate (Surr) 89 62 - 134

Lab Sample ID: 885-28074-2 MS Client Sample ID: WS25-08 3-5'

**Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 29570** Prep Batch: 29622

MS MS %Rec Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits F1 48.5 **Diesel Range Organics** ND 32.8 mg/Kg 68 44 - 136

[C10-C28]

MS MS %Recovery Qualifier Limits Surrogate Di-n-octyl phthalate (Surr) 62 - 134 91

Lab Sample ID: 885-28074-2 MSD Client Sample ID: WS25-08 3-5'

**Matrix: Solid** 

Analysis Batch: 29570

Prep Batch: 29622 RPD MSD MSD Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit **Diesel Range Organics** ND F1 49.6 42.5 44 - 136 mg/Kg

[C10-C28]

MSD MSD %Recovery Surrogate Qualifier Limits Di-n-octyl phthalate (Surr) 88 62 - 134

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-29584/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

**Analysis Batch: 29591** мв мв

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Chloride ND 1.5 mg/Kg 07/07/25 10:24 07/07/25 11:37

Eurofins Albuquerque

Prep Batch: 29584

Prep Type: Total/NA

## **QC Sample Results**

Client: Vertex Job ID: 885-28074-1

Project/Site: B Lee State #006

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 885-29584/2-A **Client Sample ID: Lab Control Sample** 

**Matrix: Solid** 

Analysis Batch: 29591

**Prep Type: Total/NA** Prep Batch: 29584

Spike LCS LCS Result Qualifier Added Analyte Unit %Rec Limits Chloride 15.0 14.6 mg/Kg 97 90 - 110

# **QC Association Summary**

Client: Vertex Job ID: 885-28074-1

Project/Site: B Lee State #006

**GC VOA** 

Prep Batch: 29595

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-28074-1	BS25-15 3.5'	Total/NA	Solid	5035	
885-28074-2	WS25-08 3-5'	Total/NA	Solid	5035	
885-28074-3	WS25-09 0-4'	Total/NA	Solid	5035	
MB 885-29595/1-A	Method Blank	Total/NA	Solid	5035	
LCS 885-29595/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCS 885-29595/3-A	Lab Control Sample	Total/NA	Solid	5035	

Analysis Batch: 29608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-28074-1	BS25-15 3.5'	Total/NA	Solid	8015M/D	29595
885-28074-2	WS25-08 3-5'	Total/NA	Solid	8015M/D	29595
885-28074-3	WS25-09 0-4'	Total/NA	Solid	8015M/D	29595
MB 885-29595/1-A	Method Blank	Total/NA	Solid	8015M/D	29595
LCS 885-29595/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	29595

Analysis Batch: 29609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-28074-1	BS25-15 3.5'	Total/NA	Solid	8021B	29595
885-28074-2	WS25-08 3-5'	Total/NA	Solid	8021B	29595
885-28074-3	WS25-09 0-4'	Total/NA	Solid	8021B	29595
MB 885-29595/1-A	Method Blank	Total/NA	Solid	8021B	29595
LCS 885-29595/3-A	Lab Control Sample	Total/NA	Solid	8021B	29595

**GC Semi VOA** 

Analysis Batch: 29570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-28074-1	BS25-15 3.5'	Total/NA	Solid	8015M/D	29622
885-28074-2	WS25-08 3-5'	Total/NA	Solid	8015M/D	29622
885-28074-3	WS25-09 0-4'	Total/NA	Solid	8015M/D	29622
MB 885-29622/1-A	Method Blank	Total/NA	Solid	8015M/D	29622
LCS 885-29622/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	29622
885-28074-2 MS	WS25-08 3-5'	Total/NA	Solid	8015M/D	29622
885-28074-2 MSD	WS25-08 3-5'	Total/NA	Solid	8015M/D	29622

Prep Batch: 29622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-28074-1	BS25-15 3.5'	Total/NA	Solid	SHAKE	
885-28074-2	WS25-08 3-5'	Total/NA	Solid	SHAKE	
885-28074-3	WS25-09 0-4'	Total/NA	Solid	SHAKE	
MB 885-29622/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-29622/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-28074-2 MS	WS25-08 3-5'	Total/NA	Solid	SHAKE	
885-28074-2 MSD	WS25-08 3-5'	Total/NA	Solid	SHAKE	

**HPLC/IC** 

Prep Batch: 29584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-28074-1	BS25-15 3.5'	Total/NA	Solid	300_Prep	
885-28074-2	WS25-08 3-5'	Total/NA	Solid	300_Prep	
885-28074-3	WS25-09 0-4'	Total/NA	Solid	300_Prep	

# **QC Association Summary**

Client: Vertex Job ID: 885-28074-1

Project/Site: B Lee State #006

## **HPLC/IC** (Continued)

#### Prep Batch: 29584 (Continued)

	Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
	MB 885-29584/1-A	Method Blank	Total/NA	Solid	300_Prep	
l	LCS 885-29584/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

#### Analysis Batch: 29591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-28074-1	BS25-15 3.5'	Total/NA	Solid	300.0	29584
885-28074-2	WS25-08 3-5'	Total/NA	Solid	300.0	29584
885-28074-3	WS25-09 0-4'	Total/NA	Solid	300.0	29584
MB 885-29584/1-A	Method Blank	Total/NA	Solid	300.0	29584
LCS 885-29584/2-A	Lab Control Sample	Total/NA	Solid	300.0	29584

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Client: Vertex

Client Sample ID: BS25-15 3.5'

Date Collected: 07/02/25 10:30 Date Received: 07/03/25 07:45 Lab Sample ID: 885-28074-1

**Matrix: Solid** 

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			29595	AT	EET ALB	07/07/25 09:22
Total/NA	Analysis	8015M/D		1	29608	AT	EET ALB	07/07/25 12:23
Total/NA	Prep	5035			29595	AT	EET ALB	07/07/25 09:22
Total/NA	Analysis	8021B		1	29609	AT	EET ALB	07/07/25 12:23
Total/NA	Prep	SHAKE			29622	EM	EET ALB	07/07/25 14:52
Total/NA	Analysis	8015M/D		1	29570	EM	EET ALB	07/07/25 16:02
Total/NA	Prep	300_Prep			29584	MA	EET ALB	07/07/25 10:24
Total/NA	Analysis	300.0		20	29591	MA	FFT ALB	07/07/25 11:57

Client Sample ID: WS25-08 3-5'

Date Collected: 07/02/25 09:30

Date Received: 07/03/25 07:45

Lab Sample ID: 885-28074-2

**Matrix: Solid** 

Dilution Batch Batch Batch Prepared or Analyzed **Prep Type** Type Method Run Factor Number Analyst Lab 5035 EET ALB 07/07/25 09:22 Total/NA Prep 29595 ΑT Total/NA 8015M/D 07/07/25 12:45 Analysis 1 29608 AT **EET ALB** Total/NA 5035 07/07/25 09:22 Prep 29595 AT **EET ALB** 29609 AT Total/NA Analysis 8021B 1 **EET ALB** 07/07/25 12:45 Total/NA SHAKE **EET ALB** 07/07/25 14:52 Prep 29622 EM Total/NA Analysis 8015M/D 1 29570 EM **EET ALB** 07/07/25 16:52 07/07/25 10:24 Total/NA Prep 300\_Prep MA **EET ALB** 29584 Total/NA Analysis 300.0 20 29591 MA **EET ALB** 07/07/25 12:07

Client Sample ID: WS25-09 0-4'

Date Collected: 07/02/25 09:55

Date Received: 07/03/25 07:45

Lab Sample ID: 885-28074-3

_	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			29595	AT	EET ALB	07/07/25 09:22
Total/NA	Analysis	8015M/D		1	29608	AT	EET ALB	07/07/25 13:07
Total/NA	Prep	5035			29595	AT	EET ALB	07/07/25 09:22
Total/NA	Analysis	8021B		1	29609	AT	EET ALB	07/07/25 13:07
Total/NA	Prep	SHAKE			29622	EM	EET ALB	07/07/25 14:53
Total/NA	Analysis	8015M/D		1	29570	EM	EET ALB	07/07/25 23:08
Total/NA	Prep	300_Prep			29584	MA	EET ALB	07/07/25 10:24
Total/NA	Analysis	300.0		20	29591	MA	EET ALB	07/07/25 12:17

#### **Laboratory References:**

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Matrix: Solid

# **Accreditation/Certification Summary**

Client: Vertex Job ID: 885-28074-1

Project/Site: B Lee State #006

#### **Laboratory: Eurofins Albuquerque**

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Prog	gram	Identification Number	<b>Expiration Date</b>
New Mexico	State	9	NM9425, NM0901	02-27-26
• ,	are included in this report, les not offer certification.	but the laboratory is not certif	ied by the governing authority. This lis	t may include analytes
Analysis Method	Prep Method	Matrix	Analyte	
300.0	300_Prep	Solid	Chloride	
8015M/D	5035	Solid	Gasoline Range Organics	[C6 - C10]
8015M/D	SHAKE	Solid	Diesel Range Organics [C	10-C28]
8015M/D	SHAKE	Solid	Motor Oil Range Organics	[C28-C40]
8021B	5035	Solid	Benzene	
8021B	5035	Solid	Ethylbenzene	
8021B	5035	Solid	Toluene	
8021B	5035	Solid	Xylenes, Total	
Dregon	NEL	AP	NM100001	02-26-26

Eurofins Albuquerque

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Chain-of-Custody Record  Client: Vertex (Rill to Mack Energy)  Matt Buckles  Mailing Address: 3101 Boy Divide  Carlshad NM  Phone #: 575-735-5001	Turn-Around Time:  Standard Rush 24 - hr  Project Name:  B Lee State # 000  Project #:  25A - 0M34	HALL ENVIRONME ANALYSIS LABOR  www.hallenvironmental.com  885-28074 Coc  4901 Hawkins NE - Albuquerque, NM 87109  Tel. 505-345-3975 Fax 505-345-4107  Analysis Request
Phone #: \$7\$-7\$\$-\$MI email or Fax#:  QA/QC Package:  Standard	Project Manager:  Sally Cartar Eventex resource com  Sampler: L. Pullman  On Ice: Pyes DNo  # of Coolers: 1  Cooler Tempolociuding CF): 23 + (0.25 2.5 7°C)	BE / TMB's (8021) GRO / DRO / MRO) ides/8082 PCB's id 504.1) 10 or 8270SIMS tals IO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> .VOA) m (Present/Absent)
Date Time Matrix Sample Name  7-2-25 10:30 S <sub>01</sub> 8525-15 3.5'  7-2-35 09:30 S <sub>01</sub> W525-08 3-5'  7-2-35 09:55 S <sub>01</sub> W525-09 0-4'	Container Type and # Type    Jay -1     Jay -2     Jay -3	X
Date Time Relinquished by  Date Time Relinquished by  Relinquished by:  If necessary, samples submitted to Hall Environmental may be sub-	1002 7/3/25 7:45	Remarks: Direct Bill to Mack Energy ATTN: Matt Buckles CC: Sally Cartour (S Carttour & vertex resource.com) Permism & vertex resource, com, and LPullman & vertex resource. For final Report.  possibility Any sub-contracted data will be clearly notated on the analytical report.

### **Login Sample Receipt Checklist**

Client: Vertex Job Number: 885-28074-1

Login Number: 28074 List Source: Eurofins Albuquerque

List Number: 1

**Creator: Proctor, Nancy** 

Question	Answer	Comment
		Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True –	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	N/A	

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

QUESTIONS

Action 484744

#### **QUESTIONS**

Operator:	OGRID:
MACK ENERGY CORP	13837
P.O. Box 960	Action Number:
Artesia, NM 882110960	484744
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Prerequisites		
Incident ID (n#)	nAPP2510568312	
Incident Name	NAPP2510568312 B LEE STATE #006 @ 30-025-39673	
Incident Type	Oil Release	
Incident Status	Remediation Closure Report Approved	
Incident Well	[30-025-39673] B LEE STATE #006	

Location of Release Source			
Please answer all the questions in this group.			
Site Name	B Lee State #006		
Date Release Discovered	04/15/2025		
Surface Owner	State		

Incident Details		
Please answer all the questions in this group.		
Incident Type	Oil Release	
Did this release result in a fire or is the result of a fire	No	
Did this release result in any injuries	No	
Has this release reached or does it have a reasonable probability of reaching a watercourse	No	
Has this release endangered or does it have a reasonable probability of endangering public health	No	
Has this release substantially damaged or will it substantially damage property or the environment	No	
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No	

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for	or the volumes provided should be attached to the follow-up C-141 submission.
Crude Oil Released (bbls) Details	Cause: Corrosion   Flow Line - Production   Crude Oil   Released: 15 BBL   Recovered: 2 BBL   Lost: 13 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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

QUESTIONS, Page 2

Action 484744

QUESTI	ONS (continued)
Operator:  MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID:
QUESTIONS	
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	e. gas only) are to be submitted on the C-129 form.
Initial Response The responsible party must undertake the following actions immediately unless they could create a s	rafety hazard that would result in injury.
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	False
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Release occurred outside of containment.
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releathe OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement  I hereby agree and sign off to the above statement  Email: scarttar@vertex.ca Date: 04/21/2025	

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Phone: (505) 629-6116 Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS, Page 3

Action 484744

**QUESTIONS** (continued)

Operator:	OGRID:
MACK ENERGY CORP	13837
P.O. Box 960	Action Number:
Artesia, NM 882110960	484744
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approva release discovery date.	al and beyond). This information must be provided to the appropriate district office no later than 90 days after the
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 300 and 500 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 500 and 1000 (ft.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between 300 and 500 (ft.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
Requesting a remediation plan approval with this submission	Yes	
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination	n associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)		
Chloride (EPA 300.0 or SM4500 Cl B)	1200	
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	327	
GRO+DRO (EPA SW-846 Method 8015M)	87	
BTEX (EPA SW-846 Method 8021B or 8260B)	0	
Benzene (EPA SW-846 Method 8021B or 8260B)	0	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.		
On what estimated date will the remediation commence	06/05/2025	
On what date will (or did) the final sampling or liner inspection occur	07/02/2025	
On what date will (or was) the remediation complete(d)	06/25/2025	
What is the estimated surface area (in square feet) that will be reclaimed	6291	
What is the estimated volume (in cubic yards) that will be reclaimed	772	
What is the estimated surface area (in square feet) that will be remediated	6291	
What is the estimated volume (in cubic yards) that will be remediated	772	
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.		

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

QUESTIONS, Page 4

Action 484744

**QUESTIONS** (continued)

Operator:	OGRID:
MACK ENERGY CORP	13837
P.O. Box 960	Action Number:
Artesia, NM 882110960	484744
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Remediation Plan (continued)	
e appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
Yes	
HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510]	
Not answered.	
No	

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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.

I hereby agree and sign off to the above statement

I hereby agree and sign off to the above statement

Title: Consultant
Email: scarttar@vertex.ca
Date: 07/14/2025

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

QUESTIONS, Page 5

Action 484744

**QUESTIONS** (continued)

Operator:	OGRID:
MACK ENERGY CORP	13837
P.O. Box 960	Action Number:
Artesia, NM 882110960	484744
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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Phone: (505) 629-6116
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# State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS, Page 6

Action 484744

**QUESTIONS** (continued)

Operator:	OGRID:
MACK ENERGY CORP	13837
P.O. Box 960	Action Number:
Artesia, NM 882110960	484744
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	480106
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/02/2025
What was the (estimated) number of samples that were to be gathered	5
What was the sampling surface area in square feet	1000

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	6291
What was the total volume (cubic yards) remediated	772
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	6291
What was the total volume (in cubic yards) reclaimed	772
Summarize any additional remediation activities not included by answers (above)	As detailed in attached report.

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

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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement

Name: Sally Carttar
Title: Consultant
Email: scarttar@vertex.ca
Date: 07/14/2025

Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS, Page 7

Action 484744

**QUESTIONS** (continued)

Operator:	OGRID:
MACK ENERGY CORP	13837
P.O. Box 960	Action Number:
Artesia, NM 882110960	484744
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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

CONDITIONS

Action 484744

#### **CONDITIONS**

Operator:	OGRID:
MACK ENERGY CORP P.O. Box 960	13837
	Action Number:
Artesia, NM 882110960	484744
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### CONDITIONS

Created By		Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2510568312 B LEE STATE #006, thank you. This Remediation Closure Report is approved.	8/20/2025