

Incident Number: nPCH0514328346

Release Assessment and Closure

Crow Flats Federal Com #001 Section 30, Township 16 South, Range 28 East API: 30-015-23386 County: Eddy Vertex File Number: 23E-05855

Prepared for: EOG Resources, Inc.

Prepared by: Vertex Resource Services Inc.

Date: May 2024 **EOG Resources, Inc.** Crow Flats Federal Com #001

Release Assessment and Closure Crow Flats Federal Com #001 Section 30, Township 16 South, Range 28 East API: 30-015-23386 County: Eddy

Prepared for: **EOG Resources, Inc.** 104 S. 4th Street Artesia, New Mexico 88210

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6/5/2024

Date

EOG Resources, Inc.	Release Assessment and Closure
Crow Flats Federal Com #001	May 2024

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EOG Resources, Inc. Crow Flats Federal Com #001

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1.0 Introduction

EOG Resources, Inc. (EOG) retained Vertex Resource Services Inc. (Vertex) to conduct a Release Assessment and Closure to address the historical impacts at Crow Flats Federal Com #001, API 30-015-23386 (hereafter referred to as the "site"). NMOCD reported the impacts as a Complaint on July 31, 2005. EOG inspected the site and submitted a closure request on July 29, 2022. NMOCD denied the closure request on November 27, 2023, due to discoloration in the berm containment in May 2005 and requested the site be assessed as a release based on findings from satellite imagery of the tank battery. Incident ID number nPCH0514328346 was originally assigned to this Complaint. There was no submission of a C-141 by the operator at the time of the complaint. Vertex performed the assessment to address the closure denial and relieve EOG of the Incident ID with the site now being operated by a different operator.

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 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 impacted area was discovered and a request was made for assessment by NMOCD through historical satellite imagery. The impacted area was located against the tanks within the bermed containment continuing south of the battery. The dates, times, and volumes of the historical impacts are unknown.

3.0 Site Characteristics

The site is located approximately 10 miles northeast of Artesia, New Mexico (Google Inc., 2024). The legal location for the site is Section 30, Township 16 South and Range 28 East in Eddy County, New Mexico. The release area is located on Bureau of Land Management property. An aerial photograph and site schematic are presented in 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 location was acquired by EOG from Three Span Oil and Gas, Inc. in December of 2011. The site was acquired by MRNM from EOG on February 3, 2022. The following sections specifically describe the impacted area on or in proximity to the constructed pad (Figure 1).

The surrounding landscape is associated with ridges and hills with elevations ranging between 1,250 and 5,000 feet. The climate is semiarid with average annual precipitation ranging between 10 and 25 inches. Using information from the United States Department of Agriculture, the dominant vegetation was determined to tobosa, black grama, and blue grama. Grasses with shrubs and half-shrubs dominate the historical plant community (United States Department of Agriculture, Natural Resources Conservation Service, 2024). 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 PsI – Salado Formation (Upper Permian) Evaporite Sequence, dominantly halite (New Mexico Bureau of Geology and Mineral Resources, 2024) and the soil at the site is characterized as loamy (United States Department of Agriculture, Natural Resources Conservation Service, 2024). Additional soil characteristics include a drainage class of well drained to somewhat excessively drained with a runoff class of low. The karst geology potential for the site is high (United States Department of the Interior, Bureau of Land Management, 2018).

4.0 Closure Criteria Determination

The nearest active well to the site is a New Mexico Office of the State Engineer (NMOSE) monitoring well located approximately 0.86 miles southwest of the location (United States Geological Survey, 2024). Data from 2023 shows the NMOSE borehole recorded a depth to groundwater of 55 feet below ground surface (bgs). Information pertaining to the depth to ground water determination is included in Appendix B.

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 a riverine habitat (National Wetlands Inventory) located approximately 0.42 miles southwest of the site (United States Fish and Wildlife Service, 2024).

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.

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Closure C	riteria Worksheet		
	e: EOG Crow Flats Fed Com #1		
Spill Cooi	dinates: 32.8907967, -104.2174301	X:	Y:
Site Spec	ific Conditions	Value	Unit
1	Depth to Groundwater	<50	feet
2	Within 300 feet of any continuously flowing	2 1 0 2	feet
Z	watercourse or any other significant watercourse	2,183	leet
3	Within 200 feet of any lakebed, sinkhole or playa lake	4,675	feet
3	(measured from the ordinary high-water mark)	4,075	leet
4	Within 300 feet from an occupied residence, school,	34,263	feet
4	hospital, institution or church	54,205	leet
	i) Within 500 feet of a spring or a private, domestic		
5	fresh water well used by less than five households for	4,510	feet
5	domestic or stock watering purposes, or		
	ii) Within 1000 feet of any fresh water well or spring		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-	No	(Y/N)
	3 NMSA 1978 as amended, unless the municipality		
	specifically approves		
7	Within 300 feet of a wetland	3,333	feet
8	Within the area overlying a subsurface mine	No	(Y/N)
			Critical
0		115-b	High
9	Within an unstable area (Karst Map)	High	Medium
			Low
10	Within a 100-year Floodplain	>100	year
11	Soil Type	loam, clay loam	
12	Ecological Classification	Reeves- Gypsum	
13	Geology	Psl	
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	<50'	<50' 51-100' >100'

.

The closure criteria determined for the site are associated with the following constituent concentration limits as presented in Table 2.

Table 1. 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							
	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

On December 6, 2023, EOG contracted Vertex to conduct a site investigation including sampling activities which included field screening procedures to address area observed by NMOCD from aerial imagery. It was confirmed by lab analysis that remnant impacts remained in the area. Laboratory results for the site investigation are included in Table 3.

Remediation efforts began on December 18, 2023, and were halted on January 23, 2024, due to production tanks and a pipeline obstructing a portion of the remediation area on the north side of the excavation, deeming it unsafe to excavate with machinery. Excavation and confirmation sampling continued on April 3, 2024, after the production equipment had been moved to allow for safe excavation. Vertex personnel supervised the excavation of impacted soils. Field screening was with results being used to identify areas requiring further remediation throughout the project. Excavation of the site was completed from 12 to 18 feet bgs. Impacted soil was transported by a licensed waste hauler and disposed of at an approved waste management facility as stipulated by the Form C-138 Request for Approval to Accept Solid Waste. The final DFR documenting the final excavation before backfill is presented in Appendix C.

Notification that confirmatory samples were being collected was provided to the NMOCD before each sampling event and they are included in Appendix D. Confirmatory composite samples were collected from the base and walls of the excavation in 200 square foot increments. All samples were collected for laboratory analysis following NMOCD soil sampling procedures. Samples were submitted to Eurofins and Cardinal Laboratories under chain-of-custody protocols and analyzed for BTEX (EPA Method 8021B), total petroleum hydrocarbons (GRO, DRO, MRO – EPA Method 8015D) and total chlorides (EPA Method 300.0). Laboratory results are presented in Table 4, and the laboratory data reports are included in Appendix E. All confirmatory samples collected and analyzed were below closure criteria for the site. **EOG Resources, Inc.** Crow Flats Federal Com #001

6.0 Closure Request

Vertex recommends no additional remediation action to address the impacted area at the site. Laboratory analyses of confirmation samples collected show final confirmatory values below NMOCD closure criteria for areas where depth to groundwater is less than 50 feet bgs. There are no anticipated risks to human, ecological, or hydrological receptors at the site.

The excavation was backfilled with non-waste-containing, uncontaminated, earthen material sourced locally and placed to meet the site's existing grade to prevent water ponding and erosion. The pasture portion of the site was seeded on June 6, 2024, with the BLM recommended seed mixture for loamy soils.

Vertex requests that this open incident be approved for closure as all requirements set forth in Subsection E of 19.15.29.12 NMAC have been met. EOG certifies that all information in this report and the appendices are 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 Remediation Closure Approval.

Should you have any questions or concerns, please do not hesitate to contact Chance Dixon at 575.988.1472 or cdixon@vertex.ca.

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7.0 References

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- United States Geological Survey. (2024). National Water Information System: Web Interface. Retrieved from https://waterdata.usgs.gov/nwis

8.0 Limitations

This report has been prepared for the sole benefit of EOG Resources, Inc. This document may not be used by any other person or entity, with the exception of the New Mexico Oil Conservation Division and the Bureau of Land Management, without the express written consent of Vertex Resource Services Inc. (Vertex) and EOG Resources, Inc. 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.

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FIGURES

Crow Flats Federal Com #1

BH23-01

BH23-03

BH23-04

BH23-02 (

Investigation Samples

Page 13 of 341 Legend Feature 1

Google Earth

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TABLES

Client Name: EOG Resources Inc. Site Name: Crow Flats Federal Com #1 NMOCD Tracking #: nPCH0514328346 Project #: 23E-05855 Lab Report(s): 2315211,

Table 3. Initial Sample Field Screen and Laboratory Results - Depth to Groundwater <50 feet bgs													
	Sample Desci	ription	Fi	eld Screeni	ng			Petrole	eum Hydro				
			ds			Vol	atile			Extractable	9		Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (PetroFlag)	Chloride Concentration	Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics ((MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	Chloride Concentration
			(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
	0	12/6/2023	-	2,090	105	ND	ND	ND	360	530	360	990	ND
	1	12/6/2023	-	1,600	144	ND	ND	ND	1700	2100	1700	3800	ND
BH23-01	1.5	12/7/2023	-	7,560	275								
	2	12/13/2023	1	6,800	470								
	3	12/13/2023	2	7,650	391								
	4	12/13/2023	574	8,470	377								
	0	12/6/2023	-	2,560	74	ND	ND	ND	33	76	36	109	ND
	1	12/6/2023	-	3,090	115	ND	ND	ND	92	98	92	190	ND
	2	12/6/2023	-	4,960	130								
BH23-02	3	12/13/2023	172	EEEE	175								
	4	12/13/2023	560	4,560	380								
	6	12/13/2023	777	11,690	177								
	7.5	12/13/2023	1,747	8,980	197								
	0	12/6/2023	-	1,970	135	ND	ND	ND	57	61	57	118	ND
	1	12/6/2023	-	2,370	67	ND	ND	ND	130	180	130	310	ND
BH23-03	1.5	12/7/2023	-	1,560	140								
вп23-03	2	12/13/2023	2	2,460	393								
	3	12/13/2023	1	3,180	280								
	4	12/13/2023	65	6,490	276								
	0	12/6/2023	_	2,540	120	ND	ND	ND	140	170	140	310	88
	1	12/6/2023	_	2,730	98	ND	ND	ND	350	650	350	1000	ND
	1.5	12/7/2023	_	2,250	150								
DU 22. 0.1	2	12/13/2023	2	3,270	421								
BH23-04	3	12/13/2023	9	3,460	291								
	4	12/13/2023	93	EEEE	467								
	6	12/13/2023	655	EEEE	237								
	7.5	12/13/2023	778	7,090	320								



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Client Name: EOG Resources Inc. Site Name: Crow Flats Federal Com #1

NMOCD Tracking #: nPCH0514328346

Project #: 23E-05855

Lab Report(s): 2312C17, 2312D12, 2401129, 2401791, 2401724, 2401791, H240045, 2401839, 2401878, 2401925, 2401A13, 2401B97, 2402004, 885-2702-1, 885-2769-1, 885-2834-1, 885-2892-1, H241993, 885-3593-1, 885-3733

Table 2. Confirmation Sample Field Screen and Laboratory Results - Depth to Groundwater <50 feet bgs													
	Sample Descr	ription	Fi	eld Screeni	ng			Petrole	um Hydrod				
			spuno	(Vol	atile	cs		Extractable			Inorganic
Sample ID	Depth (ft)	Sample Date	 Volatile Organic Compounds (PID) 	편 전 3 3 Compounds (PetroFlag)	dd) (Bhloride Concentration	Benzene (mg/kg)) BTEX (Total) (b)	ଞ୍ଚ Gasoline Range Organics ଜ୍ୟୁ (GRO)	କ୍ଷ Diesel Range Organics ଅନ୍ଧି (DRO)	없 Motor Oil Range Organics (MRO)	(OXO + OXO) (mg/kg)	ଲି Total Petroleum ଅନ୍ଧି Hydrocarbons (TPH)	(ad)/gm)
WES23-01	0-7	4/9/2024	-	-	1,200	ND	ND	ND	ND	ND	ND	ND	360
WE323-01	8-17	4/9/2024	-	-	1,125	ND	ND	ND	ND	ND	ND	ND	240
WES23-02	0-6	1/23/2024	-	108	500	ND	ND	ND	ND	ND	ND	ND	460
WE323-02	6-11	1/18/2024	-	161	425	ND	ND	ND	24	ND	24	24	330
WES23-03	0-12	1/26/2024	-	124	175	ND	ND	ND	ND	ND	ND	ND	400
WL323-03	0-6	5/13/2024	-	90	500	ND	ND	ND	ND	ND	ND	ND	ND
WES23-04	0-6	1/22/2024	-	58	475	ND	ND	ND	ND	ND	ND	ND	540
WL323-04	6-12	1/22/2024	-	236	700	ND	ND	ND	60	ND	60	60	590
WES23-05	0-6	1/26/2024	-	148	538	ND	ND	ND	54	ND	54	54	480
WE323 05	6-12	1/26/2024	-	177	550	ND	ND	ND	48	ND	48	48	420
WES23-06	0-7	4/15/2024	-	64	663	ND	ND	ND	ND	ND	ND	ND	288
WE323 00	8-17	4/15/2024	-	22	375	ND	ND	ND	ND	ND	ND	ND	336
	0-6	4/25/2024		34	302	ND	ND	ND	ND	ND	ND	ND	ND
WES24-07	6-12	4/25/2024		23	356	ND	ND	ND	ND	ND	ND	ND	ND
	12-17	4/25/2024		75	285	ND	ND	ND	ND	ND	ND	ND	ND
	0-6	4/25/2024		26	245	ND	ND	ND	ND	ND	ND	ND	ND
WES24-08	6-12	4/25/2024		36	495	ND	ND	ND	ND	ND	ND	ND	ND
	12-17	4/25/2024		14	412	ND	ND	ND	ND	ND	ND	ND	ND
	0-4	5/13/2024	-	65	300	ND	ND	ND	ND	ND	ND	ND	16
WES24-09	4-8	5/13/2024	-	95	338	ND	ND	ND	ND	ND	ND	ND	32
	8-12	5/13/2024	-	96	325	ND	ND	ND	ND	ND	ND	ND	16
BES23-01	17	1/30/2024	-	160	350	ND	1	34	66	ND	ND	56	210
BES23-02	18	4/15/2024	-	105	713	0.313	0.313	ND	ND	ND	ND	ND	352
BES23-03	16	1/30/2024	-	160	350	0.065	0.29	10	46	ND	56	56	430
BES23-05	11	1/18/2024	-	199	450	ND	ND	ND	19	ND	19	19	360
BES23-06	12	1/19/2024	-	107	375	ND	ND	ND	12	ND	12	12	480
BES23-07	12	1/19/2024	-	206	325	ND	ND	ND	46	ND	46	46	240
BES23-08	12	1/19/2024	-	111	280	ND	ND	ND	16	ND	16	16	330
BES23-09	14	1/19/2024	-	254	300	ND	0.3	24	54	ND	78	78	260
BES23-10	12	1/23/2024	-	111	450	ND	ND	ND	ND	ND	ND	ND	360
BES24-11	13	1/26/2024	-	88	525	ND	ND	ND	ND 15	ND	ND 15	ND 15	480
BES24-12	16	4/10/2024	-	109	550	ND	ND	ND	15	ND	15	15	370
BES24-13	16	4/10/2024	-	88	525	ND	ND	ND	17 ND	ND	17	17 ND	240
BES24-14	16	4/10/2024	-	83	425	ND	ND	ND	ND	ND	ND	ND	330
BES24-15	18	4/15/2024	-	193	725	ND	1.07	ND	ND	ND	ND	ND	320
BES24-16	17	4/11/2024	-	59	575	ND	ND	ND 18	ND	ND	ND 62	ND 62	300
BES24-17	18	4/11/2024	-	157	380	ND	0.22	18	45	ND	63	63	320
BES24-18	18	4/11/2024	-	251 110	475	ND	ND	31	22 ND	ND	53 ND	53	230
BES24-19	17	4/10/2024	-	-	400	ND	ND 0.1	ND 17	ND 20	ND	ND 27	ND 04	250
BES24-20	18	4/11/2024	-	174	325	ND	0.1	17 ND	20	57	37	94	270
BES24-21	17	4/12/2024	-	198	725	ND	ND	ND	12 ND	ND	12	12 ND	360
BES24-22	17	4/12/2024	-	203	775	ND	ND 0.25	ND 18	ND 32	ND	ND	ND 50	280
BES24-23	16	4/12/2024	-	105	500	ND	0.35	18	32	ND	50	50	490
BES24-24	16	4/12/2024	-	204	400	ND	ND	5.3	14	ND	19.3	19.3	410

"ND" Not Detected at the Reporting Limit

"-" indicates not analyzed/assessed

Bold and grey shaded indicates exceedance outside of NMOCD Closure Criteria (on-pad)



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APPENDIX A – Closure Criteria Research Documentation

Internation Design Communities	V	ate	er C	0	Ι	IU	nn/		/era	ge De	ptn to	o vva	ter	
(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD replaced, O=orpha C=the fil- closed)	ned,	L					W 2=NE est to la	3=SW 4=S rgest) (1	E) NAD83 UTM in n	neters)	(In fe	eet)	
		POD												
	6 1	Sub-		Q	-	-	T	n			D! / D			Vater
POD Number RA 12455 POD1	Code	basın RA	County ED				c Tws 16S	-	X 571998	Y 3638766 🦲	DistanceDep 1379	200	h Water Co 55	olumn 14:
										-			55	11.
<u>RA 04176</u>		RA	XX	3	4 1	1 23	16S	27E	569885	3641470* 🌍	3876	300		
										Avera	ge Depth to Wate	er:	55 fee	et
											Minimum De	pth:	55 fee	et
											Maximum Dep	oth:	55 fee	et
Record Count: 2														
UTMNAD83 Radius	<u>Search (in</u>	<u>meters)</u>	<u>:</u>											
Easting (X): 573	195		North	ing ((Y):	363	9452			Radius: 5000				
*UTM location was derived	6 B1 GG													

WATER

01 - Crow Flats Fed Com #1 - POD





12/8/2023, 10:08:03 AM





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

			< 1	s are 1=N			4=SE)			
				ers are sma			-	`	ΓM in meters)	
Well Tag	POL) Number	Q64 Q	216 Q4	Sec	Tws	Rng	X	Y	
	RA	12455 POD1	2	1 2	36	16S	27E	571998	3638766 🌍	
Driller Lice	ense:	1058	Driller (Compar	ıy:	KE	'S DRI	LLING & P	UMP SERVIC	E
Driller Nan	ne:	KUEHN III, DOI	NALD							
Drill Start	Date:	09/12/2016	Drill Fir	nish Dat	e:	09	/13/201	6 Pl ı	ıg Date:	
Log File Date: 09/29/2016			PCW R	cv Date	:			So	urce:	Shallow
Ритр Туре	:		Pipe Dis	charge	Size:			Es	timated Yield:	17 GPM
Casing Size	e:	4.50	Depth V	Vell:		20	0 feet	De	pth Water:	55 feet
x	Wate	er Bearing Stratif	ications:	To	op l	Bottom	Descr	ription		
				4	55	65	Sands	stone/Gravel	/Conglomerate	
				8	30	90	Other	/Unknown		
				10	50	200	Other	/Unknown		
X		Casing Perf	orations:	Та	op l	Bottom				
				16	50	200				

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.

12/8/23 10:04 AM

POINT OF DIVERSION SUMMARY

National Wetlands Inventory

Page 22 of 341 02 - Watercourse - Crow Flats Fed Com #1 2,183 feet away (0.42 mi)



Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Forested/Shrub Wetland

Freshwater Emergent Wetland

Freshwater Pond

Lake Other Riverine 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.

National Wetlands Inventory

03 - Lakebed - Crow Flats Fed Com #1 4,675 feet away (0.89 mi)



December 8, 2023

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- - Freshwater Pond

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Lake Other Riverine

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

Released to Imaging: 7/9/2024 2:25:28 PM

National Wetlands Inventory (NWI) This page was produced by the NWI mapper

Crowertals Fed Contil#16 PM

Nearest Residence: 34,263 feet away (6.49 mi)

Crow Flags Fe

2 mi

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Google Earth

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New Mexico Office of the State Engineer Active & Inactive Points of Diversion

(with Ownership Information)

	6 b	(acre ft per annum)					X /-11	(R=POD has been replaced and no longer serves this file, C=the file is closed)		rs are 1=N		(NAD83 UTM in met			
WR File Nbr <u>RA 12455</u>	Sub basin RA	Use Dive STK		Owner KEY LIVESTOCK LLC	County ED	POD Number RA 12455 POD1	Well Tag	Code Grant	Source Shallow					X 571998	¥ 3638766
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<u>RA 07931</u>	RA	STK	1.88	BOGLE FARMS	ED	<u>RA 07931</u>				42	36	16S	27E	572405	3638231* 🧧
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<u>LWD 02482</u>	RA	PLS	6.21	BOGLE FARMS	СН	LWD 02482 POD1				2 3	02	17S	27E	570073	3636188* 🧲
Record Count:	7														
	UTMNAD83 Radius Search (in meters): Easting (X): 573195 Northing (Y): 3639452 Radius: 5000														

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, or suitability for purpose of the data.

12/8/23 11:17 AM

ACTIVE & INACTIVE POINTS OF DI

Received by OCD: 7/9/2024 1:19:06 PM Crow Flats Fed Com #1

Nearest Livestock Well: RA12455 4,510 feet away (0.86 mi)



Crow Flats Fed Com #1 📀

RA12455 Livestock Well

Google Earth 024 2:25 20 PM

National Wetlands Inventory

07 - Wetland - Crow Flats Fed Com #1 3,333 feet away (0.63 mi)



Wetlands

Estuarine and Marine Deepwater

Released to Imaging: 7/9/2024 2:25:28 PM

- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

Lake Other Riverine 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.

Received by OCD: 7/9/2024 1:19:06 PM

Mines - Crow Flats Fed Com #1



12/8/2023, 3:54:18 PM

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0	0.13	0.25			0.5 mi
0	0.2	0.4		,	0.8 km

Esri Community Maps Contributors, New Mexico State University, Texas Parks & Wildlife, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, Esri, NASA, NGA, USGS, FEMA

Active Mines in New Mexico





Mational Flood Hazard Layer FIRMette





GS National Map 2023

250 500 1 000 1 500 2 000
Feet 1.6 000
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Eddy County 350120

AREA OF MINIMAL FLOOD HAZARD Z



USDA United States Department of Agriculture

> 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 Eddy Area, New Mexico

Crow Flats Fed Com #1 - Soil Survey



Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/? cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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LG—Largo silt loam, overflow, 0 to 1 percent slopes	
LN—Largo-Stony land complex, 0 to 25 percent slopes	
RG—Reeves-Gypsum land complex, 0 to 3 percent slopes	
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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil
scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

.

Custom Soil Resource Report

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

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MAP LEGE	EGEND	MAP INFORMATION
Area of Interest (AOI) Area of Interest (AOI)	Spoil Area Stony Spot	The soil surveys that comprise your AOI were mapped at 1:20,000.
Soils Soil Map Unit Polygons		Warning: Soil Map may not be valid at this scale.
Soil Map Unit Lines	🕎 Wet Spot	Enlarrament of mans havond the scale of manning can cause
Soil Map Unit Points	△ Other	misunderstanding of the detail of mapping and accuracy of soil
Special Point Features	Special Line Features	line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed
. Blowout	Water Features	scale.
Borrow Pit	Streams and Canals	
Clay Spot	Transportation —— Rails	Please rely on the bar scale on each map sheet for map measurements.
Closed Depression		
🔏 Gravel Pit		Source of Map: Natural Resources Conservation Service Web Soil Survey URL:
🚓 Gravelly Spot	Major Roads	Coordinate System: Web Mercator (EPSG:3857)
🙄 Landfill	Local Roads	Maps from the Web Soil Survey are based on the Web Mercator
🚶 Lava Flow	Background	projection, which preserves direction and shape but distorts
📥 Marsh or swamp	Aerial Photography	distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more
🙊 Mine or Quarry		accurate calculations of distance or area are required.
Miscellaneous Water		This product is generated from the USDA-NRCS certified data as
💿 Perennial Water		of the version date(s) listed below.
Rock Outcrop		Soil Survey Area: Eddy Area, New Mexico
+ Saline Spot		Survey Area Data: Version 19, Sep 7, 2023
Sandy Spot		Soil map units are labeled (as space allows) for map scales
Severely Eroded Spot		1:50,000 or larger.
Sinkhole		Date(s) aerial images were photographed: Nov 12, 2022—Dec
Slide or Slip		2, 2022
🛒 Sodic Spot		The orthophoto or other base map on which the soil lines were
		compiled and digitized probably differs from the background imagery displayed on these mans. As a result some minor

Map Unit Legend (Crow Flats Fed Com #1)

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
GC	Gypsum land-Cottonwood complex, 0 to 3 percent slopes	102.0	14.7%
LG	Largo silt loam, overflow, 0 to 1 percent slopes	30.5	4.4%
LN	Largo-Stony land complex, 0 to 25 percent slopes	253.9	36.7%
RG	Reeves-Gypsum land complex, 0 to 3 percent slopes	305.6	44.2%
Totals for Area of Interest		692.1	100.0%

Map Unit Descriptions (Crow Flats Fed Com #1)

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it

was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An association is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Eddy Area, New Mexico

GC—Gypsum land-Cottonwood complex, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w4g Elevation: 1,250 to 5,000 feet Mean annual precipitation: 10 to 25 inches Mean annual air temperature: 57 to 66 degrees F Frost-free period: 190 to 225 days Farmland classification: Not prime farmland

Map Unit Composition

Gypsum land: 60 percent *Cottonwood and similar soils:* 30 percent *Minor components:* 10 percent *Estimates are based on observations, descriptions, and transects of the mapunit.*

Description of Gypsum Land

Setting

Landform: Ridges, plains, hills Landform position (two-dimensional): Shoulder, backslope, footslope, toeslope Landform position (three-dimensional): Side slope, head slope, nose slope, crest Down-slope shape: Convex Across-slope shape: Linear Parent material: Residuum weathered from gypsum

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 8s Hydric soil rating: No

Description of Cottonwood

Setting

Landform: Ridges, hills Landform position (two-dimensional): Shoulder, backslope, footslope, toeslope Landform position (three-dimensional): Side slope, head slope, nose slope, crest Down-slope shape: Convex Across-slope shape: Linear Parent material: Residuum weathered from gypsum

Typical profile

H1 - 0 to 8 inches: loam H2 - 8 to 60 inches: bedrock

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 3 to 12 inches to paralithic bedrock
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.20 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None

Frequency of ponding: None Calcium carbonate, maximum content: 15 percent Gypsum, maximum content: 5 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 1.2 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 6s Hydrologic Soil Group: D Ecological site: R070BB006NM - Gyp Upland Hydric soil rating: No

Minor Components

Cottonwood

Percent of map unit: 5 percent Ecological site: R070BC033NM - Salty Bottomland Hydric soil rating: No

Rock outcrop

Percent of map unit: 5 percent *Hydric soil rating:* No

LG—Largo silt loam, overflow, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: 1w4z Elevation: 2,000 to 5,700 feet Mean annual precipitation: 6 to 14 inches Mean annual air temperature: 57 to 70 degrees F Frost-free period: 180 to 260 days Farmland classification: Not prime farmland

Map Unit Composition

Largo and similar soils: 98 percent Minor components: 2 percent Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Largo

Setting

Landform: Plains, alluvial fans Landform position (three-dimensional): Talf, rise Down-slope shape: Convex, linear Across-slope shape: Linear Parent material: Calcareous alluvium

Typical profile

H1 - 0 to 6 inches: silt loam H2 - 6 to 60 inches: stratified silt loam to silty clay loam

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: Occasional
Frequency of ponding: None
Calcium carbonate, maximum content: 15 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: High (about 11.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 7c Hydrologic Soil Group: B Ecological site: R070BC017NM - Bottomland Hydric soil rating: No

Minor Components

Pajarito

Percent of map unit: 1 percent Ecological site: R070BD003NM - Loamy Sand Hydric soil rating: No

Largo

Percent of map unit: 1 percent Ecological site: R070BC007NM - Loamy Hydric soil rating: No

LN—Largo-Stony land complex, 0 to 25 percent slopes

Map Unit Setting

National map unit symbol: 1w50 Elevation: 2,000 to 5,700 feet Mean annual precipitation: 6 to 14 inches Mean annual air temperature: 57 to 70 degrees F Frost-free period: 180 to 260 days Farmland classification: Not prime farmland

Map Unit Composition

Largo and similar soils: 41 percent

Stony land: 40 percent *Minor components:* 19 percent *Estimates are based on observations, descriptions, and transects of the mapunit.*

Description of Largo

Setting

Landform: Plains, alluvial fans Landform position (three-dimensional): Talf, rise Down-slope shape: Convex, linear Across-slope shape: Linear Parent material: Calcareous alluvium

Typical profile

H1 - 0 to 4 inches: loam *H2 - 4 to 47 inches:* silt loam *H3 - 47 to 65 inches:* loam

Properties and qualities

Slope: 1 to 5 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.60 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 15 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water supply, 0 to 60 inches: High (about 10.0 inches)

Interpretive groups

Land capability classification (irrigated): 3e Land capability classification (nonirrigated): 7e Hydrologic Soil Group: B Ecological site: R070BC007NM - Loamy Hydric soil rating: No

Minor Components

Simona

Percent of map unit: 7 percent Ecological site: R070BD002NM - Shallow Sandy Hydric soil rating: No

Largo

Percent of map unit: 6 percent Ecological site: R070BC017NM - Bottomland Hydric soil rating: No

Pajarito

Percent of map unit: 6 percent Ecological site: R070BD003NM - Loamy Sand Hydric soil rating: No

RG—Reeves-Gypsum land complex, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w5f Elevation: 1,250 to 5,000 feet Mean annual precipitation: 10 to 25 inches Mean annual air temperature: 57 to 70 degrees F Frost-free period: 190 to 235 days Farmland classification: Not prime farmland

Map Unit Composition

Reeves and similar soils: 55 percent Gypsum land: 30 percent Minor components: 15 percent Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Reeves

Setting

Landform: Ridges, plains, hills Landform position (two-dimensional): Shoulder, backslope, footslope, toeslope Landform position (three-dimensional): Side slope, head slope, nose slope, crest Down-slope shape: Convex Across-slope shape: Linear Parent material: Residuum weathered from gypsum

Typical profile

H1 - 0 to 8 inches: loam H2 - 8 to 32 inches: clay loam H3 - 32 to 60 inches: gypsiferous material

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
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: 25 percent
Gypsum, maximum content: 80 percent
Maximum salinity: Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)
Sodium adsorption ratio, maximum: 4.0
Available water supply, 0 to 60 inches: Low (about 4.3 inches)

Interpretive groups

Land capability classification (irrigated): 3s Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: B *Ecological site:* R070BC007NM - Loamy *Hydric soil rating:* No

Description of Gypsum Land

Setting

Landform: Ridges, plains, hills Landform position (two-dimensional): Shoulder, backslope, footslope, toeslope Landform position (three-dimensional): Side slope, head slope, nose slope, crest Down-slope shape: Convex Across-slope shape: Linear Parent material: Residuum weathered from gypsum

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 8s Hydric soil rating: No

Minor Components

Reagan

Percent of map unit: 5 percent Ecological site: R070BC007NM - Loamy Hydric soil rating: No

Largo

Percent of map unit: 5 percent Ecological site: R070BC007NM - Loamy Hydric soil rating: No

Cottonwood

Percent of map unit: 5 percent Ecological site: R070BC033NM - Salty Bottomland Hydric soil rating: No

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USDA United States Department of Agriculture

> 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 Eddy Area, New Mexico

Crow Flats Fed Com #1 -**Ecological Sites**



Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/? cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

.

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Information for All Uses

Ecological Sites

Individual soil map unit components can be correlated to a particular ecological site. The Ecological Site Assessment section includes ecological site descriptions, plant growth curves, state and transition models, and selected National Plants database information.

All Ecological Sites — (Crow Flats Fed Com #1)

An "ecological site" is the product of all the environmental factors responsible for its development. It has characteristic soils that have developed over time; a characteristic hydrology, particularly infiltration and runoff, that has developed over time; and a characteristic plant community (kind and amount of vegetation). The vegetation, soils, and hydrology are all interrelated. Each is influenced by the others and influences the development of the others. For example, the hydrology of the site is influenced by development of the soil and plant community. The plant community on an ecological site is typified by an association of species that differs from that of other ecological sites in the kind and/or proportion of species or in total production.

An ecological site name provides a general description of a particular ecological site. For example, "Loamy Upland" is the name of a rangeland ecological site. An "ecological site ID" is the symbol assigned to a particular ecological site.

The map identifies the dominant ecological site for each map unit, aggregated by dominant condition. Other ecological sites may occur within each map unit. Each map unit typically consists of one or more components (soils and/or miscellaneous areas). Each soil component is associated with an ecological site. Miscellaneous areas, such as rock outcrop, sand dunes, and badlands, have little or no soil material and support little or no vegetation and therefore are not linked to an ecological site. The table below the map lists all of the ecological sites for each map unit component in your area of interest.

Page 60 of 341



	MAP INFORMATION
Area of Interest (AOI) Area of Interest (AOI)	The soil surveys that comprise your AOI were mapped at 1:20,000.
Solls Soil Rating Polygons	Warning: Soil Map may not be valid at this scale.
R070BC007NM	Enlargement of maps beyond the scale of mapping can cause
R070BC017NM	misunderstanding of the detail of mapping and accuracy of soil
Not rated or not available	line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed
Soil Rating Lines	scale.
R070BC007NM	
R070BC017NM	Please rely on the bar scale on each map sheet for map
Not rated or not available	measurements.
Soil Rating Points	Source of Map: Natural Resources Conservation Service
R070BC007NM	Web Soil Survey URL:
R070BC017NM	Coordinate System: Web Mercator (EPSG:3857)
Not rated or not available	Maps from the Web Soil Survey are based on the Web Mercator
	distance and area. A projection that preserves area, such as the
Streams and Canals	Albers equal-area conic projection, should be used if more
Transportation	מכנתומום במוכתומוה או תואמווהם או מאמווהם או מובמ מוב ובקתוובת.
E Rails	This product is generated from the USDA-NRCS certified data as
Interstate Highways	of the version date(s) listed below.
US Routes	Soil Survey Area: Eddy Area. New Mexico
Major Roads	
Local Roads	Soil man unite ara labalad (as snace allowe) for man snalas
Background	301 map america and a space anows/ for map scares 1:50,000 or larger.
Aerial Photography	Date(s) aerial images were photographed: Nov 12, 2022—Dec 2, 2022
	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

.

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Table—Ecological Sites by Map Unit Component (Crow Flats Fed Com #1)

Map unit symbol	Map unit name	Component name (percent)	Ecological site	Acres in AOI	Percent of AOI
GC	Gypsum land-	Gypsum land (60%)		102.0	14.7%
	Cottonwood complex, 0 to 3 percent slopes	Cottonwood (30%)	R070BB006NM — Gyp Upland		
		Cottonwood (5%)	R070BC033NM — Salty Bottomland		
		Rock outcrop (5%)			
LG	Largo silt loam, overflow, 0 to 1	Largo (98%)	R070BC017NM — Bottomland	30.5	4.4%
	percent slopes	Largo (1%)	R070BC007NM — Loamy		
		Pajarito (1%)	R070BD003NM — Loamy Sand		
c	Largo-Stony land complex, 0 to 25 percent slopes	Largo (41%)	R070BC007NM — Loamy	253.9	36.7%
		Stony land (40%)			
		Simona (7%)	R070BD002NM — Shallow Sandy		
		Largo (6%)	R070BC017NM — Bottomland		
		Pajarito (6%)	R070BD003NM — Loamy Sand		
RG	G Reeves-Gypsum land complex, 0 to 3 percent slopes	Reeves (55%)	R070BC007NM — Loamy	305.6	44.2%
		Gypsum land (30%)			
		Cottonwood (5%)	R070BC033NM — Salty Bottomland		
		Largo (5%)	R070BC007NM — Loamy		
		Reagan (5%)	R070BC007NM — Loamy		
Totals for Area of In	terest	•		692.1	100.0%

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-104.038 32.918 Degrees

APPENDIX B – Daily Field and Sampling Reports

Daily Site Visit Report



Client	EOG Resources Inc.	Inspection Date	4/25/2024
Site Location Name	Crow Flats Federal Com #1	API #	30-015-26299
Client Contact Name	Chase Settle	Project Owner	
Client Contact Phone #	575-703-6537	Project Manager	
Project Reference #			
Unique Project ID			
	S	ummary of Times	
Arrived at Site	4/25/2024 11:34 AM		
Departed Site	4/25/2024 12:30 PM		
		Field Notes	
11:34 Arrived on site	to collect more wall samples to fulfill th	e 200 square-foot require	ment.

12:39 Collected WES24-07 and WES24-08 at 0-6', 6-12', and 12-17' bgs. All samples field screened under strictest criteria.

Next Steps & Recommendations

1 Send samples to lab for analysis.

Daily Site Visit Report





Daily Site Visit Report



Daily Site Visit Signature

Inspector: Chance Dixon

Signature

Signature:

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APPENDIX C – Notifications

From:	Chase Settle
To:	Chance Dixon
Subject:	Fwd: Crow Flats Federal Com 1 (nPCH0514328346) Sampling notification
Date:	November 28, 2023 2:53:09 PM
Attachments:	image001.png

Get Outlook for iOS

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Tuesday, November 28, 2023 2:46:16 PM
To: ocd.enviro@emnrd.nm.gov <ocd.enviro@emnrd.nm.gov>; blm_nm_cfo_spill@blm.gov
<blm_nm_cfo_spill@blm.gov>
Cc: Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>; Artesia
Regulatory <Artesia_Regulatory@eogresources.com>
Subject: Crow Flats Federal Com 1 (nPCH0514328346) Sampling notification

Good afternoon,

EOG Resources, Inc. respectfully submits notification (2) business days prior to conducting sampling on the following location.

Crow Flats Federal Com 1 K-30-16S-28E Eddy County, NM nPCH0514328346

Sampling will begin at 8:00 a.m. on Friday, December 1, 2023.

Thank you,

Tina Huerta Regulatory Specialist Direct: 575.748.4168 Cell: 575.703.3121 Email: <u>tina_huerta@eogresources.com</u>



From:	Chase Settle
To:	Chance Dixon
Subject:	FW: Crow Flats Federal Com 1 (nPCH0514328346) Sampling Notification
Date:	December 4, 2023 8:25:01 AM
Attachments:	image001.png

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Monday, December 4, 2023 8:22 AM
To: ocd.enviro@emnrd.nm.gov; blm_nm_cfo_spill@blm.gov
Cc: Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>; Artesia
Regulatory <Artesia_Regulatory@eogresources.com>
Subject: Crow Flats Federal Com 1 (nPCH0514328346) Sampling Notification

Good morning,

EOG Resources, Inc. respectfully submits notification (2) business days prior to conducting sampling on the following location.

Crow Flats Federal Com 1 K-30-16S-28E Eddy County, NM nPCH0514328346

Sampling will begin at 9:00 a.m. on Wednesday, December 6, 2023, and continue through Thursday, December 7, 2023.

Thank you,

Tina Huerta Regulatory Specialist Direct: 575.748.4168 Cell: 575.703.3121 Email: tina_huerta@eogresources.com



Artesia Division
From:	Chase Settle
To:	Chance Dixon
Subject:	Fwd: Crow Flats Federal Com 1 (nPCH0514328346) Sampling Notification
Date:	December 11, 2023 6:09:29 AM
Attachments:	image001.png

Get Outlook for iOS

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Friday, December 8, 2023 10:04:56 AM
To: Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>
Cc: Artesia Regulatory <Artesia_Regulatory@eogresources.com>
Subject: Crow Flats Federal Com 1 (nPCH0514328346) Sampling Notification

To whom it may concern (c/o Tina Huerta for EOG RESOURCES INC), The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nPCH0514328346.

The sampling event is expected to take place:

When: 12/13/2023 @ 08:30

Where: K-30-16S-28E 1980 FSL 1980 FWL (32.8907967,-104.2174301)

Additional Information: Chase Settle

Rep Safety & Environmental Sr EOG Resources 104 S. 4th Street Artesia, NM 88210 575-748-4171 (Office)

Additional Instructions: Site navigation information can be provided through email request

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

• Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, NM 87505

To whom it may concern (c/o Tina Huerta for EOG RESOURCES INC), The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nPCH0514328346.

The sampling event is expected to take place:

When: 12/14/2023 @ 08:30

Where: K-30-16S-28E 1980 FSL 1980 FWL (32.8907967,-104.2174301)

Additional Information: Chase Settle Rep Safety & Environmental Sr EOG Resources 104 S. 4th Street Artesia, NM 88210 575-748-4171 (Office)

Additional Instructions: Site navigation information can be provided through email request

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

• Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive Santa Fe, NM 87505

Tina Huerta Regulatory Specialist Direct: 575.748.4168 Cell: 575.703.3121 Email: <u>tina huerta@eogresources.com</u>



Received by OCD: 7/9/2024 1:19:06 PM

From:	Chase Settle
To:	Chance Dixon
Subject:	Fwd: Crow Flats Federal Com 1 (nPCH0514328346) Sampling Notification
Date:	December 12, 2023 7:45:24 PM
Attachments:	image001.png

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From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Tuesday, December 12, 2023 3:36:28 PM
To: blm_nm_cfo_spill@blm.gov <blm_nm_cfo_spill@blm.gov>
Cc: Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>; Artesia
Regulatory <Artesia_Regulatory@eogresources.com>
Subject: Crow Flats Federal Com 1 (nPCH0514328346) Sampling Notification

To whom it may concern (c/o Tina Huerta for EOG RESOURCES INC), The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nPCH0514328346.

The sampling event is expected to take place:

When: 12/15/2023 @ 08:00

Where: K-30-16S-28E 1980 FSL 1980 FWL (32.8907967,-104.2174301)

Additional Information: Chase Settle

Rep Safety & Environmental Sr EOG Resources 104 S. 4th Street Artesia, NM 88210 575-748-4171 (Office)

Additional Instructions: Site navigation information can be provided through email request

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

• Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive Santa Fe, NM 87505 To whom it may concern (c/o Tina Huerta for EOG RESOURCES INC), The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nPCH0514328346.

The sampling event is expected to take place:

When: 12/18/2023 @ 08:00

Where: K-30-16S-28E 1980 FSL 1980 FWL (32.8907967,-104.2174301)

Additional Information: Chase Settle Rep Safety & Environmental Sr EOG Resources 104 S. 4th Street Artesia, NM 88210 575-748-4171 (Office)

Additional Instructions: Site navigation information can be provided through email request

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

• Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive Santa Fe, NM 87505 Thank you,

Tina Huerta Regulatory Specialist Direct: 575.748.4168 Cell: 575.703.3121 Email: <u>tina_huerta@eogresources.com</u>



From:	Chase Settle
To:	Chance Dixon
Subject:	FW: Crow Flats Federal Com 1 (nPCH0514328346) Sampling Notification
Date:	December 18, 2023 1:55:27 PM
Attachments:	image001.png

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Monday, December 18, 2023 1:55 PM
To: blm_nm_cfo_spill@blm.gov
Cc: Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>; Artesia
Regulatory <Artesia_Regulatory@eogresources.com>
Subject: Crow Flats Federal Com 1 (nPCH0514328346) Sampling Notification

To whom it may concern (c/o Tina Huerta for EOG RESOURCES INC), The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nPCH0514328346.

The sampling event is expected to take place:

When: 12/21/2023 @ 08:00

Where: K-30-16S-28E 1980 FSL 1980 FWL (32.8907967,-104.2174301)

Additional Information: Chase Settle

Rep Safety & Environmental Sr EOG Resources 104 S. 4th Street Artesia, NM 88210 575-748-4171 (Office)

Additional Instructions: Site navigation information can be provided through email request

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

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New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive Santa Fe, NM 87505 To whom it may concern (c/o Tina Huerta for EOG RESOURCES INC), The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nPCH0514328346.

The sampling event is expected to take place:

When: 12/22/2023 @ 08:00

Where: K-30-16S-28E 1980 FSL 1980 FWL (32.8907967,-104.2174301)

Additional Information: Chase Settle Rep Safety & Environmental Sr EOG Resources 104 S. 4th Street Artesia, NM 88210 575-748-4171 (Office)

Additional Instructions: Site navigation information can be provided through email request

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

• Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive Santa Fe, NM 87505 Thank you,

Tina Huerta Regulatory Specialist Direct: 575.748.4168 Cell: 575.703.3121 Email: tina_huerta@eogresources.com



Artesia Division

From:	Chase Settle
To:	Chance Dixon
Subject:	FW: Crow Flats Federal Com 1 (nPCH0514328346) Sampling Notification
Date:	January 2, 2024 8:55:36 AM
Attachments:	image001.png

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Wednesday, December 27, 2023 3:11 PM
To: blm_nm_cfo_spill@blm.gov
Cc: Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>; Artesia
Regulatory <Artesia_Regulatory@eogresources.com>
Subject: Crow Flats Federal Com 1 (nPCH0514328346) Sampling Notification

To whom it may concern (c/o Tina Huerta for EOG RESOURCES INC), The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nPCH0514328346.

The sampling event is expected to take place:

When: 01/02/2024 @ 08:00

Where: K-30-16S-28E 1980 FSL 1980 FWL (32.8907967,-104.2174301)

Additional Information: Chase Settle

Rep Safety & Environmental Sr EOG Resources 104 S. 4th Street Artesia, NM 88210 575-748-4171 (Office)

Additional Instructions: Site navigation information can be provided through email request

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive Santa Fe, NM 87505 To whom it may concern (c/o Tina Huerta for EOG RESOURCES INC), The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nPCH0514328346.

The sampling event is expected to take place:

When: 01/03/2024 @ 08:00

Where: K-30-16S-28E 1980 FSL 1980 FWL (32.8907967,-104.2174301)

Additional Information: Chase Settle Rep Safety & Environmental Sr EOG Resources 104 S. 4th Street Artesia, NM 88210 575-748-4171 (Office)

Additional Instructions: Site navigation information can be provided through email request

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

• Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive
Santa Fe, NM 87505
To whom it may concern (c/o Tina Huerta for EOG RESOURCES INC),
The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nPCH0514328346.

The sampling event is expected to take place:

When: 01/04/2024 @ 08:00

Where: K-30-16S-28E 1980 FSL 1980 FWL (32.8907967,-104.2174301)

Additional Information: Chase Settle Rep Safety & Environmental Sr EOG Resources 104 S. 4th Street Artesia, NM 88210 575-748-4171 (Office)

Additional Instructions: Site navigation information can be provided through email request

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

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New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, NM 87505 To whom it may concern (c/o Tina Huerta for EOG RESOURCES INC), The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nPCH0514328346. The sampling event is expected to take place:

When: 01/05/2024 @ 08:00

Where: K-30-16S-28E 1980 FSL 1980 FWL (32.8907967,-104.2174301)

Additional Information: Chase Settle Rep Safety & Environmental Sr EOG Resources 104 S. 4th Street Artesia, NM 88210 575-748-4171 (Office)

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If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, NM 87505 Thank you,

Tina Huerta Regulatory Specialist Direct: 575.748.4168 Cell: 575.703.3121 Email: <u>tina_huerta@eogresources.com</u>



From:	Chase Settle
To:	Chance Dixon
Subject:	FW: Crow Flats Federal Com 1 (nPCH0514328346) Sampling Notification
Date:	January 4, 2024 10:35:37 AM
Attachments:	image001.png

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Thursday, January 4, 2024 10:35 AM
To: blm_nm_cfo_spill@blm.gov
Cc: Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>; Artesia
Regulatory <Artesia_Regulatory@eogresources.com>
Subject: Crow Flats Federal Com 1 (nPCH0514328346) Sampling Notification

To whom it may concern (c/o Tina Huerta for EOG RESOURCES INC), The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nPCH0514328346.

The sampling event is expected to take place:

When: 01/08/2024 @ 11:00

Where: K-30-16S-28E 1980 FSL 1980 FWL (32.8907967,-104.2174301)

Additional Information: Chase Settle

Rep Safety & Environmental Sr EOG Resources 104 S. 4th Street Artesia, NM 88210 575-748-4171 (Office)

Additional Instructions: Site navigation information can be provided through email request

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

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New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive Santa Fe, NM 87505 To whom it may concern (c/o Tina Huerta for EOG RESOURCES INC), The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nPCH0514328346.

The sampling event is expected to take place:

When: 01/09/2024 @ 08:00

Where: K-30-16S-28E 1980 FSL 1980 FWL (32.8907967,-104.2174301)

Additional Information: Chase Settle Rep Safety & Environmental Sr EOG Resources 104 S. 4th Street Artesia, NM 88210 575-748-4171 (Office)

Additional Instructions: Site navigation information can be provided through email request

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

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If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive
Santa Fe, NM 87505
To whom it may concern (c/o Tina Huerta for EOG RESOURCES INC),
The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nPCH0514328346.

The sampling event is expected to take place:

When: 01/10/2024 @ 08:00

Where: K-30-16S-28E 1980 FSL 1980 FWL (32.8907967,-104.2174301)

Additional Information: Chase Settle Rep Safety & Environmental Sr EOG Resources 104 S. 4th Street Artesia, NM 88210

575-748-4171 (Office)

Additional Instructions: Site navigation information can be provided through email request

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New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, NM 87505 To whom it may concern (c/o Tina Huerta for EOG RESOURCES INC), The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nPCH0514328346. The sampling event is expected to take place:

When: 01/11/2024 @ 08:00

Where: K-30-16S-28E 1980 FSL 1980 FWL (32.8907967,-104.2174301)

Additional Information: Chase Settle Rep Safety & Environmental Sr EOG Resources 104 S. 4th Street Artesia, NM 88210 575-748-4171 (Office)

Additional Instructions: Site navigation information can be provided through email request

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New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive Santa Fe, NM 87505 To whom it may concern (c/o Tina Huerta for EOG RESOURCES INC), The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nPCH0514328346.

The sampling event is expected to take place:

When: 01/12/2024 @ 08:00

Where: K-30-16S-28E 1980 FSL 1980 FWL (32.8907967,-104.2174301)

Additional Information: Chase Settle Rep Safety & Environmental Sr EOG Resources 104 S. 4th Street Artesia, NM 88210 575-748-4171 (Office)

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New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, NM 87505 Thank you,

Tina Huerta Regulatory Specialist Direct: 575.748.4168 Cell: 575.703.3121 Email: <u>tina_huerta@eogresources.com</u>



From:	Chase Settle
To:	Chance Dixon
Subject:	FW: Crow Flats Federal Com 1 (nPCH0514328346) Sampling Notification
Date:	Thursday, January 18, 2024 7:16:48 AM
Attachments:	image001.png

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Tuesday, January 9, 2024 10:39 AM
To: blm_nm_cfo_spill@blm.gov
Cc: Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>; Artesia
Regulatory <Artesia_Regulatory@eogresources.com>
Subject: Crow Flats Federal Com 1 (nPCH0514328346) Sampling Notification

To whom it may concern (c/o Tina Huerta for EOG RESOURCES INC), The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nPCH0514328346.

The sampling event is expected to take place:

When: 01/12/2024 @ 08:00

Where: K-30-16S-28E 1980 FSL 1980 FWL (32.8907967,-104.2174301)

Additional Information: Chase Settle

Rep Safety & Environmental Sr EOG Resources 104 S. 4th Street Artesia, NM 88210 575-748-4171 (Office)

Additional Instructions: Site navigation information can be provided through email request

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If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive Santa Fe, NM 87505 Thank you,

Tina Hverta Regulatory Specialist Direct: 575.748.4168 Cell: 575.703.3121 Email: <u>tina_huerta@eogresources.com</u>



Artesia Division

From:	Chase Settle
To:	Chance Dixon
Subject:	Fwd: Crow Flats Federal Com 1 (nPCH0514328346) Sampling Notification
Date:	January 11, 2024 12:35:46 AM
Attachments:	image001.png

Get Outlook for iOS

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Wednesday, January 10, 2024 4:37:26 PM
To: blm_nm_cfo_spill@blm.gov <blm_nm_cfo_spill@blm.gov>
Cc: Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>; Artesia
Regulatory <Artesia_Regulatory@eogresources.com>
Subject: Crow Flats Federal Com 1 (nPCH0514328346) Sampling Notification

To whom it may concern (c/o Tina Huerta for EOG RESOURCES INC), The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nPCH0514328346.

The sampling event is expected to take place:

When: 01/16/2024 @ 11:00

Where: K-30-16S-28E 1980 FSL 1980 FWL (32.8907967,-104.2174301)

Additional Information: Chase Settle

Rep Safety & Environmental Sr EOG Resources 104 S. 4th Street Artesia, NM 88210 575-748-4171 (Office)

Additional Instructions: Site navigation information can be provided through email request

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New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, NM 87505 To whom it may concern (c/o Tina Huerta for EOG RESOURCES INC), The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nPCH0514328346.

The sampling event is expected to take place:

When: 01/17/2024 @ 11:00

Where: K-30-16S-28E 1980 FSL 1980 FWL (32.8907967,-104.2174301)

Additional Information: Chase Settle Rep Safety & Environmental Sr EOG Resources 104 S. 4th Street Artesia, NM 88210 575-748-4171 (Office)

Additional Instructions: Site navigation information can be provided through email request

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

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New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, NM 87505 To whom it may concern (c/o Tina Huerta for EOG RESOURCES INC), The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nPCH0514328346.

The sampling event is expected to take place:

When: 01/18/2024 @ 11:00

Where: K-30-16S-28E 1980 FSL 1980 FWL (32.8907967,-104.2174301)

Additional Information: Chase Settle

Rep Safety & Environmental Sr EOG Resources 104 S. 4th Street Artesia, NM 88210 575-748-4171 (Office)

Additional Instructions: Site navigation information can be provided through email request

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New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, NM 87505 To whom it may concern (c/o Tina Huerta for EOG RESOURCES INC), The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C- 141N), for incident ID (n#) nPCH0514328346.

The sampling event is expected to take place:

When: 01/19/2024 @ 11:00

Where: K-30-16S-28E 1980 FSL 1980 FWL (32.8907967,-104.2174301)

Additional Information: Chase Settle Rep Safety & Environmental Sr EOG Resources 104 S. 4th Street Artesia, NM 88210 575-748-4171 (Office)

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New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, NM 87505 Thank you,

Tina Huerta Regulatory Specialist Direct: 575.748.4168 Cell: 575.703.3121 Email: <u>tina_huerta@eogresources.com</u>



From:	Chase Settle
To:	Chance Dixon
Subject:	FW: Crow Flats Federal Com 1 (nPCH0514328346) Sampling notification
Date:	Thursday, January 18, 2024 9:19:41 AM
Attachments:	image001.png

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Thursday, January 18, 2024 9:19 AM
To: blm_nm_cfo_spill@blm.gov
Cc: Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>
Subject: Crow Flats Federal Com 1 (nPCH0514328346) Sampling notification

To whom it may concern (c/o Tina Huerta for EOG RESOURCES INC), The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nPCH0514328346.

The sampling event is expected to take place:

When: 01/22/2024 @ 10:00

Where: K-30-16S-28E 1980 FSL 1980 FWL (32.8907967,-104.2174301)

Additional Information: Chase Settle Rep Safety & Environmental Sr EOG Resources 104 S. 4th Street Artesia, NM 88210 575-748-4171 (Office)

Additional Instructions: Site navigation information can be provided through email request

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

• Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in

the remediation closure samples not being accepted.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, NM 87505 To whom it may concern (c/o Tina Huerta for EOG RESOURCES INC), The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nPCH0514328346.

The sampling event is expected to take place:

When: 01/23/2024 @ 10:00

Where: K-30-16S-28E 1980 FSL 1980 FWL (32.8907967,-104.2174301)

Additional Information: Chase Settle Rep Safety & Environmental Sr EOG Resources 104 S. 4th Street Artesia, NM 88210 575-748-4171 (Office)

Additional Instructions: Site navigation information can be provided through email request

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

• Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, NM 87505 To whom it may concern (c/o Tina Huerta for EOG RESOURCES INC), The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nPCH0514328346.

The sampling event is expected to take place:

When: 01/24/2024 @ 10:00

Where: K-30-16S-28E 1980 FSL 1980 FWL (32.8907967,-104.2174301)

Additional Information: Chase Settle Rep Safety & Environmental Sr EOG Resources 104 S. 4th Street Artesia, NM 88210 575-748-4171 (Office)

Additional Instructions: Site navigation information can be provided through email request

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

• Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, NM 87505 To whom it may concern (c/o Tina Huerta for EOG RESOURCES INC), The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nPCH0514328346. The sampling event is expected to take place:

When: 01/25/2024 @ 10:00

Where: K-30-16S-28E 1980 FSL 1980 FWL (32.8907967,-104.2174301)

Additional Information: Chase Settle Rep Safety & Environmental Sr EOG Resources 104 S. 4th Street Artesia, NM 88210 575-748-4171 (Office)

Additional Instructions: Site navigation information can be provided through email request

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

• Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, NM 87505 To whom it may concern (c/o Tina Huerta for EOG RESOURCES INC), The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nPCH0514328346.

The sampling event is expected to take place:

When: 01/26/2024 @ 10:00

Where: K-30-16S-28E 1980 FSL 1980 FWL (32.8907967,-104.2174301)

Additional Information: Chase Settle Rep Safety & Environmental Sr EOG Resources 104 S. 4th Street Artesia, NM 88210 575-748-4171 (Office)

Additional Instructions: Site navigation information can be provided through email request

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

• Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, NM 87505 Thank you,

Tina Huerta Regulatory Specialist Direct: 575.748.4168 Cell: 575.703.3121 Email: <u>tina_huerta@eogresources.com</u>



From:	James Kennedy
To:	Chase Settle
Subject:	FW: The Oil Conservation Division (OCD) has accepted the application, Application ID: 328373
Date:	Monday, April 1, 2024 10:09:20 AM

James F. Kennedy

Environmental Supervisor Midland Division C: 432-258-4346 O: 432-848-9146

?

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Monday, April 1, 2024 11:08 AM
To: James Kennedy <James_Kennedy@eogresources.com>
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 328373

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

To whom it may concern (c/o James Kennedy for EOG RESOURCES INC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nPCH0514328346.

The sampling event is expected to take place:

When: 04/04/2024 @ 08:00 **Where:** K-30-16S-28E 1980 FSL 1980 FWL (32.8907967,-104.2174301)

Additional Information: Chase Settle 575-703-6537 chase_settle@eogresources.com

Additional Instructions: Directions to the site can be provided after an email request

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive Santa Fe, NM 87505

From:	James Kennedy
To:	Chase Settle
Subject:	FW: The Oil Conservation Division (OCD) has accepted the application, Application ID: 328381
Date:	Monday, April 1, 2024 10:18:04 AM

James F. Kennedy

Environmental Supervisor Midland Division C: 432-258-4346 O: 432-848-9146

?

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Monday, April 1, 2024 11:16 AM
To: James Kennedy <James_Kennedy@eogresources.com>
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 328381

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

To whom it may concern (c/o James Kennedy for EOG RESOURCES INC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nPCH0514328346.

The sampling event is expected to take place:

When: 04/05/2024 @ 08:00 Where: K-30-16S-28E 1980 FSL 1980 FWL (32.8907967,-104.2174301)

Additional Information: Chase Settle 575-703-6537 chase_settle@eogresources.com

Additional Instructions: Directions to the site can be provided after an email request

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive Santa Fe, NM 87505

From:	James Kennedy
To:	Chase Settle
Subject:	FW: The Oil Conservation Division (OCD) has accepted the application, Application ID: 328361
Date:	Monday, April 1, 2024 10:09:16 AM

James F. Kennedy

Environmental Supervisor Midland Division C: 432-258-4346 O: 432-848-9146

?

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Monday, April 1, 2024 10:55 AM
To: James Kennedy <James_Kennedy@eogresources.com>
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 328361

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

To whom it may concern (c/o James Kennedy for EOG RESOURCES INC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nPCH0514328346.

The sampling event is expected to take place:

When: 04/03/2024 @ 08:00 **Where:** K-30-16S-28E 1980 FSL 1980 FWL (32.8907967,-104.2174301)

Additional Information: Chase Settle 575-703-6537 chase_settle@eogresources.com

Additional Instructions: Directions to the site can be provided after an email request

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive Santa Fe, NM 87505

From:	James Kennedy
To:	Chase Settle
Subject:	FW: The Oil Conservation Division (OCD) has accepted the application, Application ID: 332327
Date:	Thursday, April 11, 2024 8:30:21 AM

James F. Kennedy

Environmental Supervisor Midland Division C: 432-258-4346 O: 432-848-9146

?

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Thursday, April 11, 2024 9:17 AM
To: James Kennedy <James_Kennedy@eogresources.com>
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 332327

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

To whom it may concern (c/o James Kennedy for EOG RESOURCES INC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nPCH0514328346.

The sampling event is expected to take place:

When: 04/16/2024 @ 08:00 Where: K-30-16S-28E 1980 FSL 1980 FWL (32.8907967,-104.2174301)

Additional Information: Chase Settle 575-703-6537 chase_settle@eogresources.com

Additional Instructions: Directions to the site can be provided after an email request

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.
date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive Santa Fe, NM 87505

From:	James Kennedy
To:	Chase Settle
Subject:	FW: The Oil Conservation Division (OCD) has accepted the application, Application ID: 332329
Date:	Thursday, April 11, 2024 8:30:27 AM

James F. Kennedy

Environmental Supervisor Midland Division C: 432-258-4346 O: 432-848-9146

?

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Thursday, April 11, 2024 9:28 AM
To: James Kennedy <James_Kennedy@eogresources.com>
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 332329

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

To whom it may concern (c/o James Kennedy for EOG RESOURCES INC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nPCH0514328346.

The sampling event is expected to take place:

When: 04/17/2024 @ 08:00 **Where:** K-30-16S-28E 1980 FSL 1980 FWL (32.8907967,-104.2174301)

Additional Information: Chase Settle 575-703-6537 chase_settle@eogresources.com

Additional Instructions: Directions to the site can be provided after an email request

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

• Failure to notify the OCD of sampling events including any changes in

date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive Santa Fe, NM 87505

From:	James Kennedy
To:	Chase Settle
Subject:	FW: The Oil Conservation Division (OCD) has accepted the application, Application ID: 332345
Date:	Thursday, April 11, 2024 8:38:34 AM

James F. Kennedy

Environmental Supervisor Midland Division C: 432-258-4346 O: 432-848-9146

?

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Thursday, April 11, 2024 9:38 AM
To: James Kennedy <James_Kennedy@eogresources.com>
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 332345

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

To whom it may concern (c/o James Kennedy for EOG RESOURCES INC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nPCH0514328346.

The sampling event is expected to take place:

When: 04/19/2024 @ 08:00 **Where:** K-30-16S-28E 1980 FSL 1980 FWL (32.8907967,-104.2174301)

Additional Information: Chase Settle 575-703-6537 chase_settle@eogresources.com

Additional Instructions: Directions to the site can be provided after an email request

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

• Failure to notify the OCD of sampling events including any changes in

date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive Santa Fe, NM 87505

From:	James Kennedy
To:	Chase Settle
Subject:	FW: The Oil Conservation Division (OCD) has accepted the application, Application ID: 332316
Date:	Thursday, April 11, 2024 8:30:15 AM

James F. Kennedy

Environmental Supervisor Midland Division C: 432-258-4346 O: 432-848-9146

?

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Thursday, April 11, 2024 9:07 AM
To: James Kennedy <James_Kennedy@eogresources.com>
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 332316

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

To whom it may concern (c/o James Kennedy for EOG RESOURCES INC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nPCH0514328346.

The sampling event is expected to take place:

When: 04/15/2024 @ 08:00 Where: K-30-16S-28E 1980 FSL 1980 FWL (32.8907967,-104.2174301)

Additional Information: Chase Settle 575-703-6537 chase_settle@eogresources.com

Additional Instructions: Directions to the site can be provided after an email request

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

• Failure to notify the OCD of sampling events including any changes in

date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive Santa Fe, NM 87505

From:	James Kennedy
To:	Chase Settle
Subject:	FW: The Oil Conservation Division (OCD) has accepted the application, Application ID: 332336
Date:	Thursday, April 11, 2024 8:30:38 AM

James F. Kennedy

Environmental Supervisor Midland Division C: 432-258-4346 O: 432-848-9146

?

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Thursday, April 11, 2024 9:30 AM
To: James Kennedy <James_Kennedy@eogresources.com>
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 332336

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

To whom it may concern (c/o James Kennedy for EOG RESOURCES INC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nPCH0514328346.

The sampling event is expected to take place:

When: 04/18/2024 @ 08:00 Where: K-30-16S-28E 1980 FSL 1980 FWL (32.8907967,-104.2174301)

Additional Information: Chase Settle 575-703-6537 chase_settle@eogresources.com

Additional Instructions: Directions to the site can be provided after an email request

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

• Failure to notify the OCD of sampling events including any changes in

date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive Santa Fe, NM 87505

From:	Chase Settle
To:	Chance Dixon
Subject:	FW: The Oil Conservation Division (OCD) has accepted the application, Application ID: 336422
Date:	Tuesday, April 23, 2024 4:08:26 PM

From: James Kennedy <James_Kennedy@eogresources.com>
Sent: Tuesday, April 23, 2024 8:57 AM
To: Chase Settle <Chase_Settle@eogresources.com>
Subject: FW: The Oil Conservation Division (OCD) has accepted the application, Application ID: 336422

James F. Kennedy

Environmental Supervisor Midland Division C: 432-258-4346 O: 432-848-9146



From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Tuesday, April 23, 2024 9:57 AM
To: James Kennedy <<u>James_Kennedy@eogresources.com</u>>
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 336422

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

To whom it may concern (c/o James Kennedy for EOG RESOURCES INC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nPCH0514328346.

The sampling event is expected to take place:

When: 04/25/2024 @ 08:00 **Where:** K-30-16S-28E 1980 FSL 1980 FWL (32.8907967,-104.2174301)

Additional Information: Chase Settle 575-703-6537 chase_settle@eogresources.com Additional Instructions: Directions to the site can be provided after an email request

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

• Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, NM 87505

APPENDIX D – Laboratory Data Reports and Chain of Custody Forms



Environment Testing

Eurofins Environment Testing South Central, LLC 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

January 02, 2024 Chance Dixon EOG 105 South Fourth Street Artesia, NM 88210 TEL: FAX:

RE: Crow Flats Fed Com 1

OrderNo.: 2312C17

Dear Chance Dixon:

Eurofins Environment Testing South Central, LLC received 3 sample(s) on 12/21/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2312C17

Date Reported: 1/2/2024

CLIENT: EOG		0	Client Sample ID: WES23-01
Project:	Crow Flats Fed Com 1		Collection Date: 12/18/2023 2:05:00 PM
Lab ID:	2312C17-001	Matrix: MEOH (SOIL)	Received Date: 12/21/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	ксв
Chloride	300	60		mg/Kg	20	12/21/2023 2:12:28 PM	79551
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	DGH
Diesel Range Organics (DRO)	4200	95		mg/Kg	10	12/22/2023 5:28:09 PM	79548
Motor Oil Range Organics (MRO)	2800	470		mg/Kg	10	12/22/2023 5:28:09 PM	79548
Surr: DNOP	0	69-147	S	%Rec	10	12/22/2023 5:28:09 PM	79548
EPA METHOD 8015D: GASOLINE RANGE						Analyst	RAA
Gasoline Range Organics (GRO)	77	23		mg/Kg	5	12/21/2023 12:15:00 PM	1 GS10201
Surr: BFB	220	15-244		%Rec	5	12/21/2023 12:15:00 PN	1 GS10201
EPA METHOD 8021B: VOLATILES						Analyst	RAA
Benzene	ND	0.12		mg/Kg	5	12/21/2023 12:15:00 PM	1 R102015
Toluene	ND	0.23		mg/Kg	5	12/21/2023 12:15:00 PM	1 R102015
Ethylbenzene	0.91	0.23		mg/Kg	5	12/21/2023 12:15:00 PM	1 R102015
Xylenes, Total	1.6	0.46		mg/Kg	5	12/21/2023 12:15:00 PN	1 R102015
Surr: 4-Bromofluorobenzene	130	39.1-146		%Rec	5	12/21/2023 12:15:00 PM	1 R102015

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- В Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits Р Sample pH Not In Range
- RL Reporting Limit

Page 1 of 7

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2312C17

Date Reported: 1/2/2024

CLIENT: EOG		(Client Sample ID: WES23-02
Project:	Crow Flats Fed Com 1		Collection Date: 12/18/2023 2:10:00 PM
Lab ID:	2312C17-002	Matrix: MEOH (SOIL)	Received Date: 12/21/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	KCB
Chloride	240	60		mg/Kg	20	12/21/2023 2:27:38 PM	79551
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst	DGH
Diesel Range Organics (DRO)	1800	96		mg/Kg	10	12/22/2023 6:08:29 PM	79548
Motor Oil Range Organics (MRO)	1300	480		mg/Kg	10	12/22/2023 6:08:29 PM	79548
Surr: DNOP	0	69-147	S	%Rec	10	12/22/2023 6:08:29 PM	79548
EPA METHOD 8015D: GASOLINE RANGE						Analyst	RAA
Gasoline Range Organics (GRO)	35	4.2		mg/Kg	1	12/21/2023 12:37:00 PM	I GS10201
Surr: BFB	277	15-244	S	%Rec	1	12/21/2023 12:37:00 PM	I GS10201
EPA METHOD 8021B: VOLATILES						Analyst	RAA
Benzene	ND	0.021		mg/Kg	1	12/21/2023 12:37:00 PM	R102015
Toluene	ND	0.042		mg/Kg	1	12/21/2023 12:37:00 PM	I R102015
Ethylbenzene	0.18	0.042		mg/Kg	1	12/21/2023 12:37:00 PM	1 R102015
Xylenes, Total	0.48	0.083		mg/Kg	1	12/21/2023 12:37:00 PM	1 R102015
Surr: 4-Bromofluorobenzene	190	39.1-146	S	%Rec	1	12/21/2023 12:37:00 PM	R102015

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- В Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits Р Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2312C17

Date Reported: 1/2/2024

CLIENT: EOG		C	Client Sample ID: WES23-03
Project:	Crow Flats Fed Com 1		Collection Date: 12/18/2023 2:15:00 PM
Lab ID:	2312C17-003	Matrix: MEOH (SOIL)	Received Date: 12/21/2023 7:45:00 AM

Analyses	Result	RL	Qual	l Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	KCB
Chloride	130	60		mg/Kg	20	12/21/2023 2:42:48 PM	79551
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst	DGH
Diesel Range Organics (DRO)	13000	200		mg/Kg	20	12/22/2023 6:48:47 PM	79548
Motor Oil Range Organics (MRO)	6100	990		mg/Kg	20	12/22/2023 6:48:47 PM	79548
Surr: DNOP	0	69-147	S	%Rec	20	12/22/2023 6:48:47 PM	79548
EPA METHOD 8015D: GASOLINE RANGE						Analyst	RAA
Gasoline Range Organics (GRO)	530	21		mg/Kg	5	12/21/2023 12:59:00 PM	I GS10201
Surr: BFB	587	15-244	S	%Rec	5	12/21/2023 12:59:00 PM	I GS10201
EPA METHOD 8021B: VOLATILES						Analyst	RAA
Benzene	ND	0.10		mg/Kg	5	12/21/2023 12:59:00 PM	R102015
Toluene	0.75	0.21		mg/Kg	5	12/21/2023 12:59:00 PM	I R102015
Ethylbenzene	6.1	0.21		mg/Kg	5	12/21/2023 12:59:00 PM	I R102015
Xylenes, Total	11	0.41		mg/Kg	5	12/21/2023 12:59:00 PM	1 R102015
Surr: 4-Bromofluorobenzene	256	39.1-146	S	%Rec	5	12/21/2023 12:59:00 PM	R102015

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- В Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range RL Reporting Limit

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L		tal Analysis Laborat	tory, Inc.	WO#:	2312C17 02-Jan-24
Client: Project:	EOG Crow F	Flats Fed Com 1			
Sample ID:	MB-79551	SampType: mblk	TestCode: EPA Method 300.0: Anions		
Client ID:	PBS	Batch ID: 79551	RunNo: 102021		
Prep Date:	12/21/2023	Analysis Date: 12/21/2023	SeqNo: 3765804 Units: mg/Kg		
Analyte		Result PQL SPK valu	e SPK Ref Val %REC LowLimit HighLimit %RPD	RPDLimit	Qual
Chloride		ND 1.5			

Sample ID:	SampT	SampType: Ics			TestCode: EPA Method 300.0: Anions						
Client ID: LCSS Batch ID: 79551				F	RunNo: 10	2021					
Prep Date:	12/21/2023	Analysis D	ate: 12	/21/2023	SeqNo: 3765805 Units: mg/Kg						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	93.7	90	110			

Qualifiers:

- Value exceeds Maximum Contaminant Level. *
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank В
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

SUMMART REFORT	WO#:	2312C17
Environmental Analysis Laboratory, Inc.		02-Jan-24

Client:EOGProject:Crow Fl	ats Fed Cor	n 1								
Sample ID: MB-79548	SampT	уре: МЕ	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS	Batch	n ID: 795	548	RunNo: 102022						
Prep Date: 12/21/2023	Analysis D	Date: 12	/21/2023	S	SeqNo: 37	764561	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.8		10.00		88.4	69	147			
Sample ID: LCS-79548	SampT	ype: LC	s	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: LCSS	Batch	n ID: 79 5	548	F	RunNo: 1(02022				
Prep Date: 12/21/2023	Analysis D	Date: 12	/21/2023	Ś	SeqNo: 37	764562	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	88.4	61.9	130			
Surr: DNOP	3.8		5.000		75.7	69	147			

Qualifiers:

- Value exceeds Maximum Contaminant Level. *
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank В
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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EOG

Client:

Project:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Crow Flats Fed Com 1

Released to Imaging: 7/9/2024 2:25:28 PM

Sample ID: 2.5ug gro Ics	SampType: LC	S	Tes	tCode: EF	PA Method	8015D: Gaso	line Range			
Client ID: LCSS	Batch ID: GS	5102015	F	RunNo: 1(02015					
Prep Date:	Analysis Date: 12	2/21/2023	SeqNo: 3764420			Units: mg/Kg				
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	24 5.0	25.00	0	96.9	70	130				
Surr: BFB	2200	1000		222	15	244				
Sample ID: mb	SampType: MI	BLK	Tes	tCode: EF	PA Method	8015D: Gaso	line Range			
Client ID: PBS	Batch ID: GS	6102015	F	RunNo: 1(02015					
Prep Date:	Analysis Date: 12	2/21/2023	Ş	SeqNo: 37	764421	Units: mg/K	g			
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	ND 5.0									
Surr: BFB	1100	1000		110	15	244				
Sample ID: Ics-79509	SampType: LC	S	Tes	tCode: EF	PA Method	8015D: Gaso	line Range			
Client ID: LCSS	Batch ID: GS	6102015	F	RunNo: 1(02015					
Prep Date: 12/19/2023	Analysis Date: 12	2/21/2023	Ş	SeqNo: 37	765287	Units: mg/K	g			
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	26 5.0	25.00	0	103	70	130				
Surr: BFB	2200	1000		217	15	244				

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank В
- Е Above Quantitation Range/Estimated Value

- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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WO#: 2312C17

02-Jan-24

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	2312C17
	02-Jan-24

Client:EOGProject:Crow Flats Fed Com 1

Sample ID: 100NG BTEX LCS						PA Method	8021B: Volati	les		
Client ID: LCSS	Batc	h ID: R1	02015	F	RunNo: 1(02015				
Prep Date:	Analysis [Date: 12	/21/2023	S	SeqNo: 37	764443	Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	96.3	70	130			
Toluene	0.98	0.050	1.000	0	97.8	70	130			
Ethylbenzene	1.0	0.050	1.000	0	100	70	130			
Xylenes, Total	3.0	0.10	3.000	0	101	70	130			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	39.1	146			
	1.0		1.000		104	39.1	140			
Sample ID: mb		Туре: МВ		Tes			8021B: Volati	les		
	Samp	Type: MB h ID: R1 (BLK			PA Method		les		
Sample ID: mb	Samp	h ID: R1	BLK 02015	F	tCode: EF	PA Method				
Sample ID: mb Client ID: PBS	Samp ⁻ Batc	h ID: R1	BLK 02015 1/21/2023	F	tCode: EF	PA Method	8021B: Volati		RPDLimit	Qual
Sample ID: mb Client ID: PBS Prep Date:	Samp Batc Analysis [h ID: R1 Date: 12	BLK 02015 1/21/2023	F	tCode: EF RunNo: 1(SeqNo: 37	PA Method 02015 764445	8021B: Volati Units: mg/K	g	RPDLimit	Qual
Sample ID: mb Client ID: PBS Prep Date: Analyte	Samp Batc Analysis I Result	h ID: R1 Date: 12 PQL	BLK 02015 1/21/2023	F	tCode: EF RunNo: 1(SeqNo: 37	PA Method 02015 764445	8021B: Volati Units: mg/K	g	RPDLimit	Qual
Sample ID: mb Client ID: PBS Prep Date: Analyte Benzene	Samp Batc Analysis I Result ND	h ID: R1 Date: 12 PQL 0.025	BLK 02015 1/21/2023	F	tCode: EF RunNo: 1(SeqNo: 37	PA Method 02015 764445	8021B: Volati Units: mg/K	g	RPDLimit	Qual
Sample ID: mb Client ID: PBS Prep Date: Analyte Benzene Toluene	Samp Batc Analysis I Result ND ND	h ID: R1 0 Date: 12 <u>PQL</u> 0.025 0.050	BLK 02015 1/21/2023	F	tCode: EF RunNo: 1(SeqNo: 37	PA Method 02015 764445	8021B: Volati Units: mg/K	g	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Seurofins Environment Testi	•	490 Ibuquerg 75 FAX:	Central, LL 1 Hawkins N we, NM 8710 505-345-410	C E S 19	San	nple Log-In Check List
Client Name: EOG	Work Order Numb	er: 231	2C17			RcptNo: 1
Received By: Tracy Casarrubias	12/21/2023 7:45:00	AM				
Completed By: Tracy Casarrubias	12/21/2023 8:00:14	АМ				
Reviewed By: SCM 12/21/23						
Chain of Custody						
1. Is Chain of Custody complete?		Yes		No	\checkmark	Not Present
2. How was the sample delivered?		<u>Cou</u>	rier			
Log In 3. Was an attempt made to cool the samples?		Yes		No		NA 🗌
4. Were all samples received at a temperature of	>0° C to 6.0°C	Yes		No		
5. Sample(s) in proper container(s)?		Yes		No		
6. Sufficient sample volume for indicated test(s)?		Yes	\checkmark	No		
7_{\cdot} Are samples (except VOA and ONG) properly	preserved?	Yes		No [
8. Was preservative added to bottles?		Yes		No	\checkmark	NA 🗌
9. Received at least 1 vial with headspace <1/4"	or AQ VOA?	Yes		No [NA 🗹
10. Were any sample containers received broken?	,	Yes		No		# of preserved
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes		No [bottles checked for pH: (<2 or >12 unless noted)
12. Are matrices correctly identified on Chain of Ci	istody?	Yes	\checkmark	No [Adjusted?
13. Is it clear what analyses were requested?		Yes	\checkmark	No		
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes	\checkmark	No [Checked by: 20 12/21/23
Special Handling (if applicable)						ŧ
15. Was client notified of all discrepancies with thi	s order?	Yes		No		NA 🗹
Person Notified:	Date:					
By Whom:	Via:	🗌 eMa	ail 🗌 Phor	ne 🗌	Fax	In Person
Regarding:					-	
Client Instructions: Mailing address.ph	one number and Ema	il/Fax ar	e missing o	n COC	- TM	C 12/21/23
16. Additional remarks:						
17. <u>Cooler Information</u> Cooler No Temp °C Condition Sea 1 2.8 Good Yes	Intact Seal No Yogi	Seal Da	ate Sig	gned B	y	

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178 fo 0 & 1988 av, samples submitted to Hall Environmental may be subconfinacted to other accredited laboratories.	Date: Time: Relinquished by:	Date: Time: Relinquisted by:				1 14:15 WES 23-03	1 14:10 1 WES23-02	23 14:05 SOII	Date Time Matrix Sample Name			Accreditation: Az Compliance C Accreditation: Az Compliance	Standard C Level 4 (Full Validation)	email or Fax#:	Phone #:		Mailing Address: UN file		Client: EOG (VOARX)	Chain-of-Custody Record
		Via: Vultur				£00		iæ	Container Preservative HEAL No. Type and # Type 23/2C/7	Cooler Temp(Including CF): 7.8 + Ø + 7.8 (°C)	plers:	Sampler: A. MONU	C. WYWM	Project Manager:	20K1 00X0V		CION FILITS FED LIM #1	Project Name:	D Standard X Rush Same day	Turn-Around Time:
This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report. M_{c}	Divect Bill EDG	Remarks: results to: Colixon@vertex.ca							BTEX 7 TPH:80 8081 Pe EDB (M PAHs b RCRA 8 C F, E 8260 (V 8270 (S Total C	MTI 15D estici letho by 83 3 Me 3r, N (OA) Semi-	GR des d 5 10 tals IO ₃	:O / D s/808; 604.1) or 82; 3 , NO; DA)	RO / M 2 PCE 70SIM 2, PO4	1RO 's S , SO	Analysis Requ	Tel. 505-345-3975 Fax 505-345-4107	4901 Hawkins NE - Albuquerque, NM 87109	www.hallenvironmental.com	ANALYSIS LABORATORY	HALL ENVIRONMENTAL

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Eurofins Environment Testing South Central, LLC 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

January 02, 2024 Chance Dixon EOG 105 South Fourth Street Artesia. NM 88210 TEL: FAX:

RE: Crow Flats Fed Com 1

OrderNo.: 2312D12

Dear Chance Dixon:

Eurofins Environment Testing South Central, LLC received 3 sample(s) on 12/22/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2312D12

Date Reported: 1/2/2024

CLIENT	: EOG	Client Sample ID: BES23-01	
Project:	Crow Flats Fed Com 1	Collection Date: 12/21/2023 9:45:00 AM	
Lab ID:	2312D12-001	Matrix: MEOH (SOIL) Received Date: 12/22/2023 7:45:00 AM	

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	SNS
Chloride	ND	60		mg/Kg	20	12/22/2023 2:05:02 PM	79565
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	DGH
Diesel Range Organics (DRO)	7700	190		mg/Kg	20	12/22/2023 12:34:35 PM	79574
Motor Oil Range Organics (MRO)	3200	940		mg/Kg	20	12/22/2023 12:34:35 PN	1 79574
Surr: DNOP	0	69-147	S	%Rec	20	12/22/2023 12:34:35 PM	1 79574
EPA METHOD 8015D: GASOLINE RANGE						Analyst	RAA
Gasoline Range Organics (GRO)	380	23		mg/Kg	5	12/22/2023 12:15:00 PN	GS10204
Surr: BFB	458	15-244	S	%Rec	5	12/22/2023 12:15:00 PM	I GS10204
EPA METHOD 8021B: VOLATILES						Analyst	RAA
Benzene	0.28	0.11		mg/Kg	5	12/22/2023 12:15:00 PM	BS10204
Toluene	0.85	0.23		mg/Kg	5	12/22/2023 12:15:00 PN	I BS10204
Ethylbenzene	9.6	0.23		mg/Kg	5	12/22/2023 12:15:00 PM	I BS10204
Xylenes, Total	16	0.45		mg/Kg	5	12/22/2023 12:15:00 PN	I BS10204
Surr: 4-Bromofluorobenzene	276	39.1-146	S	%Rec	5	12/22/2023 12:15:00 PM	BS10204

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- В Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits Р Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2312D12

Date Reported: 1/2/2024

CLIENT	: EOG	Client Sample ID: BES23-02
Project:	Crow Flats Fed Com 1	Collection Date: 12/21/2023 9:50:00 AM
Lab ID:	2312D12-002	Matrix: MEOH (SOIL) Received Date: 12/22/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	SNS
Chloride	ND	60		mg/Kg	20	12/22/2023 2:17:27 PM	79565
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS					Analyst	DGH
Diesel Range Organics (DRO)	6700	180		mg/Kg	20	12/22/2023 12:45:16 PM	1 79574
Motor Oil Range Organics (MRO)	2800	900		mg/Kg	20	12/22/2023 12:45:16 PM	1 79574
Surr: DNOP	0	69-147	S	%Rec	20	12/22/2023 12:45:16 PM	1 79574
EPA METHOD 8015D: GASOLINE RANGE						Analyst	RAA
Gasoline Range Organics (GRO)	490	22		mg/Kg	5	12/22/2023 12:37:00 PM	1 GS10204
Surr: BFB	537	15-244	S	%Rec	5	12/22/2023 12:37:00 PM	1 GS10204
EPA METHOD 8021B: VOLATILES						Analyst	RAA
Benzene	0.45	0.11		mg/Kg	5	12/22/2023 12:37:00 PM	1 BS10204
Toluene	0.34	0.22		mg/Kg	5	12/22/2023 12:37:00 PM	1 BS10204
Ethylbenzene	9.5	0.22		mg/Kg	5	12/22/2023 12:37:00 PM	1 BS10204
Xylenes, Total	8.3	0.43		mg/Kg	5	12/22/2023 12:37:00 PM	1 BS10204
Surr: 4-Bromofluorobenzene	322	39.1-146	S	%Rec	5	12/22/2023 12:37:00 PM	1 BS10204

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- В Analyte detected in the associated Method Blank Above Quantitation Range/Estimated Value
- Е J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2312D12

Date Reported: 1/2/2024

CLIENT	: EOG	Client Sample ID: BES23-03
Project:	Crow Flats Fed Com 1	Collection Date: 12/21/2023 9:55:00 AM
Lab ID:	2312D12-003	Matrix: MEOH (SOIL) Received Date: 12/22/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	SNS
Chloride	210	60		mg/Kg	20	12/22/2023 2:29:51 PM	79565
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS					Analyst	DGH
Diesel Range Organics (DRO)	10000	180		mg/Kg	20	12/22/2023 12:55:55 PN	1 79574
Motor Oil Range Organics (MRO)	4700	880		mg/Kg	20	12/22/2023 12:55:55 PN	1 79574
Surr: DNOP	0	69-147	S	%Rec	20	12/22/2023 12:55:55 PN	1 79574
EPA METHOD 8015D: GASOLINE RANGE						Analyst	RAA
Gasoline Range Organics (GRO)	440	21		mg/Kg	5	12/22/2023 12:59:00 PN	1 GS10204
Surr: BFB	628	15-244	S	%Rec	5	12/22/2023 12:59:00 PN	I GS10204
EPA METHOD 8021B: VOLATILES						Analyst	RAA
Benzene	0.33	0.10		mg/Kg	5	12/22/2023 12:59:00 PN	1 BS10204
Toluene	1.5	0.21		mg/Kg	5	12/22/2023 12:59:00 PN	I BS10204
Ethylbenzene	16	0.21		mg/Kg	5	12/22/2023 12:59:00 PN	I BS10204
Xylenes, Total	23	0.42		mg/Kg	5	12/22/2023 12:59:00 PN	I BS10204
Surr: 4-Bromofluorobenzene	352	39.1-146	S	%Rec	5	12/22/2023 12:59:00 PN	I BS10204

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- В Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits Sample pH Not In Range
- Р RL Reporting Limit

Page 3 of 7

12/22/2023

12/22/2023

Prep Date:

Sample ID: LCS-79565

LCSS

Analyte

Client ID:

Prep Date:

Analyte

Chloride

Chloride

Result

Result

14

ND

Analysis Date: 12/22/2023

PQL

SampType: LCS

Batch ID: 79565

Analysis Date: 12/22/2023

PQL

1.5

1.5

RPDLimit

RPDLimit

Qual

Qual

C		tal Analysis Laborator	ry, Inc.	WO#:	2312D12 02-Jan-24
Client: Project:	EOG Crow F	Plats Fed Com 1			
Sample ID: Client ID:	MB-79565 PBS	SampType: MBLK Batch ID: 79565	TestCode: EPA Method 300.0: Anions RunNo: 102051		

SPK value SPK Ref Val

15.00

SPK value SPK Ref Val %REC

0

SeqNo: 3768118

RunNo: 102051

SeqNo: 3768119

92.7

LowLimit

TestCode: EPA Method 300.0: Anions

LowLimit

90

%REC

Units: mg/Kg

Units: mg/Kg

110

HighLimit

%RPD

%RPD

HighLimit

Qualifiers:

- Value exceeds Maximum Contaminant Level. *
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- в Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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UKI	WO#:	2312D12	
ysis Laboratory, Inc.		02-Jan-24	

Client: EOG										
Project: Crow Fl	ats Fed Cor	n 1								
Sample ID: LCS-79574	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: LCSS	Batch	n ID: 79	574	F	RunNo: 102050					
Prep Date: 12/22/2023	Analysis D)ate: 12	2/22/2023	Ş	SeqNo: 37	766039	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	89.4	61.9	130			
Surr: DNOP	4.7		5.000		94.9	69	147			
Sample ID: MB-79574	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS	Batch	n ID: 79	574	F	RunNo: 1(02050				
Prep Date: 12/22/2023	Analysis D	ate: 12	2/22/2023	Ş	SeqNo: 37	766040	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.6		10.00		86.5	69	147			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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EOG

Client:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Project: Crow Fl	ats Fed Con	n 1								
Sample ID: 2.5ug gro Ics	SampT	ype: LC	s	Tes	stCode: El	PA Method	8015D: Gaso	line Range)	
Client ID: LCSS	Batch	ID: GS	102049	F	RunNo: 10	02049				
Prep Date:	Analysis D	ate: 12	/22/2023	:	SeqNo: 3	765997	Units: mg/#	٤g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	105	70	130			
Surr: BFB	2300		1000		231	15	244			
Sample ID: mb	SampT	уре: МВ	BLK	Tes	stCode: El	PA Method	8015D: Gaso	line Range)	
Client ID: PBS	Batch	ID: GS	102049	F	RunNo: 10	02049				
Prep Date:	Analysis D	ate: 12	/22/2023	:	SeqNo: 3	765998	Units: mg/k	٤g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		101	15	244			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank В
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL

- Reporting Limit

- WO#: 2312D12
 - 02-Jan-24

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	2312D
	02-Jan-2

Client:	EOG
Project:	Crow Flats Fed Com 1

Sample ID: 100ng btex lcs	Samp	Гуре: LC	S	TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: BS102049			RunNo: 102049						
Prep Date:	Analysis [Date: 12	/22/2023	Ş	SeqNo: 37	766013	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	101	70	130			
Toluene	1.0	0.050	1.000	0	103	70	130			
Ethylbenzene	1.1	0.050	1.000	0	106	70	130			
Xylenes, Total	3.2	0.10	3.000	0	107	70	130			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	39.1	146			
Sample ID: mb		Гуре: МВ		Tes			8021B: Volati	les		
	Samp	Гуре: МВ h ID: BS	BLK			PA Method		les		
Sample ID: mb	Samp	h ID: BS	BLK	F	tCode: EF	PA Method				
Sample ID: mb Client ID: PBS	Samp ⁻ Batc	h ID: BS	BLK 102049 /22/2023	F	tCode: EF	PA Method	8021B: Volati		RPDLimit	Qual
Sample ID: mb Client ID: PBS Prep Date:	Samp ⁻ Batc Analysis [h ID: BS Date: 12	BLK 102049 /22/2023	F	tCode: EF RunNo: 1(SeqNo: 37	PA Method 02049 766014	8021B: Volati Units: mg/K	g	RPDLimit	Qual
Sample ID: mb Client ID: PBS Prep Date: Analyte Benzene	Samp ⁻ Batc Analysis I Result	h ID: BS Date: 12 PQL	BLK 102049 /22/2023	F	tCode: EF RunNo: 1(SeqNo: 37	PA Method 02049 766014	8021B: Volati Units: mg/K	g	RPDLimit	Qual
Sample ID: mb Client ID: PBS Prep Date: Analyte	Samp Batc Analysis I Result ND	h ID: BS Date: 12 PQL 0.025	BLK 102049 /22/2023	F	tCode: EF RunNo: 1(SeqNo: 37	PA Method 02049 766014	8021B: Volati Units: mg/K	g	RPDLimit	Qual
Sample ID: mb Client ID: PBS Prep Date: Analyte Benzene Toluene	Samp ⁻ Batc Analysis I Result ND ND	h ID: BS Date: 12 PQL 0.025 0.050	BLK 102049 /22/2023	F	tCode: EF RunNo: 1(SeqNo: 37	PA Method 02049 766014	8021B: Volati Units: mg/K	g	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank В
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- Reporting Limit RL

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Environment	Testin

Eurofins Environment Testing South Central, LLC 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: EOG Work Order Numb	er: 2312D12		RcptNo: 1	
Received By: Tracy Casarrubias 12/22/2023 7:45:00	АМ			
Completed By: Tracy Casarrubias 12/22/2023 8:14:37	AM			
Reviewed By: CM 12/22/23				
Chain of Custody				
1. Is Chain of Custody complete?	Yes	No 🗹	Not Present	
2. How was the sample delivered?	Courier			
Log In				
3. Was an attempt made to cool the samples?	Yes 🗹	Νο	NA 🗌	
4. Were all samples received at a temperature of $>0^{\circ}$ C to 6.0°C	Yes 🗹	No 🗌		
5. Sample(s) in proper container(s)?	Yes 🗹	No 🗌		
6. Sufficient sample volume for indicated test(s)?	Yes 🗹	Νο		
7. Are samples (except VOA and ONG) properly preserved?	Yes 🔽	No 🗌		
8. Was preservative added to bottles?	Yes 🗌	No 🗹	NA 🗌	
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes	No 🗌	NA 🗹	
10. Were any sample containers received broken?	Yes 🗌	No 🗹 🏼 🙀	of preserved	
44		b	ottles checked or pH:	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🗹	No 🛄 fo	(<2 or >12 unless not	ted)
12. Are matrices correctly identified on Chain of Custody?	Yes 🗹	No 🗌	Adjusted?	-
13. Is it clear what analyses were requested?	Yes 🗹	No 🗌	-un	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🗹	No 🗌	Checked by: 12	23
Special Handling (if applicable)				
15. Was client notified of all discrepancies with this order?	Yes 🗌	No 🗌	NA 🗹	
Person Notified: Date:				
By Whom: Via:	eMail	Phone 🗌 Fax 📋] In Person	
Regarding:				
Client Instructions: Mailing address,phone number, and En	nail/Fax are mis	sing on COC- TMC	12/22/23	
16. Additional remarks:				
17. <u>Cooler Information</u>	10			
Cooler No Temp °C Condition Seal Intact Seal No	Seal Date	Signed By		
1 6.0 Good Yes Morty				

$I\!+\!$	Date: Time: Relinguished by:			DDC020	ALL	1 9:47 SOIL	Date Time Matrix Sample Name	EDD (Type)	Accreditation:	Standard I Level 4 (Full Validation)	email or Fax#:	Phone #:		Mailing Address: ON File		Client: EDG (Vertex)	Chain-of-Custody Record
ubcontracted to other accredited laboratories. This serves as notice of t	Received by: Via: Date Time				- 5	ÍQ I	Cooler Temp(Including CF): 5.8 +0.2 - (,0 ('C)) Container Type and # Type 73/2D/2		Sampler: A. MONU On Ice: VYes INO MORT	C. DINO	Project Manager:	130 t 100000	Project #	Whom Flours Fed Com 1	Project Name:	Standard & Rush SOM day	Turn-Around Time:
The for of person and the submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be appropriated on the analytical report of parabolic and the providence of the serves as notice of this possibility. Any sub-contracted data will be appropriated on the analytical report of parabolic and the providence of the possibility.	Remarks: results to: Cdixon@vertex.ca				- >	׫	BTEX) M TPH:8015I 8081 Pest EDB (Meth PAHs by 8 RCRA 8 M Cl) F, Br, 8260 (VO/ 8270 (Sen Total Colif	icida nod 331(leta NC A) ni-V	RO / D es/808 504.1)) or 82 ls D ₃ , NO OA)	2 PCE	/IRO B's IS , SC	Analysis Requ	Tel. 505-345-3975 Fax 505-345-4107	4901 Hawkins NE - Albuquerque, NM 87109	www.hallenvironmental.com	ANALYSIS LABORATORY	HALL ENVIRONMENTAL

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Environment Testing

Eurofins Environment Testing South Central, LLC 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

January 11, 2024 Chance Dixon EOG 105 South Fourth Street Artesia, NM 88210 TEL: FAX:

RE: Crow Flats Fed Com 1

OrderNo.: 2401129

Dear Chance Dixon:

Eurofins Environment Testing South Central, LLC received 1 sample(s) on 1/4/2024 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2401129

Date Reported: 1/11/2024

CLIENT	EOG	С	lient Sample ID: WES23-02
Project:	Crow Flats Fed Com 1		Collection Date: 12/28/2023 11:30:00 AM
Lab ID:	2401129-001	Matrix: MEOH (SOIL)	Received Date: 1/4/2024 7:20:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	ксв
Chloride	870	60	mg/Kg	20	1/4/2024 12:51:38 PM	79738
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst	: PRD
Diesel Range Organics (DRO)	37	9.7	mg/Kg	1	1/4/2024 11:29:31 AM	79731
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	1/4/2024 11:29:31 AM	79731
Surr: DNOP	104	69-147	%Rec	1	1/4/2024 11:29:31 AM	79731
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: JJP
Gasoline Range Organics (GRO)	ND	4.1	mg/Kg	1	1/4/2024 11:12:34 AM	GS10223
Surr: BFB	104	15-244	%Rec	1	1/4/2024 11:12:34 AM	GS10223
EPA METHOD 8021B: VOLATILES					Analyst	: JJP
Benzene	ND	0.021	mg/Kg	1	1/4/2024 11:12:34 AM	BS10223
Toluene	ND	0.041	mg/Kg	1	1/4/2024 11:12:34 AM	BS10223
Ethylbenzene	ND	0.041	mg/Kg	1	1/4/2024 11:12:34 AM	BS10223
Xylenes, Total	ND	0.082	mg/Kg	1	1/4/2024 11:12:34 AM	BS10223
Surr: 4-Bromofluorobenzene	94.3	39.1-146	%Rec	1	1/4/2024 11:12:34 AM	BS10223

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

* Value exceeds Maximum Contaminant Level. **Qualifiers:**

- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- В Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Result

14

PQL

1.5

RPDLimit

Qual

%RPD

L.		ntal Analysis L	ahorato	rv. Inc.				WO#:	2401129 11-Jan-24
				1 , , 1110					11-Jan-24
Client:	EOG								
Project:	Crow	Flats Fed Com 1							
Sample ID:	MB-79738	SampType: mb	olk	Test	Code: EPA Met	hod 300.0: Anions	3		
Client ID:	PBS	Batch ID: 79	738	R	unNo: 102237				
Prep Date:	1/4/2024	Analysis Date: 1/	4/2024	S	eqNo: 3775192	Units: mg/K	g		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC LowL	imit HighLimit	%RPD	RPDLimit	Qual
Chloride		ND 1.5							
Sample ID:	LCS-79738	SampType: Ics	;	Test	Code: EPA Met	hod 300.0: Anions	6		
Client ID:	LCSS	Batch ID: 79	738	R	unNo: 102237				
Prep Date:	1/4/2024	Analysis Date: 1/	4/2024	S	eqNo: 3775193	Units: mg/K	g		

SPK value SPK Ref Val %REC

0

92.8

15.00

LowLimit

90

HighLimit

110

Qualifiers:

Analyte

Chloride

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank В
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit
- Released to Imaging: 7/9/2024 2:25:28 PM

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L.		WO#: 240112	9
Hall Env	vironmental Analysis Laboratory, Inc.	11-Jan-24	1
Client:	EOG		-

Sample ID: LCS-79731	SampT	Гуре: LC	S	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: LCSS	Batcl	h ID: 79 7	731	F	RunNo: 1)2236				
Prep Date: 1/4/2024	Analysis E	Date: 1/-	4/2024	S	SeqNo: 3	74135	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	10	50.00	0	106	61.9	130			
O DUOD										
Surr: DNOP	5.7		5.000		115	69	147			
Sample ID: MB-79731	-	Гуре: МЕ		Tes			147 8015M/D: Die	sel Range	Organics	
	SampT	Гуре: МЕ h ID: 79 7	BLK			PA Method		sel Range	Organics	
Sample ID: MB-79731 Client ID: PBS	SampT	h ID: 79 7	BLK 731	F	tCode: EF	PA Method		U	Organics	
Sample ID: MB-79731 Client ID: PBS	Samp1 Batcl	h ID: 79 7	BLK 731 4/2024	F	stCode: EF	PA Method	8015M/D: Die	U	Organics RPDLimit	Qual
Sample ID: MB-79731 Client ID: PBS Prep Date: 1/4/2024	Samp Batcl Analysis [h ID: 79 7 Date: 1/ 4	BLK 731 4/2024	F	atCode: EF RunNo: 10 SeqNo: 3	PA Method 02236 774136	8015M/D: Die Units: mg/K	g	U	Qual
Sample ID: MB-79731 Client ID: PBS Prep Date: 1/4/2024 Analyte	SampT Batcl Analysis I Result	h ID: 79 7 Date: 1/ 4 PQL	BLK 731 4/2024	F	atCode: EF RunNo: 10 SeqNo: 3	PA Method 02236 774136	8015M/D: Die Units: mg/K	g	U	Qual

Qualifiers:

- Value exceeds Maximum Contaminant Level. *
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- В Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit
- Released to Imaging: 7/9/2024 2:25:28 PM
| | WO#: | 2401129 |
|---|------|-----------|
| l Environmental Analysis Laboratory, Inc. | | 11-Jan-24 |

Client:	EOG										
Project:	Crow Fla	ats Fed Cor	n 1								
Sample ID: 2.5ug	gro Ics	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015D: Gaso	line Range	•	
Client ID: LCSS		Batch	n ID: GS	102232	F	RunNo: 1()2232				
Prep Date:		Analysis D	Date: 1/-	4/2024	\$	SeqNo: 37	73960	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organic	cs (GRO)	26	5.0	25.00	0	104	70	130			
Surr: BFB		2100		1000		212	15	244			
Sample ID: mb		SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015D: Gaso	line Range)	
Client ID: PBS		Batch	n ID: GS	102232	F	RunNo: 1()2232				
Prep Date:		Analysis D	Date: 1/	4/2024	Ş	SeqNo: 37	73961	Units: mg/k	٤g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organic	cs (GRO)	ND	5.0								
Surr: BFB		1000		1000		102	15	244			

Qualifiers:

- Value exceeds Maximum Contaminant Level. *
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- В Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit
- Released to Imaging: 7/9/2024 2:25:28 PM

EOG

Client:

Project:

QC SUMMARY REPORT

Crow Flats Fed Com 1

WO#:	2401129
	11-Jan-24

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Hall Environmental Analysis Laboratory, Inc.

Sample ID: 100ng btex lcs	Samp	Гуре: LC	S	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: LCSS	Batc	h ID: BS	102232	F	RunNo: 1(02232				
Prep Date:	Analysis I	Date: 1/4	4/2024	5	SeqNo: 37	773965	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	90.7	70	130			
Toluene	0.92	0.050	1.000	0	91.9	70	130			
Ethylbenzene	0.94	0.050	1.000	0	93.8	70	130			
Xylenes, Total	2.8	0.10	3.000	0	94.4	70	130			
Surr: 4-Bromofluorobenzene	0.94		1.000		93.8	39.1	146			
Sample ID: mb	Samp	Гуре: МЕ	BLK	Tes	tCode: F	PA Method	8021B: Volati	امد		
		••					OULTE. VOIUL	103		
Client ID: PBS	Batc	h ID: BS			RunNo: 1					
Client ID: PBS Prep Date:	Batc Analysis I	-	102232	F		02232	Units: mg/K			
		-	102232	F	RunNo: 1(02232			RPDLimit	Qual
Prep Date:	Analysis I	Date: 1/4	102232 4/2024	F	RunNo: 1(SeqNo: 3 7)2232 773966	Units: mg/K	g	RPDLimit	Qual
Prep Date: Analyte	Analysis I Result	Date: 1/4 PQL	102232 4/2024	F	RunNo: 1(SeqNo: 3 7)2232 773966	Units: mg/K	g	RPDLimit	Qual
Prep Date: Analyte Benzene	Analysis I Result ND	Date: 1/4 PQL 0.025	102232 4/2024	F	RunNo: 1(SeqNo: 3 7)2232 773966	Units: mg/K	g	RPDLimit	Qual
Prep Date: Analyte Benzene Toluene	Analysis I Result ND ND	Date: 1/4 PQL 0.025 0.050	102232 4/2024	F	RunNo: 1(SeqNo: 3 7)2232 773966	Units: mg/K	g	RPDLimit	Qual

Qualifiers:

- Value exceeds Maximum Contaminant Level. *
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank В
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Page 147 of 341

Eurofins Environment Testing South Central, LLC 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

	Website: www.l	allenvironmeni	al.com		
Client Name: EOG	Work Order Numbe	er: 2401129		RcptNo:	1
Received By: Tracy Casarrubias	1/4/2024 7:20:00 AM				
Completed By: Tracy Casarrubias	1/4/2024 7:35:13 AM				
Reviewed By: CMC	1/4/24				
Chain of Custody					
1. Is Chain of Custody complete?		Yes	No 🗹	Not Present	
2. How was the sample delivered?		Courier			
Log In		_			
3. Was an attempt made to cool the samples?		Yes 🔽	No	NA	
4. Were all samples received at a temperature of	f >0° C to 6.0°C	Yes 🗹	No		
5. Sample(s) in proper container(s)?		Yes 🔽	No 🗌		
6. Sufficient sample volume for indicated test(s)?	,	Yes 🗹	No 🗌		
7_{\cdot} Are samples (except VOA and ONG) properly	preserved?	Yes 🗹	No		
8. Was preservative added to bottles?		Yes 🗌	No 🗹	NA 🗌	
9. Received at least 1 vial with headspace <1/4"	for AQ VOA?	Yes	No	NA 🔽	
10. Were any sample containers received broken	?	Yes	No 🗹	# of preserved	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No 🗌		12 unless noted)
12. Are matrices correctly identified on Chain of C	ustody?	Yes 🗹	No 🗌	Adjusted?	
13. Is it clear what analyses were requested?		Yes 🗹	No		1. 101-
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No	Checked by:	11/19/2
Special Handling (if applicable)					
15. Was client notified of all discrepancies with th	is order?	Yes	No 🗌	NA 🗹	
Person Notified:	Date:				
By Whom:	Via:	🗌 eMail 🗌	Phone 🗌 Fax	In Person	
Regarding:					
Client Instructions: Mailing address, ph	none number and Ema	il/Fax are mis	sing on COC- TM	C 1/4/24	
16. Additional remarks:					
17. Cooler Information					
Cooler No Temp °C Condition Sea	al Intact Seal No	Seal Date	Signed By		
1 3.8 Good Yes	Yogi				

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Client: E.O.G. (WYAA) Mailing Address: (M. Fi U Phone #: email or Fax#: ava Corpeted (Full Validation) accreditation: a Az Compliance Standard bac Corber Dete Time Matrix Sample Name (17ye) Date Time Matrix Sample Name (12yd) 11:30 (0:1 WES23-02) (12yd) 11:30 (0:1 WES23-02) (12yd) 11:30 (0:1 WES23-02) (12yd) 11:30 (0:1 WES23-02)	Image: Standard Erkush Some Standard Erkush Some Some Some Some Some Some Some Some	All A
Date: Time: Relinquished by: 1/3 9/15 Control Date: Relinquished by:	Received by: Via: Date Time MMAJJJJJJJJJ Received by: Via: Couline Date Time 1/4/24 3-20	Remarks: Results to Colixon Quertex. La Direct Bill EOG

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January 05, 2024

CHANCE DIXON VERTEX RESOURCE GROUP 420 SOUTH MAIN, SUITE 202 TULSA, OK 74103 RE: CROW FLATS FED COM 1

Enclosed are the results of analyses for samples received by the laboratory on 01/05/24 11:02.

applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html. Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Haloacetic Acids (HAA-5)	Total Trihalomethanes (TTHM)	Regulated VOCs (V1, V2, V3)
Method EPA 552.2	Method EPA 524.2	Method EPA 524.4

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

VERTEX RESOURCE GROUP CHANCE DIXON 420 SOUTH MAIN, SUITE 202 TULSA OK, 74103 Fax To: NA

g Date: 01/04/2024	0)	Sampling Condition: Cool & Intact	Received By: Shalyn Rodriguez	
		CROW FLATS FED COM 1 Sampling		
Received: 01/05/2024			Project Number: 23E - 05	Project Location: EOG

Sample ID: WES 23 - 03 0-4.0' (H240045-01)	(H24004)	5-01)							
Chloride, SM4500Cl-B	mg/kg	6	Analyzed By: AC	By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	01/05/2024	DN	416	104	400	3.77	
TPH 8015M	mg/kg	Đ	Analyzed By: MS	l By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/05/2024	DN	181	90.7	200	1.32	
DRO >C10-C28*	<10.0	10.0	01/05/2024	DN	191	95.4	200	0.846	
EXT DR0 >C28-C36	<10.0	10.0	01/05/2024	DN					
Surrogate: 1-Chlorooctane	102 %	48.2-134							
Surrogate: 1-Chlorooctadecane	120 %	49. I-148							
Volatile 8260	mg/kg	Ð	Analyzed By: MS	I By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Methyl tert-butyl ether	<0.050	0.050	01/05/2024	DN	0.944	94.4	1.00	1.16	
Benzene*	<0.025	0.025	01/05/2024	DN	0.461	92.3	0.500	3.61	
Toluene*	<0.025	0.025	01/05/2024	DN	0.460	91.9	0.500	5.49	
Ethylbenzene*	<0.025	0.025	01/05/2024	DN	0.486	97.2	0.500	3.49	
m+p - Xylene*	<0.050	0.050	01/05/2024	DN	0.993	99.3	1.00	3.54	
o-Xylene*	<0.025	0.025	01/05/2024	DN	0.468	93.6	0.500	3.56	
1,3,5-Trimethylbenzene*	<0.025	0.025	01/05/2024	DN	0.483	9.96	0.500	6.05	
1,2,4-Trimethylbenzene*	<0.025	0.025	01/05/2024	QN	0.491	98.2	0.500	3.09	
Surrogate: Toluene-d8	96.7 %	90.4-109							
Surrogate: 4-Bromofluorobenzene	97.6%	82.5-117							

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*=Accredited Analyte

N. K. Reg V

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

VERTEX RESOURCE GROUP CHANCE DIXON 420 SOUTH MAIN, SUITE 202 TULSA OK, 74103 Fax To: NA

Sample ID: WES 23 - 04 0-4.0')' (H240045-02)	5-02)							
Chloride, SM4500CI-B	mg/kg	kg	Analyzed By: AC	By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	01/05/2024	ND	416	104	400	3.77	
TPH 8015M	mg/kg	kg	Analyzed By: MS	By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/05/2024	DN	181	90.7	200	1.32	
DRO >C10-C28*	86.6	10.0	01/05/2024	DN	191	95.4	200	0.846	
EXT DR0 >C28-C36	16.7	10.0	01/05/2024	DN					
Surrogate: 1-Chlorooctane	105 %	6 48.2-134							
Surrogate: 1-Chlorooctadecane	124 %	6 49.1-148							
Volatile 8260	mg/kg	kg	Analyzed By: MS	By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Methyl tert-butyl ether	<0.050	0.050	01/05/2024	ND	0.944	94.4	1.00	1.16	
Benzene*	<0.025	0.025	01/05/2024	ND	0.461	92.3	0.500	3.61	
Toluene*	<0.025	0.025	01/05/2024	ND	0.460	91.9	0.500	5.49	
Ethylbenzene*	<0.025	0.025	01/05/2024	DN	0.486	97.2	0.500	3.49	
m+p - Xylene*	<0.050	0.050	01/05/2024	ND	0.993	99.3	1.00	3.54	
o-Xylene*	<0.025	0.025	01/05/2024	QN	0.468	93.6	0.500	3.56	
1,3,5-Trimethylbenzene*	<0.025	0.025	01/05/2024	QN	0.483	96.6	0.500	6.05	
1,2,4-Trimethylbenzene*	<0.025	0.025	01/05/2024	DN	0.491	98.2	0.500	3.09	
Surrogate: Toluene-d8	96.5 %	6 90.4-109							
Surrogate: 4-Bromofluorobenzene	97.7 %	6 82.5-117							

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

CHANCE DIXON 420 SOUTH MAIN, SUITE 202 TULSA OK, 74103 VERTEX RESOURCE GROUP AA Fax To:

Sampling Date: 01/03/2024	Sampling Type: Soil	Sampling Condition: Cool & Intact	Sample Received By: Shalyn Rodriguez	
01/05/2024	01/05/2024	CROW FLATS FED COM 1	23E - 05855	EOG
Received:	Reported:	Project Name:	Project Number:	Project Location:

69 Ц 4' (H) ę 5 3 MED -Ŵ,

Sample ID: WES 23 - 01 0-4' ((H240045-03)	-03)							
Chloride, SM4500CI-B	mg/kg	kg	Analyzed By: AC	By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	01/05/2024	ND	416	104	400	3.77	
TPH 8015M	mg/kg	kg	Analyzed By: MS	By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/05/2024	ND	181	90.7	200	1.32	
DRO >C10-C28*	<10.0	10.0	01/05/2024	ND	191	95.4	200	0.846	
EXT DR0 >C28-C36	<10.0	10.0	01/05/2024	DN					
Surrogate: 1-Chlorooctane	88.2 %	% 48.2-134							
Surrogate: 1-Chlorooctadecane	101 %	% 49.1-148	~						
Volatile 8260	mg/kg	kg	Analyzed By: MS	By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Methyl tert-butyl ether	<0.050	0.050	01/05/2024	QN	0.944	94.4	1.00	1.16	
Benzene*	<0.025	0.025	01/05/2024	DN	0.461	92.3	0.500	3.61	
Toluene*	<0.025	0.025	01/05/2024	DN	0.460	91.9	0.500	5.49	
Ethylbenzene*	<0.025	0.025	01/05/2024	ND	0.486	97.2	0.500	3.49	
m+p - Xylene*	<0.050	0.050	01/05/2024	ND	0.993	99.3	1.00	3.54	
o-Xylene*	<0.025	0.025	01/05/2024	DN	0.468	93.6	0.500	3.56	
1,3,5-Trimethylbenzene*	<0.025	0.025	01/05/2024	ND	0.483	96.6	0.500	6.05	
1,2,4-Trimethylbenzene*	0.046	0.025	01/05/2024	DN	0.491	98.2	0.500	3.09	
Surrogate: Toluene-d8	96.9 %	% 90.4-109							
Surrogate: 4-Bromofluorobenzene	97.6 %	% 82.5-117							

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Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 6 of 6

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476	BILL TO		ANALYSIS REQUEST	
ompany Name: Verfex					
roject Manager: Chance Dixa	ph	P.O. #:	12		
3101 Road Dr		Company: EOG	117 BE/ TMB'S (8021) (URO/ DRO/ ARO)		
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ity.		Address: /	18		
Phone #: 575-725-5001 Fa	roject Owner: Churc Se	He City:	48		
Project #: 232-25855 Project Name: Crow Flats Fea	1 (nn #1	State: Zip:	2 6		
	Com 1+	Phone #2	B (URO/		
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Sampler Name: AUSTIN MARRI		TRIX PRESERV. SAMPLI	NG 2		
FOR LAB USE ONLY Sample I.D. Lab I.D. Sample I.D. HA40045	0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0	× 1-4-24			
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PLEASE NOTE: Liability and Damages. Cardina's liability and client analyses. All claims including those for negligence and any other ca	's exclusive remedy for any claim arising whether b	sed in contract or tort, shall be limited to the amount paid de in writing and received by Cardinal within 30 days after	completion of the applicable		
PLEASE NOTE: Liability and Damages. Caridinal's liability and client analyses. All claims including those for negligence and any other ca- service. In no event shall Cardinal be liable for incidental or conseque	use whatsoever shall be without limitation, busines ental damages, including without limitation, busines because been order by Cardinal, regardless of who	her such claim is based upon any of the above stated real	sons or otherwise.	No Add'l Phone #:	
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Denvereu syr tester	3-82 Co	Yes Pres	Thermometer ID #113 Correction Factor 45°C S		
Sampler - UPS - Bus - Other: Cor	rrected Temp. *C		nges to celey.keene@card		

† Cardinal cannot accept verbal changes. Please en



Environment Testing

Eurofins Environment Testing South Central, LLC 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

January 29, 2024 Chance Dixon EOG 105 South Fourth Street Artesia, NM 88210 TEL: FAX:

RE: Crow Flats Fed Com 1

OrderNo.: 2401656

Dear Chance Dixon:

Eurofins Environment Testing South Central, LLC received 9 sample(s) on 1/17/2024 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2401656

Date Reported: 1/29/2024

CLIENT: EOG		Cli	ent Sample II): B(G24-01 0'	
Project: Crow Flats Fed Com 1		0	Collection Date	e: 1/1	12/2024 2:00:00 PM	
Lab ID: 2401656-001	Matrix: SOIL		Received Date	e: 1/1	17/2024 8:10:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: SNS
Chloride	ND	60	mg/Kg	20	1/18/2024 4:04:13 PM	79973
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS				Analys	t: DGH
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	1/19/2024 12:16:27 PM	79997
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	1/19/2024 12:16:27 PM	79997
Surr: DNOP	79.1	69-147	%Rec	1	1/19/2024 12:16:27 PM	79997
EPA METHOD 8015D: GASOLINE RAM	IGE				Analys	t: JJP
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	1/19/2024 12:55:44 AM	79963
Surr: BFB	93.6	15-244	%Rec	1	1/19/2024 12:55:44 AM	79963
EPA METHOD 8021B: VOLATILES					Analys	t: JJP
Benzene	ND	0.025	mg/Kg	1	1/19/2024 12:55:44 AM	79963
Toluene	ND	0.050	mg/Kg	1	1/19/2024 12:55:44 AM	79963
Ethylbenzene	ND	0.050	mg/Kg	1	1/19/2024 12:55:44 AM	79963
Xylenes, Total	ND	0.099	mg/Kg	1	1/19/2024 12:55:44 AM	79963
Surr: 4-Bromofluorobenzene	85.9	39.1-146	%Rec	1	1/19/2024 12:55:44 AM	79963

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- В Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2401656

Date Reported: 1/29/2024

CLIENT: EOG		Cli	ent Sample II): B(G24-01 2'	
Project: Crow Flats Fed Com 1		C	Collection Date	e: 1/1	12/2024 2:05:00 PM	
Lab ID: 2401656-002	Matrix: SOIL		Received Date	e: 1/1	17/2024 8:10:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: SNS
Chloride	610	60	mg/Kg	20	1/18/2024 4:19:22 PM	79973
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analys	t: PRD
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	1/18/2024 8:15:20 PM	79964
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	1/18/2024 8:15:20 PM	79964
Surr: DNOP	74.7	69-147	%Rec	1	1/18/2024 8:15:20 PM	79964
EPA METHOD 8015D: GASOLINE RANG	GE				Analys	t: JJP
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	1/19/2024 1:19:25 AM	79963
Surr: BFB	90.9	15-244	%Rec	1	1/19/2024 1:19:25 AM	79963
EPA METHOD 8021B: VOLATILES					Analys	t: JJP
Benzene	ND	0.025	mg/Kg	1	1/19/2024 1:19:25 AM	79963
Toluene	ND	0.050	mg/Kg	1	1/19/2024 1:19:25 AM	79963
Ethylbenzene	ND	0.050	mg/Kg	1	1/19/2024 1:19:25 AM	79963
Xylenes, Total	ND	0.10	mg/Kg	1	1/19/2024 1:19:25 AM	79963
Surr: 4-Bromofluorobenzene	83.9	39.1-146	%Rec	1	1/19/2024 1:19:25 AM	79963

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- В Analyte detected in the associated Method Blank

- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2401656

Date Reported: 1/29/2024

CLIENT: EOG		Clie	ent Sample II): B(624-02 0'	
Project: Crow Flats Fed Com 1		С	ollection Date	e: 1/1	2/2024 2:10:00 PM	
Lab ID: 2401656-003	Matrix: SOIL	I	Received Dat	e: 1/1	7/2024 8:10:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: SNS
Chloride	ND	60	mg/Kg	20	1/18/2024 5:35:09 PM	79973
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS				Analys	t: PRD
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	1/18/2024 8:26:00 PM	79964
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	1/18/2024 8:26:00 PM	79964
Surr: DNOP	72.2	69-147	%Rec	1	1/18/2024 8:26:00 PM	79964
EPA METHOD 8015D: GASOLINE RA	ANGE				Analys	t: JJP
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	1/19/2024 1:43:00 AM	79963
Surr: BFB	92.0	15-244	%Rec	1	1/19/2024 1:43:00 AM	79963
EPA METHOD 8021B: VOLATILES					Analys	t: JJP
Benzene	ND	0.025	mg/Kg	1	1/19/2024 1:43:00 AM	79963
Toluene	ND	0.050	mg/Kg	1	1/19/2024 1:43:00 AM	79963
Ethylbenzene	ND	0.050	mg/Kg	1	1/19/2024 1:43:00 AM	79963
Xylenes, Total	ND	0.10	mg/Kg	1	1/19/2024 1:43:00 AM	79963
Surr: 4-Bromofluorobenzene	85.5	39.1-146	%Rec	1	1/19/2024 1:43:00 AM	79963

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- В Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits Р Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2401656

Date Reported: 1/29/2024

CLIENT: EOG		Cli	ent Sample II): BC	624-02 2'	
Project: Crow Flats Fed Com 1		C	ollection Date	e: 1/1	2/2024 2:15:00 PM	
Lab ID: 2401656-004	Matrix: SOIL]	Received Date	e: 1/1	7/2024 8:10:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: SNS
Chloride	ND	60	mg/Kg	20	1/18/2024 5:50:19 PM	79973
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analys	t: PRD
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	1/18/2024 8:36:39 PM	79964
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	1/18/2024 8:36:39 PM	79964
Surr: DNOP	106	69-147	%Rec	1	1/18/2024 8:36:39 PM	79964
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: JJP
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	1/19/2024 2:06:32 AM	79963
Surr: BFB	91.5	15-244	%Rec	1	1/19/2024 2:06:32 AM	79963
EPA METHOD 8021B: VOLATILES					Analys	t: JJP
Benzene	ND	0.025	mg/Kg	1	1/19/2024 2:06:32 AM	79963
Toluene	ND	0.050	mg/Kg	1	1/19/2024 2:06:32 AM	79963
Ethylbenzene	ND	0.050	mg/Kg	1	1/19/2024 2:06:32 AM	79963
Xylenes, Total	ND	0.10	mg/Kg	1	1/19/2024 2:06:32 AM	79963
Surr: 4-Bromofluorobenzene	85.1	39.1-146	%Rec	1	1/19/2024 2:06:32 AM	79963

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- В Analyte detected in the associated Method Blank

- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Surr: 4-Bromofluorobenzene

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2401656

Date Reported: 1/29/2024

1/19/2024 2:30:02 AM

79963

CLIENT: EOG		Cli	ent Sample II	D: BC	624-02 4'	
Project: Crow Flats Fed Com 1		0	Collection Dat	e: 1/1	2/2024 2:20:00 PM	
Lab ID: 2401656-005	Matrix: SOIL		Received Dat	e: 1/1	7/2024 8:10:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: SNS
Chloride	100	60	mg/Kg	20	1/18/2024 6:05:27 PM	79973
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analys	t: PRD
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	1/18/2024 8:47:16 PM	79964
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	1/18/2024 8:47:16 PM	79964
Surr: DNOP	99.8	69-147	%Rec	1	1/18/2024 8:47:16 PM	79964
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: JJP
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	1/19/2024 2:30:02 AM	79963
Surr: BFB	93.2	15-244	%Rec	1	1/19/2024 2:30:02 AM	79963
EPA METHOD 8021B: VOLATILES					Analys	t: JJP
Benzene	ND	0.025	mg/Kg	1	1/19/2024 2:30:02 AM	79963
Toluene	ND	0.050	mg/Kg	1	1/19/2024 2:30:02 AM	79963
Ethylbenzene	ND	0.050	mg/Kg	1	1/19/2024 2:30:02 AM	79963
Xylenes, Total	ND	0.099	mg/Kg	1	1/19/2024 2:30:02 AM	79963

87.0

39.1-146

%Rec

1

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- В Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits Sample pH Not In Range
- Р RL Reporting Limit

Surr: 4-Bromofluorobenzene

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2401656

Date Reported: 1/29/2024

1/19/2024 2:53:35 AM

79963

CLIENT: EOG		Cl	ient Sample II): BC	G24-02 4.5'	
Project: Crow Flats Fed Com 1		(Collection Dat	e: 1/1	2/2024 2:25:00 PM	
Lab ID: 2401656-006	Matrix: SOIL		Received Dat	e: 1/1	7/2024 8:10:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: SNS
Chloride	120	60	mg/Kg	20	1/18/2024 6:20:36 PM	79973
EPA METHOD 8015M/D: DIESEL RAI	NGE ORGANICS				Analys	t: PRD
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	1/18/2024 8:57:52 PM	79964
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	1/18/2024 8:57:52 PM	79964
Surr: DNOP	78.3	69-147	%Rec	1	1/18/2024 8:57:52 PM	79964
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: JJP
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	1/19/2024 2:53:35 AM	79963
Surr: BFB	93.2	15-244	%Rec	1	1/19/2024 2:53:35 AM	79963
EPA METHOD 8021B: VOLATILES					Analys	t: JJP
Benzene	ND	0.024	mg/Kg	1	1/19/2024 2:53:35 AM	79963
Toluene	ND	0.047	mg/Kg	1	1/19/2024 2:53:35 AM	79963
Ethylbenzene	ND	0.047	mg/Kg	1	1/19/2024 2:53:35 AM	79963
Xylenes, Total	ND	0.094	mg/Kg	1	1/19/2024 2:53:35 AM	79963

87.4

39.1-146

%Rec

1

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- В Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2401656

Date Reported: 1/29/2024

CLIENT: EOG	Client Sample ID: BG24-03 0'									
Project: Crow Flats Fed Com 1	Collection Date: 1/12/2024 2:30:00 PM									
Lab ID: 2401656-007	Matrix: SOIL Received Date: 1/17/2024 8:10:00 AM									
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS					Analyst	: SNS				
Chloride	ND	60	mg/Kg	20	1/18/2024 7:06:03 PM	79989				
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analyst	: DGH				
Diesel Range Organics (DRO)	ND	8.9	mg/Kg	1	1/24/2024 12:29:18 PM	79988				
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	1/24/2024 12:29:18 PM	79988				
Surr: DNOP	75.0	69-147	%Rec	1	1/24/2024 12:29:18 PM	79988				
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst	: JJP				
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	1/19/2024 3:17:06 AM	79963				
Surr: BFB	93.2	15-244	%Rec	1	1/19/2024 3:17:06 AM	79963				
EPA METHOD 8021B: VOLATILES					Analyst	: JJP				
Benzene	ND	0.024	mg/Kg	1	1/19/2024 3:17:06 AM	79963				
Toluene	ND	0.047	mg/Kg	1	1/19/2024 3:17:06 AM	79963				
Ethylbenzene	ND	0.047	mg/Kg	1	1/19/2024 3:17:06 AM	79963				
Xylenes, Total	ND	0.094	mg/Kg	1	1/19/2024 3:17:06 AM	79963				
Surr: 4-Bromofluorobenzene	86.8	39.1-146	%Rec	1	1/19/2024 3:17:06 AM	79963				

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- В Analyte detected in the associated Method Blank

- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Surr: 4-Bromofluorobenzene

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2401656

Date Reported: 1/29/2024

CLIENT: EOG		Client Sample ID: BG24-03 2'								
Project: Crow Flats Fed Com 1	Collection Date: 1/12/2024 2:35:00 PM									
Lab ID: 2401656-008	Matrix: SOIL	Matrix: SOIL Received Date: 1/17/2024 8:10:0								
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS					Analys	t: SNS				
Chloride	230	60	mg/Kg	20	1/18/2024 7:21:13 PM	79989				
EPA METHOD 8015M/D: DIESEL RAM	IGE ORGANICS				Analys	t: PRD				
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	1/18/2024 9:08:27 PM	79964				
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	1/18/2024 9:08:27 PM	79964				
Surr: DNOP	111	69-147	%Rec	1	1/18/2024 9:08:27 PM	79964				
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: JJP				
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	1/19/2024 3:40:43 AM	79963				
Surr: BFB	93.6	15-244	%Rec	1	1/19/2024 3:40:43 AM	79963				
EPA METHOD 8021B: VOLATILES					Analys	t: JJP				
Benzene	ND	0.024	mg/Kg	1	1/19/2024 3:40:43 AM	79963				
Toluene	ND	0.049	mg/Kg	1	1/19/2024 3:40:43 AM	79963				
Ethylbenzene	ND	0.049	mg/Kg	1	1/19/2024 3:40:43 AM	79963				
Xylenes, Total	ND	0.097	mg/Kg	1	1/19/2024 3:40:43 AM	79963				

87.5

39.1-146

%Rec

1

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- В Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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79963

1/19/2024 3:40:43 AM

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2401656

Date Reported: 1/29/2024

CLIENT: EOG	Client Sample ID: BG24-03 4'									
Project: Crow Flats Fed Com 1	Collection Date: 1/12/2024 2:40:00 PM									
Lab ID: 2401656-009	Matrix: SOIL Received Date: 1/17/2024 8:10:00 AM									
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS					Analys	t: SNS				
Chloride	97	60	mg/Kg	20	1/18/2024 8:06:39 PM	79989				
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS				Analys	t: PRD				
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	1/18/2024 9:19:02 PM	79964				
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	1/18/2024 9:19:02 PM	79964				
Surr: DNOP	79.5	69-147	%Rec	1	1/18/2024 9:19:02 PM	79964				
EPA METHOD 8015D: GASOLINE RAN	IGE				Analys	t: JJP				
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	1/19/2024 4:04:21 AM	79963				
Surr: BFB	89.0	15-244	%Rec	1	1/19/2024 4:04:21 AM	79963				
EPA METHOD 8021B: VOLATILES					Analys	t: JJP				
Benzene	ND	0.023	mg/Kg	1	1/19/2024 4:04:21 AM	79963				
Toluene	ND	0.047	mg/Kg	1	1/19/2024 4:04:21 AM	79963				
Ethylbenzene	ND	0.047	mg/Kg	1	1/19/2024 4:04:21 AM	79963				
Xylenes, Total	ND	0.094	mg/Kg	1	1/19/2024 4:04:21 AM	79963				
Surr: 4-Bromofluorobenzene	82.9	39.1-146	%Rec	1	1/19/2024 4:04:21 AM	79963				

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- В Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Result

14

PQL

1.5

SPK value

15.00

SPK Ref Val

0

%REC

93.4

LowLimit

90

HighLimit

110

%RPD

RPDLimit

Qual

· ·		Y REPORT tal Analysis Laborato	wo#:	2401656 29-Jan-24
Client: Project:	EOG Crow I	Flats Fed Com 1		
Sample ID:	MB-79973	SampType: MBLK	TestCode: EPA Method 300.0: Anions	
Client ID:	PBS	Batch ID: 79973	RunNo: 102522	
Prep Date:	1/18/2024	Analysis Date: 1/18/2024	SeqNo: 3788315 Units: mg/Kg	
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
Chloride		ND 1.5		
Sample ID:	LCS-79973	SampType: LCS	TestCode: EPA Method 300.0: Anions	
Client ID:	LCSS	Batch ID: 79973	RunNo: 102522	
Prep Date:	1/18/2024	Analysis Date: 1/18/2024	SeqNo: 3788316 Units: mg/Kg	
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
Chloride		14 1.5 15.00	0 93.4 90 110	
Sample ID:	MB-79989	SampType: MBLK	TestCode: EPA Method 300.0: Anions	
Client ID:	PBS	Batch ID: 79989	RunNo: 102522	
Prep Date:	1/18/2024	Analysis Date: 1/18/2024	SeqNo: 3788360 Units: mg/Kg	
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
Chloride		ND 1.5	-	
Sample ID:	LCS-79989	SampType: LCS	TestCode: EPA Method 300.0: Anions	
Client ID:	LCSS	Batch ID: 79989	RunNo: 102522	
Prep Date:	1/18/2024	Analysis Date: 1/18/2024	SeqNo: 3788362 Units: mg/Kg	

Qualifiers:

Analyte

Chloride

- Value exceeds Maximum Contaminant Level. *
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- В Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Client: EOG Project: Crow Fl	ats Fed Com 1						
Sample ID: LCS-79964	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: LCSS	Batch ID: 79964	RunNo: 102525					
Prep Date: 1/17/2024	Analysis Date: 1/18/2024	SeqNo: 3788592 Units: mg/Kg					
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual					
Diesel Range Organics (DRO)	65 10 50.00	0 130 61.9 130 S					
Surr: DNOP	7.4 5.000	147 69 147 S					
Sample ID: MB-79964	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: PBS	Batch ID: 79964	RunNo: 102525					
Prep Date: 1/17/2024	Analysis Date: 1/18/2024	SeqNo: 3788593 Units: mg/Kg					
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual					
Diesel Range Organics (DRO)	ND 10	•					
Motor Oil Range Organics (MRO)	ND 50						
Surr: DNOP	11 10.00	110 69 147					
Sample ID: MB-79997	SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 79997	RunNo: 102557					
Prep Date: 1/19/2024	Analysis Date: 1/19/2024	SeqNo: 3788742 Units: mg/Kg					
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual					
Diesel Range Organics (DRO)	ND 10						
Motor Oil Range Organics (MRO)	ND 50						
Surr: DNOP	9.9 10.00	99.4 69 147					
Sample ID: LCS-79997	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: LCSS	Batch ID: 79997	RunNo: 102557					
Prep Date: 1/19/2024	Analysis Date: 1/19/2024	SeqNo: 3788743 Units: mg/Kg					
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual					
Diesel Range Organics (DRO)	47 10 50.00	0 93.9 61.9 130					
Surr: DNOP	4.6 5.000	92.5 69 147					
Sample ID: LCS-79964	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: LCSS	Batch ID: 79964	RunNo: 102563					
Prep Date: 1/17/2024	Analysis Date: 1/19/2024	SeqNo: 3789043 Units: mg/Kg					
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual					
Diesel Range Organics (DRO)	61 10 50.00	0 121 61.9 130					
Surr: DNOP	6.7 5.000	134 69 147					

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S

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- Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits

В

- Е J
- Р Sample pH Not In Range
 - Reporting Limit RL

WO#:	2401656
	29-Jan-24

	WO#:	2401656
Hall Environmental Analysis Laboratory, Inc.		29-Jan-24

Client: EOG Project: Crow I	Flats Fed Co	m 1								
Sample ID: MB-79988	Samp	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS	Batc	h ID: 79 9	988	F	RunNo: 1(02563				
Prep Date: 1/18/2024	Analysis [Date: 1/	19/2024	Ş	SeqNo: 37	789044	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		116	69	147			
Sample ID: LCS-79988	Samp ⁻	Type: LC	S	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: LCSS	Batc	h ID: 79 9	988	F	RunNo: 1(02563				
Prep Date: 1/18/2024	Analysis [Date: 1/	19/2024	Ş	SeqNo: 37	789045	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	60	10	50.00	0	119	61.9	130			
Surr: DNOP	6.0		5.000		120	69	147			

Qualifiers:

- Value exceeds Maximum Contaminant Level. *
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank В
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit
- Released to Imaging: 7/9/2024 2:25:28 PM

EOG

Client:

SUMMART REFORT	WO#:	2401656
Environmental Analysis Laboratory, Inc.		29-Jan-24

Project: Crow Fl	ats Fed Con	n 1								
Sample ID: Ics-79963	SampType: LCS TestCode: EPA Method 8015D: Gasoline Range									
Client ID: LCSS	Batch	ID: 799	963	F	RunNo: 1(02518				
Prep Date: 1/17/2024	Analysis D	ate: 1/	18/2024	SeqNo: 3787610 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	105	70	130			
Surr: BFB	2200		1000		216	15	244			
Sample ID: MB-79963	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015D: Gaso	line Range)	
Client ID: PBS	Batch	ID: 799	963	F	RunNo: 1(02518				
Prep Date: 1/17/2024	Analysis D	ate: 1/	18/2024	S	SeqNo: 37	787611	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		101	15	244			

Qualifiers:

- Value exceeds Maximum Contaminant Level. *
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank В
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

EOG

Client:

Project:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Crow Flats Fed Com 1

2401030	won.
29-Jan-24	

Sample ID: LCS-79963	LCS-79963 SampType: LCS					TestCode: EPA Method 8021B: Volatiles					
Client ID: LCSS	Batc	h ID: 79 9	963	F	RunNo: 1	02518					
Prep Date: 1/17/2024	Analysis I	Date: 1/	18/2024	S	SeqNo: 3	787613	Units: mg/K	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.84	0.025	1.000	0	84.3	70	130				
Toluene	0.86	0.050	1.000	0	86.4	70	130				
Ethylbenzene	0.88	0.050	1.000	0	88.0	70	130				
Xylenes, Total	2.7	0.10	3.000	0	89.9	70	130				
Surr: 4-Bromofluorobenzene	0.91		1.000		91.1	39.1	146				
Sample ID: MB-79963	Samp	Туре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Volati	iles			
Client ID: PBS	Batc	h ID: 79	963	F	RunNo: 1	02518					
Prep Date: 1/17/2024	Analysis I	Date: 1/	18/2024	S	SeqNo: 3	787614	Units: mg/K	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND	0.025									
Toluene	ND	0.050									
Ethylbenzene	ND	0.050									
Xylenes, Total	ND	0.10									
Surr: 4-Bromofluorobenzene	0.90		1.000		89.9	39.1	146				

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank В
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

WO#· 2401656 n-24

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Eurofins Environment Testing South Central, LLC 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Website: www	v.hallenvironmental	l.com	
Client Name: EOG Work Order Num	ber: 2401656		RcptNo: 1
Received By: Tracy Casarrubias 1/17/2024 8:10:00	AM		
Completed By: Tracy Casarrubias 1/17/2024 8:34:41	AM		
Reviewed By: SCM 1/17/24			
Chain of Custody			
Is Chain of Custody complete?	Yes	No 🗹	Not Present
. How was the sample delivered?	Courier		
Log In . Was an attempt made to cool the samples?	Yes 🗹	No 🗌	
. Were all samples received at a temperature of $>0^{\circ}$ C to 6.0°C	Yes 🗹	No 🗌	
. Sample(s) in proper container(s)?	Yes 🗹	No 🗌	
S. Sufficient sample volume for indicated test(s)?	Yes 🗹	No 🗌	
'. Are samples (except VOA and ONG) properly preserved?	Yes 🗹	No 🗌	
3. Was preservative added to bottles?	Yes	No 🗹	NA 🗌
). Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes	No 🗌	NA 🗹
0. Were any sample containers received broken?	Yes	No 🗹	# of preserved
1. Does paperwork match bottle labels?	Yes 🔽	No 🗌	bottles checked for pH:
(Note discrepancies on chain of custody)	_	_	(<2 or >12 unless noted)
2. Are matrices correctly identified on Chain of Custody?	Yes 🗹	No 🛄	Adjusted?
3. Is it clear what analyses were requested?	Yes 🗹	No 🗌	Checked by: 71117
 Were all holding times able to be met? (If no, notify customer for authorization.) 	Yes 🗹	No 🛄	Griecked by. JOCK 11-71
pecial Handling (if applicable)			
5. Was client notified of all discrepancies with this order?	Yes	No 🗌	NA 🔽
Person Notified: Date:			
By Whom: Via:	eMail F	Phone 🗌 Fax	In Person
Regarding:			
Client Instructions: Mailing address, phone number and Er	nail/Fax are missir	na on COC- TM	IC 1/17/24
6. Additional remarks:			
7. <u>Cooler Information</u> Cooler No Temp °C Condition Seal Intact Seal No	Seal Date	Signed By	
1 2.0 Good Yes Yogi			

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The for the Sent	ANALYSIS LABORATORY	www.hallenvironmental.com	4901 Hawkins NE - Albuquerque, NM 87109	Tel. 505-345-3975 Fax 505-345-4107	ysis Requ	⁺OS	' PO₄' 0SIMS PCB's 20 / MF	7 D / DR 2808/ 01.40 20N 20N 20N 20N 20N	۸۵ 0 ^{3'} 10 (9 29 9 26 9 26	etho (OA) (OA) (OA)	PH:80 081 Pe 2270 (S 2270 (S 2270) (S									7		Date Time: Relinquished Received by: Via: Date Time Remarks: Date: Time: Relinquished by: NAMMAAA 111/134 1030 Cd3xon@vcrtex.cv Date: Time: Relinquished by: Nai'l Couner Date Time NMAAAAA Received by: Via: Couner Date Time NMAAAAA Received by: Via: Couner Date Time NMAAAAA NAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
Turn-Around Time:	□ Standard Z Rush Z-D94		Crow Flats Fed Com 1		23E-05858	Project Manager:	C. Divon	Sampler: A. Moh L		# 01 000/013. Cooler Temp(induding cF): 2.0 ± ∅ ÷ 2.0 (°C)	Container Preservative HEAL No.	1 ype and # 1 ype 2401000		003	P00	005	V V	100	002	0 0 005		Received by: Via: Date Time Date Time MMMMM 114 1030 Received by: Via: Counter Date Time 0.10
	Client: F.O.(+ (Verack)	1	Mailing Address: の		Phone #:	Fax#:	QA/QC Package:	□ Az Compliance				Date Time Matrix Sample Name	N:05 1 8624-01 2'	B624-02		14:20 BG24-02 4'	V 14:25 V B624-02 4.5'	-	14:35 8624-03 21	N		Date: Time: Relinguished by: Date: Time: Relinguished by: 1 b) 24 1,050 (U.U.U.U.U.U.U.U.U.U.U.U.U.U.U.U.U.U.U.



Environment Testing

Eurofins Environment Testing South Central, LLC 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

January 25, 2024

Chance Dixon Vertex Resources Services, Inc. 3101 Boyd Drive Carlsbad, NM 88220 TEL: (505) 506-0040 FAX:

RE: Crow Flats Fed Com 1

OrderNo.: 2401791

Dear Chance Dixon:

Eurofins Environment Testing South Central, LLC received 2 sample(s) on 1/19/2024 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2401791

Date Reported: 1/25/2024

CLIENT:	Vertex Resources Services, Inc.	
Project:	Crow Flats Fed Com 1	
Lab ID:	2401791-001	Matrix:

Client Sample ID: WES23-02 0-5' Collection Date: 1/17/2024 11:30:00 AM Received Date: 1/19/2024 8:00:00 AM

Matrix: MEOH (SOIL)

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: JKU
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	1/19/2024 11:09:20 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	1/19/2024 11:09:20 AM
Surr: DNOP	95.9	69-147	%Rec	1	1/19/2024 11:09:20 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.1	mg/Kg	1	1/19/2024 11:12:27 AM
Surr: BFB	93.9	15-244	%Rec	1	1/19/2024 11:12:27 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.021	mg/Kg	1	1/19/2024 11:12:27 AM
Toluene	ND	0.041	mg/Kg	1	1/19/2024 11:12:27 AM
Ethylbenzene	ND	0.041	mg/Kg	1	1/19/2024 11:12:27 AM
Xylenes, Total	ND	0.083	mg/Kg	1	1/19/2024 11:12:27 AM
Surr: 4-Bromofluorobenzene	86.6	39.1-146	%Rec	1	1/19/2024 11:12:27 AM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	750	60	mg/Kg	20	1/19/2024 1:21:49 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

- н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value J
- Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

*

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2401791

Date Reported: 1/25/2024

CLIENT:	Vertex Resources Services, Inc.		
Project:	Crow Flats Fed Com 1		
Lab ID:	2401791-002	Matrix:	ME

Client Sample ID: WES23-03 0-5' Collection Date: 1/17/2024 11:40:00 AM

Matrix: MEOH (SOIL) Received Date: 1/19/2024 8:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: JKU
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	1/19/2024 11:21:16 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	1/19/2024 11:21:16 AM
Surr: DNOP	99.4	69-147	%Rec	1	1/19/2024 11:21:16 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	1/19/2024 11:36:29 AM
Surr: BFB	96.4	15-244	%Rec	1	1/19/2024 11:36:29 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	1/19/2024 11:36:29 AM
Toluene	ND	0.049	mg/Kg	1	1/19/2024 11:36:29 AM
Ethylbenzene	ND	0.049	mg/Kg	1	1/19/2024 11:36:29 AM
Xylenes, Total	ND	0.097	mg/Kg	1	1/19/2024 11:36:29 AM
Surr: 4-Bromofluorobenzene	85.7	39.1-146	%Rec	1	1/19/2024 11:36:29 AM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	1900	60	mg/Kg	20	1/19/2024 1:37:03 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value J
- Analyte detected below quantitation limits Р
- Sample pH Not In Range RL Reporting Limit

*

Client: Project:		ex Resources Services, v Flats Fed Com 1	Inc.							
Sample ID:	MB-79999	SampType: ME	BLK	Tes	tCode: EP	A Method	300.0: Anions	;		
Client ID:	PBS	Batch ID: 79	999	F						
Prep Date:	1/19/2024	Analysis Date: 1/	19/2024	S	SeqNo: 37 9	90298	Units: mg/K	g		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND 1.5								
Sample ID:	LCS-79999	SampType: LC	S	Tes	tCode: EP	A Method	300.0: Anions	;		
Client ID:	LCSS	Batch ID: 79	999	F	RunNo: 10	2562				
Prep Date:	1/19/2024	Analysis Date: 1/	19/2024	S	SeqNo: 37 9	90299	Units: mg/K	g		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14 1.5	15.00	0	94.1	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

WO#:

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2401791

25-Jan-24

Client: Project:	Vertex Re Crow Flat		,	Inc.									
Sample ID:	MB-79997	SampT	Гуре: МЕ	BLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID:	PBS	Batch	h ID: 799	997	RunNo: 102557								
Prep Date:	1/19/2024	Analysis D	Date: 1/	19/2024	SeqNo: 3788742 Units: mg/Kg								
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range C	Drganics (DRO)	ND	10										
9	e Organics (MRO)	ND	50										
Surr: DNOP		9.9		10.00		99.4	69	147					
Sample ID:	LCS-79997	SampT	Гуре: LC	s	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics			
Client ID:	LCSS	RunNo: 102557											
Prep Date:	1/19/2024	Analysis D	Date: 1/	19/2024	S	SeqNo: 37							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range C	Organics (DRO)	47	10	50.00	0	93.9	61.9	130					
Surr: DNOP		4.6		5.000		92.5	69	147					
Sample ID:	2401791-002AMS	SampT	Гуре: МS	5	Tes	tCode: EF	A Method	8015M/D: Die	sel Range	Organics			
Client ID:	WES23-03 0-5'	Batch	h ID: 799	997	F	RunNo: 1()2557						
Prep Date:	1/19/2024	Analysis D	Date: 1/	19/2024	S	SeqNo: 37	788749	Units: mg/K	g				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range C	Organics (DRO)	44	9.1	45.54	0	96.1	54.2	135					
Surr: DNOP		4.5		4.554		99.4	69	147					
Sample ID:	2401791-002AMSD	SampT	Гуре: МS	SD .	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics			
Client ID:	WES23-03 0-5'	Batch	h ID: 799	997	F	RunNo: 1()2557						
Prep Date:	1/19/2024	Analysis D	Date: 1/	19/2024	SeqNo: 3788750 Units: mg/Kg								
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range C	Organics (DRO)	42	9.4	47.17	0	88.1	54.2	135	5.12	29.2			
Surr: DNOP		4.6		4.717		98.2	69	147	0	0			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range

RL Reporting Limit

Client: Project:	Vertex Re Crow Flat	esources S as Fed Cor	,	Inc.									
Sample ID:	2.5ug gro lcs	SampT	Гуре: LC	S	TestCode: EPA Method 8015D: Gasoline Range								
Client ID:	LCSS	Batch	h ID: GS	102555	RunNo: 102555								
Prep Date:		Analysis D	Date: 1/	19/2024	S	SeqNo: 3	788694	Units: mg/K	g				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Rang	ge Organics (GRO)	23	5.0	25.00	0	91.6	70	130					
Surr: BFB		2000		1000		199	15	244					
Sample ID:	mb	SampT	Гуре: МЕ	BLK	Tes	TestCode: EPA Method 8015D: Gasoline Range							
Client ID:	PBS	Batch	h ID: GS	102555	F	RunNo: 1	02555						
Prep Date:		Analysis D	Date: 1/	19/2024	S	SeqNo: 3	788695	Units: mg/K	g				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Rang	ge Organics (GRO)	ND	5.0										
Surr: BFB		940		1000		94.2	15	244					
Sample ID:	2401791-001ams	SampT	Гуре: МS	6	TestCode: EPA Method 8015D: Gasoline Range								
Client ID:	WES23-02 0-5'	Batch	h ID: GS	102555	F	RunNo: 1	02555						
Prep Date:		Analysis D	Date: 1/	19/2024	S	SeqNo: 3	789404	Units: mg/K	g				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Rang	ge Organics (GRO)	18	4.1	20.68	0	87.8	70	130					
Surr: BFB		1700		827.1		204	15	244					
Sample ID:	2401791-001amsd	SampT	Гуре: МS	D	Tes	tCode: El	PA Method	8015D: Gaso	line Range				
Client ID:	WES23-02 0-5'	Batch	h ID: GS	102555	F	RunNo: 1	02555						
Prep Date:		Analysis D	Date: 1/	19/2024	S	SeqNo: 3	789405	Units: mg/K	/Kg				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Rang	ge Organics (GRO)	18	4.1	20.68	0	85.6	70	130	2.63	20			
	, , ,				-	00.0							

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Released to Imaging: 7/9/2024 2:25:28 PM

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WO#: 2401791 25-Jan-24

	Resources S lats Fed Co		Inc.							
Sample ID: 100ng btex lcs	Samp	Туре: LC	S	Tes	tCode: EF	A Method	8021B: Volati	les		
Client ID: LCSS	Batc	h ID: R1	02555	F	RunNo: 10	2555				
Prep Date:	Analysis I	Date: 1/	19/2024	S	SeqNo: 37	88697	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	89.4	70	130			
Toluene	0.91	0.050	1.000	0	90.6	70	130			
Ethylbenzene	0.92	0.050	1.000	0	92.5	70	130			
Xylenes, Total	2.8	0.10	3.000	0	92.9	70	130			
Surr: 4-Bromofluorobenzene	0.89		1.000		89.3	39.1	146			
Sample ID: mb	Samp	Туре: МЕ	BLK	Tes	tCode: EF	A Method	8021B: Volati	les		
Client ID: PBS	Batc	h ID: R1	02555	F	RunNo: 10	2555				
Prep Date:	Analysis I	Date: 1/	19/2024	S	SeqNo: 37	88698	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.88		1.000		87.9	39.1	146			
Sample ID: 2401791-002ams	Samp	Туре: МS	;	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: WES23-03 0-5'	Batc	h ID: R1	02555	F	RunNo: 10	2555				
Prep Date:	Analysis I	Date: 1/	19/2024	5	SeqNo: 37	89428	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.024	0.9718	0	88.7	70	130			
Toluene	0.88	0.049	0.9718	0	90.6	70	130			
Ethylbenzene	0.88	0.049	0.9718	0	91.0	70	130			
Xylenes, Total	2.7	0.097	2.915	0	92.0	70	130			
Surr: 4-Bromofluorobenzene	0.84		0.9718		86.0	39.1	146			
Sample ID: 2401701 002ama										
Sample ID: 2401791-002ams	d Samp	Гуре: МS	D	Tes	tCode: EF	A Method	8021B: Volati	les		
Client ID: WES23-03 0-5'		Type: MS h ID: R1			tCode: EF RunNo: 10		8021B: Volati	les		
		h ID: R1	02555	F		2555	8021B: Volati Units: mg/K			
Client ID: WES23-03 0-5' Prep Date: Analyte	Batc Analysis I Result	h ID: R1 Date: 1/ PQL	02555 19/2024 SPK value	F S SPK Ref Val	RunNo: 10 SeqNo: 37 %REC	02555 789429 LowLimit	Units: mg/K HighLimit	g %RPD	RPDLimit	Qual
Client ID: WES23-03 0-5' Prep Date: Analyte Benzene	Batc Analysis I Result 0.83	h ID: R1 Date: 1/ PQL 0.024	02555 19/2024 SPK value 0.9718	F SPK Ref Val 0	RunNo: 10 SeqNo: 37 %REC 85.7	22555 789429 LowLimit 70	Units: mg/K HighLimit 130	g %RPD 3.52	20	Qual
Client ID: WES23-03 0-5' Prep Date: Analyte Benzene Toluene	Batc Analysis I Result 0.83 0.85	h ID: R1 Date: 1/ PQL 0.024 0.049	02555 19/2024 SPK value 0.9718 0.9718	F SPK Ref Val 0 0	RunNo: 10 SeqNo: 37 %REC 85.7 87.7	22555 789429 LowLimit 70 70	Units: mg/K HighLimit 130 130	g %RPD 3.52 3.30	20 20	Qual
Client ID: WES23-03 0-5' Prep Date: Analyte Benzene Toluene Ethylbenzene	Batc Analysis I Result 0.83 0.85 0.86	h ID: R1 Date: 1/ <u>PQL</u> 0.024 0.049 0.049	02555 19/2024 SPK value 0.9718 0.9718 0.9718	F SPK Ref Val 0 0 0	RunNo: 10 SeqNo: 37 %REC 85.7 87.7 88.5	22555 789429 LowLimit 70 70 70 70	Units: mg/K HighLimit 130 130 130	g %RPD 3.52 3.30 2.86	20 20 20	Qual
Client ID: WES23-03 0-5' Prep Date: Analyte Benzene Toluene	Batc Analysis I Result 0.83 0.85	h ID: R1 Date: 1/ PQL 0.024 0.049	02555 19/2024 SPK value 0.9718 0.9718	F SPK Ref Val 0 0	RunNo: 10 SeqNo: 37 %REC 85.7 87.7	22555 789429 LowLimit 70 70	Units: mg/K HighLimit 130 130	g %RPD 3.52 3.30	20 20	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

WO#: **2401791**

25-Jan-24

Client Name: Vertex Resources Work Order Number	er: 2401791	87	RcptNo: 1
Received By: Cheyenne Cason 1/19/2024 8:00:00 A	м	Chent	
Completed By: Cheyenne Cason 1/19/2024 8:27:22 A	м	Chenl Chenl	
Reviewed By: SCM 1/19/24			
Chain of Custody			
1. Is Chain of Custody complete?	Yes 🗹	No	Not Present
2. How was the sample delivered?	Courier		
Log In		-	
3. Was an attempt made to cool the samples?	Yes 🗹	No 🗔	NA
4. Were all samples received at a temperature of $>0^{\circ}$ C to 6.0°C	Yes 🗹	No 🗌	
5. Sample(s) in proper container(s)?	Yes 🔽	No	
6. Sufficient sample volume for indicated test(s)?	Yes 🗹 Yes 🗹	No 🗌	
7. Are samples (except VOA and ONG) properly preserved?	Yes ₪	No 🗹	NA
Was preservative added to bottles?			
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes	No 🗌	NA 🗹
O. Were any sample containers received broken?	Yes	No 🗹	# of preserved
	Yes 🗸	No 🗌	bottles checked for pH:
1. Does paperwork match bottle labels? (Note discrepancies on chain of custody)			(<2 or >12 unless noted
2. Are matrices correctly identified on Chain of Custody?	Yes 🗹	No 🗌	Adjusted?
3. Is it clear what analyses were requested?	Yes 🗹	No 🗌	in a dala
4. Were all holding times able to be met?	Yes 🗹	No	Checked by: 119/2
(If no, notify customer for authorization.)			
Special Handling (if applicable)	Vec 🗌	No 🗌	
15. Was client notified of all discrepancies with this order?	Yes		
Person Notified: Date:	e		
By Whom: Via:	eMail	Phone Fax	In Person
Regarding:			

Page 179 of 341

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Received L	hy OCD.	: 7/9/2024	Received by OCD: 7/9/2024 1:19:06 PM					ĺ							Page	Page 180 of 341
ວ	hain	-of-Cu	Chain-of-Custody Record		Turn-Around Time:	Time:				-		Ū.		D a	HALL ENVIRONMENTAL	
Client:	Е 0 Е	ر ک	EOG (Vertex)		□ Standard		K Rush Jaw Day				AN	Ľ	ANALYSIS		LABORATORY	۲. ۲
	8				Project Name:		, , ,			_	www.h	allenv	ironmo		om	
Mailing Address:	Address	S	file		Crow 1-1		ats red wm.	4	4901	4901 Hawkins NE	ns NE		nquer	que, N	- Albuquerque, NM 87109	
	2.1	35			Project #:	1010	1 N		Tel.	505-345-3975	5-397	- 0	Fax 5(	505-345-4107	-4107	2
Phone #:					200-	CC890-997	C D					Analysis	the second second second	Request		
email or Fax#	Fax#:				Project Manager	ger:		(1	(0)			*OS		(jue		
QA/QC Package:	'ackage: lard		Level 4 (Full Validation)	ation)	C. DINUN	YS		 208) <i>e</i> 'i		<u></u>	SMISO	PO4, 5				
Accreditation:	ation:	□ Az Cc	Az Compliance		Sampler: A	Mohl	0	amt	9010	_	728 1	^z ON				
	(Tvpe)	Other			Un Ice: L # of Coolers: 1	A Yes	NO VOLVEN	/ 38	้อยอ	_						
					Cooler Temp(Including CF): 0, 3	Including CF): O.	-0.12 0.2 (	<u>і</u> тм	691		100		(AO	-		
Date 7	Time	Matrix	Sample Name		Container Type and #	Preservative Type	HEAL No.	TEX	08:HJ	8081 Pé	d sHA9	RCRA E	v) 0928	S) 0728 D lbfoT		
-	08.11	Soil	WES23-02	15-0	the lar	i G	ē	X	X			X		a de la	And And And And	
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I WUM I WUM	recessary	WALL (WAL	UNDAAAAAAAAAAAAAAAAAA mules suthmitted to Hall Environmental m	lav be subo	ther (	accredited laborato	人   IIイレイ のの の 1 dited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.	of this pos	sibility. Ar	V sub-co	ntracted o	lata will b	e clearly	notated	on the analytical report.	

Released to Imaging: //9/2024 2:25:28 PM

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Eurofins Environment Testing South Central, LLC 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

January 25, 2024

Chance Dixon Vertex Resources Services, Inc. 3101 Boyd Drive Carlsbad, NM 88220 TEL: (505) 506-0040 FAX:

RE: Crow Flats Fed Com 1

OrderNo.: 2401839

Dear Chance Dixon:

Eurofins Environment Testing South Central, LLC received 3 sample(s) on 1/20/2024 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2401839

Date Reported: 1/25/2024

CLIENT:	Vertex Resources Services, Inc.		C
Project:	Crow Flats Fed Com 1		
Lab ID:	2401839-001	Matrix:	MEOH (SOIL)

Client Sample ID: BES23-05 11' Collection Date: 1/18/2024 9:03:00 AM

Received Date: 1/20/2024 8:05:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: <b>JKU</b>
Diesel Range Organics (DRO)	19	9.2	mg/Kg	1	1/22/2024 10:54:02 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	1/22/2024 10:54:02 AM
Surr: DNOP	81.8	69-147	%Rec	1	1/22/2024 10:54:02 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	3.9	mg/Kg	1	1/22/2024 11:44:08 AM
Surr: BFB	102	15-244	%Rec	1	1/22/2024 11:44:08 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.020	mg/Kg	1	1/22/2024 11:44:08 AM
Toluene	ND	0.039	mg/Kg	1	1/22/2024 11:44:08 AM
Ethylbenzene	ND	0.039	mg/Kg	1	1/22/2024 11:44:08 AM
Xylenes, Total	ND	0.078	mg/Kg	1	1/22/2024 11:44:08 AM
Surr: 4-Bromofluorobenzene	89.9	39.1-146	%Rec	1	1/22/2024 11:44:08 AM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	360	60	mg/Kg	20	1/22/2024 3:14:54 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

- н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2401839

Date Reported: 1/25/2024

CLIENT:	Vertex Resources Services, Inc.		
Project:	Crow Flats Fed Com 1		
Lab ID:	2401839-002	Matrix:	MEOH

Client Sample ID: WES23-02 5-11' Collection Date: 1/18/2024 1:20:00 PM

Matrix: MEOH (SOIL)

Received Date: 1/20/2024 8:05:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: <b>JKU</b>
Diesel Range Organics (DRO)	24	9.5	mg/Kg	1	1/22/2024 11:30:23 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	1/22/2024 11:30:23 AM
Surr: DNOP	86.7	69-147	%Rec	1	1/22/2024 11:30:23 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	1/22/2024 12:08:05 PM
Surr: BFB	99.0	15-244	%Rec	1	1/22/2024 12:08:05 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	1/22/2024 12:08:05 PM
Toluene	ND	0.047	mg/Kg	1	1/22/2024 12:08:05 PM
Ethylbenzene	ND	0.047	mg/Kg	1	1/22/2024 12:08:05 PM
Xylenes, Total	ND	0.095	mg/Kg	1	1/22/2024 12:08:05 PM
Surr: 4-Bromofluorobenzene	88.3	39.1-146	%Rec	1	1/22/2024 12:08:05 PM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	330	60	mg/Kg	20	1/22/2024 3:29:32 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value J
- Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

*

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2401839

Date Reported: 1/25/2024

CLIENT:	Vertex Resources Services, Inc.			Clie
Project:	Crow Flats Fed Com 1			Co
Lab ID:	2401839-003	Matrix:	MEOH (SOIL)	R

ent Sample ID: WES23-03 5-11' Collection Date: 1/18/2024 1:30:00 PM

Received Date: 1/20/2024 8:05:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: <b>JKU</b>
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	1/22/2024 11:42:23 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	1/22/2024 11:42:23 AM
Surr: DNOP	86.3	69-147	%Rec	1	1/22/2024 11:42:23 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	3.7	mg/Kg	1	1/22/2024 12:31:56 PM
Surr: BFB	101	15-244	%Rec	1	1/22/2024 12:31:56 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.018	mg/Kg	1	1/22/2024 12:31:56 PM
Toluene	ND	0.037	mg/Kg	1	1/22/2024 12:31:56 PM
Ethylbenzene	ND	0.037	mg/Kg	1	1/22/2024 12:31:56 PM
Xylenes, Total	ND	0.074	mg/Kg	1	1/22/2024 12:31:56 PM
Surr: 4-Bromofluorobenzene	91.2	39.1-146	%Rec	1	1/22/2024 12:31:56 PM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	750	60	mg/Kg	20	1/22/2024 3:44:42 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value J
- Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Client: Project:		ex Resources Ser v Flats Fed Com		Inc.							
Sample ID:	MB-80030	SampTyp	lk	TestCode: EPA Method 300.0: Anions							
Client ID:	PBS	Batch ID: 80030 RunNo: 102597									
Prep Date:	1/22/2024	Analysis Dat	te: 1/2	22/2024	S	SeqNo: 37	91140	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID:	LCS-80030	SampTyp	be: Ics		Tes	tCode: EF	PA Method	300.0: Anions	;		
Client ID:	LCSS	Batch I	D: 800	030	F	RunNo: <b>10</b>	2597				
Prep Date:	1/22/2024	Analysis Dat	te: 1/2	22/2024	5	SeqNo: 37	/91141	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	94.0	90	110			

#### Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

2401839

25-Jan-24

WO#:

**Client:** 

**Project:** 

## QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Vertex Resources Services, Inc.

Crow Flats Fed Com 1

	WO#: <b>240183</b>
, Inc.	25-Jan-24
	23-5 art-2

Sample ID:	MB-80016	SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics												
								ou i Jivi/D. Die	sei nange	organics				
	PBS		h ID: 800			RunNo: <b>1(</b>								
Prep Date:	1/22/2024	Analysis E	Date: 1/2	22/2024	5	SeqNo: 37	789958	Units: mg/K	g					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
0	Organics (DRO)	ND	10											
0	e Organics (MRO)	ND	50											
Surr: DNOP		8.5		10.00		84.8	69	147						
Sample ID:	LCS-80016	SampT	Гуре: <b>LC</b>	S	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics				
Client ID:	LCSS	Batcl	Batch ID: 80016 RunNo: 102589											
Prep Date:	1/22/2024	Analysis [	Date: 1/2	22/2024	SeqNo: 3789959 Units: mg/Kg				g					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Diesel Range C	Organics (DRO)	39	10	50.00	0	78.6	61.9	130						
Surr: DNOP		4.2		5.000		83.9	69	147						
Sample ID:	2401839-001AMS	SampT	Гуре: <b>МS</b>	5	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics				
Client ID:	BES23-05 11'	Batcl	h ID: 800	016	F	RunNo: <b>1(</b>	)2589							
Prep Date:	1/22/2024	Analysis I	Date: 1/2	22/2024	S	SeqNo: 37	789961	Units: mg/K	g					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Diesel Range (	Organics (DRO)	44	9.5	47.35	19.08	53.5	54.2	135			S			
Surr: DNOP		3.9		4.735		82.0	69	147						
Sample ID:	2401839-001AMSD	SampT	Гуре: <b>МS</b>	5D	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics				
Client ID:	BES23-05 11'	Batcl	h ID: 800	016	F	RunNo: <b>1(</b>	)2589							
Prep Date:	1/22/2024	Analysis [	Date: 1/2	22/2024	S	SeqNo: 37	789962	Units: mg/K	g					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
	Transies (DDO)	59	9.6	47.85	19.08	83.2	54.2	135	28.0	29.2				
Diesel Range C	JIYAIIICS (DRO)	59	9.0	47.05	19.00	03.Z	04.Z	155	20.0	29.2				

#### Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

## QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:	Vertex Re Crow Flat		,	Inc.							
Sample ID:	2.5ug gro lcs	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D: Gaso	line Range		
Client ID:	LCSS	Batch	n ID: <b>GS</b>	102587	F	RunNo: 1	02587				
Prep Date:		Analysis D	Date: 1/2	22/2024	S	SeqNo: 3	789866	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	23	5.0	25.00	0	93.9	70	130			
Surr: BFB		2100		1000		207	15	244			
Sample ID:	mb	SampT	уре: МВ	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Range		
Client ID:	PBS	Batch	Batch ID: GS102587 RunNo: 102587								
Prep Date:		Analysis D	Date: 1/2	22/2024	S	SeqNo: 3	789867	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	ND	5.0								
Surr: BFB		980		1000		97.6	15	244			
Sample ID:	2401839-001ams	SampT	уре: <b>МS</b>	;	Tes	tCode: El	PA Method	8015D: Gaso	line Range		
Client ID:	BES23-05 11'	Batch	n ID: <b>GS</b>	102587	F	RunNo: 1	02587				
Prep Date:		Analysis D	Date: 1/2	22/2024	S	SeqNo: 3	790202	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	19	3.9	19.62	0	97.3	70	130			
Surr: BFB		1700		784.9		217	15	244			
Sample ID:	2401839-001amsd	SampT	уре: МS	D	Tes	tCode: El	PA Method	8015D: Gaso	line Range		
Client ID:	BES23-05 11'	Batch	n ID: <b>GS</b>	102587	F	RunNo: 1	02587				
Prep Date:		Analysis D	Date: 1/2	22/2024	S	SeqNo: 3	790203	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	19	3.9	19.62	0	96.6	70	130	0.701	20	
Surr: BFB		1700		784.9		217	15	244	0	0	

#### Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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#### WO#: 2401839 25-Jan-24

## QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:	Vertex Re Crow Flat			Inc.								
Sample ID:	100ng btex lcs	Samp	Гуре: <b>LC</b>	s	Tes	tCode: EF	PA Method	8021B: Volat	iles			
Client ID:	LCSS	Batc	h ID: <b>BS</b>	102587	F	RunNo: <b>1(</b>	)2587					
Prep Date:		Analysis [	Date: 1/2	22/2024	S	SeqNo: 37	789872	Units: <b>mg/Kg</b>				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene		0.89	0.025	1.000	0	89.3	70	130				
Toluene		0.91	0.050	1.000	0	90.5	70	130				
Ethylbenzene		0.91	0.050	1.000	0	91.1	70	130				
Xylenes, Total		2.8	0.10	3.000	0	91.8	70	130				
Surr: 4-Brom	ofluorobenzene	0.89		1.000		88.7	39.1	146				
Sample ID:	mb	Samp ⁻	Гуре: <b>МЕ</b>	BLK	TestCode: EPA Method 8021B: Volatiles							
Client ID:	PBS	Batc	h ID: <b>BS</b>	102587	RunNo: 102587							
Prep Date:		Analysis [	Date: 1/2	22/2024	SeqNo: 3789873 Units: mg/Kg							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene		ND	0.025									
Toluene		ND	0.050									
Ethylbenzene		ND	0.050									
Xylenes, Total		ND	0.10									
Surr: 4-Brom	ofluorobenzene	0.87		1.000		87.2	39.1	146				
Sample ID:	2401839-002ams	Samp ⁻	Гуре: <b>МS</b>	i	Tes	tCode: EF	PA Method	8021B: Volat	iles			
Client ID:	WES23-02 5-11'	Batc	h ID: <b>BS</b>	102587	F	RunNo: <b>1(</b>	)2587					
Prep Date:		Analysis [	Date: 1/2	22/2024	S	SeqNo: 37	790204	Units: mg/K	g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene		0.82	0.024	0.9452	0	86.4	70	130				
Toluene		0.84	0.047	0.9452	0	88.4	70	130				
Ethylbenzene		0.85	0.047	0.9452	0	89.6	70	130				
Xylenes, Total		2.6	0.095	2.836	0	90.2	70	130				
Surr: 4-Brom	ofluorobenzene	0.84		0.9452		88.6	39.1	146				
					SampType: MSD TestCode: EPA Method 8021B: Volatiles							
Sample ID:	2401839-002amsd	Samp	Гуре: <b>МS</b>	D	Tes	tCode: EF	PA Method	8021B: Volat	iles			
	2401839-002amsd WES23-02 5-11'		Гуре: <b>МS</b> h ID: <b>BS</b>			tCode: EF RunNo: 10		8021B: Volat	iles			
•			h ID: BS	102587	F		)2587	8021B: Volat Units: mg/K				
Client ID: Prep Date: Analyte		Batc Analysis [ Result	h ID: <b>BS</b> Date: <b>1/2</b> PQL	102587 22/2024 SPK value	F S SPK Ref Val	RunNo: 10 SeqNo: 37 %REC	02587 790205 LowLimit	Units: <b>mg/K</b> HighLimit	<b>g</b> %RPD	RPDLimit	Qual	
Client ID: Prep Date: Analyte Benzene		Batc Analysis I Result 0.83	h ID: <b>BS</b> Date: <b>1/</b> 2 PQL 0.024	102587 22/2024 SPK value 0.9452	F SPK Ref Val 0	RunNo: 10 SeqNo: 37 %REC 87.5	02587 790205 LowLimit 70	Units: <b>mg/K</b> HighLimit 130	<b>5g</b> %RPD 1.24	20	Qual	
Client ID: Prep Date: Analyte Benzene Toluene		Batc Analysis I Result 0.83 0.84	h ID: <b>BS</b> Date: <b>1/2</b> PQL 0.024 0.047	102587 22/2024 SPK value 0.9452 0.9452	F SPK Ref Val 0 0	RunNo: 10 SeqNo: 37 %REC 87.5 88.7	22587 790205 LowLimit 70 70	Units: <b>mg/K</b> HighLimit 130 130	<b>5g</b> %RPD 1.24 0.384	20 20	Qual	
Client ID: Prep Date:		Batc Analysis I Result 0.83 0.84 0.85	h ID: <b>BS</b> Date: <b>1/2</b> PQL 0.024 0.047 0.047	102587 22/2024 SPK value 0.9452 0.9452 0.9452	F SPK Ref Val 0	RunNo: 10 SeqNo: 37 %REC 87.5 88.7 90.2	22587 790205 LowLimit 70 70 70	Units: <b>mg/K</b> HighLimit 130 130 130	<b>5g</b> %RPD 1.24 0.384 0.657	20 20 20	Qual	
Client ID: Prep Date: Analyte Benzene Toluene		Batc Analysis I Result 0.83 0.84	h ID: <b>BS</b> Date: <b>1/2</b> PQL 0.024 0.047	102587 22/2024 SPK value 0.9452 0.9452	F SPK Ref Val 0 0	RunNo: 10 SeqNo: 37 %REC 87.5 88.7	22587 790205 LowLimit 70 70	Units: <b>mg/K</b> HighLimit 130 130	<b>5g</b> %RPD 1.24 0.384	20 20	Qual	

#### Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit
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Seurofins Environment Testin	Eurofins Environ Albu TEL: 505-345-3975 Website: www.hau	4901 Iquerqu FAX: 5	Central, LLC Hawkins NE e, NM 87109 05-345-4107	Sam	ple Log-In C	heck List
Client Name: Vertex Resources V	Vork Order Number:	2401	839		RcptNo:	1
Received By: Cheyenne Cason 1/2	0/2024 8:05:00 AM		G	hul		
	0/2024 8:20:20 AM	\$	1	fenl hul		
Reviewed By: SCM 1/22/24			C.			
Chain of Custody						
1. Is Chain of Custody complete?		Yes		No 🗌	Not Present	
2. How was the sample delivered?		<u>Couri</u>	er			
Log In 3. Was an attempt made to cool the samples?		Yes		No 🗌	NA 🗌	
4. Were all samples received at a temperature of >0	0° C to 6.0°C	Yes		No 🗌		
5. Sample(s) in proper container(s)?		Yes	$\checkmark$	No 🗌		
6. Sufficient sample volume for indicated test(s)?		Yes	V	No 🗌		
7. Are samples (except VOA and ONG) properly pre-	served?	Yes	$\checkmark$	No 🗌		
8. Was preservative added to bottles?		Yes		No 🗹	NA 🗌	
9. Received at least 1 vial with headspace <1/4" for $\lambda$	AQ VOA?	Yes		No 🗌	NA 🔽	~
10. Were any sample containers received broken?		Yes		No 🗹	# of preserved bottles checked	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes	$\checkmark$	No 🗌	for pH:	>12 unless noted)
12. Are matrices correctly identified on Chain of Custo	ody?	Yes	$\checkmark$	No 🗌	Adjusted?	
13. Is it clear what analyses were requested?		Yes	$\checkmark$	No 🗌		1170/24
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes	$\checkmark$	No 🗌	Checked by	me 1/20/24
Special Handling (if applicable)						
15. Was client notified of all discrepancies with this o	rder?	Yes		No 🗌	NA 🔽	
Person Notified:	Date:					
By Whom:	Via:	eMa	il 🗌 Phon	e 🗌 Fax	In Person	
Regarding:						
Client Instructions:						
16. Additional remarks:						
17. <u>Cooler Information</u> Cooler No Temp ^o C Condition Seal In 1 0.1 Good Not Pres	tact Seal No S ent Yogi	ieal Da	ite Sig	ned By		

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Chain-of-Custody Record     Immediate     Rush Mill       i: EOG (VOY+CX)     Immediate     Rush Mill       Project Name:     Project Name:     Project Name:       Project #:     Project Manager:     Project Manager:       In Fax#:     Project Manager:     Project Manager:       In Park     Sample:     NMDNU       Economianter:     Project Manager:     Project Manager:       In Park     Sample:     Project Manager:       In Park     Sample:     Project Manager:       In Patrix     Sample Name     Proje	Received by OCD: 7/9/2024 1:19:06 PM	T							Page	Page 190 of 341
EOG (VOY+TX)     I Standard     Rush FUNM Juli       Project Name:     Norwital       Address:     On File       Project Name:     Project Name:       Project Manager:     Project Manager:       Address:     On Lee:       Address:     Project Manager:       Addrest Mana     Prope and	Chain-of-Custody Record	I urn-Around Time:			HAI		IVIE	SON	MENT/	<b>NL</b>
Project Name:     Project Name:       Project With Project Name:     Project Name:       Project Markins NE     4901 Hawkins NE       Project Markins NE     1401 Hawkins NE       Project Markins NE     11, Project Markins NE       Project Markins NE     11, Prost       Project Markins NE     11, Project Markins NE       Matrix Sample Name     11, Prost       Netrix Sample Name     11, Prost       Netrol Sold Name     23, Prol Sold Name	ant: EOG (NOV+CX)		sh Sumu duy		AN	ALYS	ISI	ABG	ORATO	RY
¹¹ On F1U     CrOw Flous Frod Com     4901 Hawkins NE ¹² On F1U     Project H     10,000 Flous Frod     4901 Hawkins NE ¹² Project Manager:     23 E- 05K 55     10,000 Flous Frod     10,000 Flous Frod ¹² Project Manager:     0,01X 0A     10,000 Flous Frod     10,000 Flous Frod ¹² Project Manager:     0,01X 0A     10,000 Flous Frod     10,000 Flous Frod ¹² Project Manager:     0,01X 0A     0,01X 0A     10,000 Flous Frod ¹² Project Manager:     0,01X 0A     0,01X 0A     10,000 Flous Frod ¹² Project Manager:     0,01X 0A     0,01X 0A     10,016 Frod ¹³ Matrix     Sample:     7,000 Flous Frod     0,01X 0A ¹³ Matrix     Sample     11,000 Frod     0,01 ¹³ Matrix     Matrix     0,01     0,01		Project Name:			MMM	hallenvi.	ronmen	tal.com		
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Project Manager:     Project Manager:       Proj			1(	Tel. 50	5-345-39	75 F	ax 505	-345-41	107	
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Time     Matrix     Sample Name     Cooler Tempressure     Color 1     CO     T       4:35     Solil     REZ3- US     II'     HOEJOU     I.U     BEI     PFHS bit       4:35     Solil     RES23- US     II'     HOEJOU     I.U     BOI     X     BOB       13:30     NES23- US     II'     HOEJOU     I.U     BOI     X     BOB       13:30     NES23- US     II'     I.U     BOI     X     K       13:30     NES23- US     II'     I.U     BOI     K     K <td></td> <td>olers:</td> <td></td> <td>le)</td> <td></td> <td>_</td> <td>_</td> <td></td> <td></td> <td></td>		olers:		le)		_	_			
Time     Matrix     Sample Name     Container     Preservative     HEAL No.     EXICIS G     EXICIS G     EXICIS G     EXICIS G       9:35     Joil BES23- 05     11'     402-jour     1.0     001     X     X     EXICIS G       13:30     NES23- 02     5-11'     1     001     X     X     EXICIS G       13:30     NES23- 03     5-11'     1     001     X     X     EXICIS G       13:30     NES23- 03     5-11'     1     001     X     X     EXICIS G       13:30     NES23- 03     5-11'     1     001     001     X     X       13:30     NES23- 03     5-11'     1     001     001     X     X       13:30     NES23- 03     5-11'     1     001     001     X     X       13:30     NES23- 03     5-11'     1     001     001     001       13:30     NES23- 03     5-11'     1     001		Cooler Temp(Including CF): 0	1-0201 (	191	_	_		1.1		
9:35 JONI RES23-05 II' 402-jan i.u. 001 X X 13:20 NES23-02 S-11' 1 022 1 1 1 1 13:30 MEJ23-03 S-11' 1 223 1 1 1 1 1 1 13:30 MEJ23-03 S-11' 1 223 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Time			18:Har				-		
13:20     1 WES23-02 5-11'     1     1     1       13:30     MEd23-03 5-11'     1     1     1       13:30     MEd223-03 5-11'     1     1     1       13:30     MEd223-03 5-11'     1     1     1       13:30     MEd223-03 5-11'     1     1     1       13:30     MEd23-03 5-11'     1     1     1       13:30     MEd23-03 5-11'     1     1     1       13:30     MEd24     1     1     1       11:10:11     MEd24     1     1     1	9.35 SOIL BES23-05	HOPian	001	>	-					
13:30     MEX23-03     S-11'     1     CCS       13:30     MEX23-03     S-11'     1     CCS       11     CCS     1     1     CCS       13:30     MEX23-03     S-11'     1     1       11     MEX23-03     MEX23-03	13:20 1 WES23-02		202		1	-		2		
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Environment Testing

Eurofins Environment Testing South Central, LLC 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

January 30, 2024

Chance Dixon Vertex Resources Services, Inc. 3101 Boyd Drive Carlsbad, NM 88220 TEL: (505) 506-0040 FAX:

RE: Crow Flats Fed Com 1

OrderNo.: 2401878

Dear Chance Dixon:

Eurofins Environment Testing South Central, LLC received 4 sample(s) on 1/23/2024 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2401878

Date Reported: 1/30/2024

<b>CLIENT:</b>	Vertex Resources Services, Inc.	
Project:	Crow Flats Fed Com 1	
Lab ID:	2401878-001	Matr

Client Sample ID: BES23-07 12' Collection Date: 1/19/2024 9:55:00 AM

Matrix: MEOH (SOIL)

Received Date: 1/23/2024 8:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	46	9.7	mg/Kg	1	1/23/2024 10:37:55 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	1/23/2024 10:37:55 AM
Surr: DNOP	97.6	69-147	%Rec	1	1/23/2024 10:37:55 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	3.8	mg/Kg	1	1/23/2024 11:29:17 AM
Surr: BFB	103	15-244	%Rec	1	1/23/2024 11:29:17 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.019	mg/Kg	1	1/23/2024 11:29:17 AM
Toluene	ND	0.038	mg/Kg	1	1/23/2024 11:29:17 AM
Ethylbenzene	ND	0.038	mg/Kg	1	1/23/2024 11:29:17 AM
Xylenes, Total	ND	0.075	mg/Kg	1	1/23/2024 11:29:17 AM
Surr: 4-Bromofluorobenzene	88.1	39.1-146	%Rec	1	1/23/2024 11:29:17 AM
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	240	60	mg/Kg	20	1/23/2024 12:16:55 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

- н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 1 of 9

## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2401878

Date Reported: 1/30/2024

<b>CLIENT:</b>	Vertex Resources Services, Inc.	
Project:	Crow Flats Fed Com 1	
Lab ID:	2401878-002	Ma

Client Sample ID: BES23-08 12' Collection Date: 1/19/2024 10:00:00 AM

Matrix: MEOH (SOIL)

Received Date: 1/23/2024 8:15:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE C	ORGANICS				Analyst: DGH
Diesel Range Organics (DRO)	16	9.2	mg/Kg	1	1/23/2024 10:48:22 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	1/23/2024 10:48:22 AM
Surr: DNOP	101	69-147	%Rec	1	1/23/2024 10:48:22 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	3.8	mg/Kg	1	1/23/2024 11:52:59 AM
Surr: BFB	97.9	15-244	%Rec	1	1/23/2024 11:52:59 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.019	mg/Kg	1	1/23/2024 11:52:59 AM
Toluene	ND	0.038	mg/Kg	1	1/23/2024 11:52:59 AM
Ethylbenzene	ND	0.038	mg/Kg	1	1/23/2024 11:52:59 AM
Xylenes, Total	ND	0.075	mg/Kg	1	1/23/2024 11:52:59 AM
Surr: 4-Bromofluorobenzene	86.7	39.1-146	%Rec	1	1/23/2024 11:52:59 AM
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	330	60	mg/Kg	20	1/23/2024 12:32:04 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- ND PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range Reporting Limit
- RL

Page 2 of 9

## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2401878

Date Reported: 1/30/2024

<b>CLIENT:</b>	Vertex Resources Services, Inc.	
Project:	Crow Flats Fed Com 1	
Lab ID:	2401878-003	Matı

### Client Sample ID: BES23-06 12' Collection Date: 1/19/2024 10:05:00 AM

Matrix: MEOH (SOIL)

Received Date: 1/23/2024 8:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	12	9.4	mg/Kg	1	1/23/2024 10:58:52 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	1/23/2024 10:58:52 AM
Surr: DNOP	104	69-147	%Rec	1	1/23/2024 10:58:52 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	3.6	mg/Kg	1	1/23/2024 12:17:01 PM
Surr: BFB	101	15-244	%Rec	1	1/23/2024 12:17:01 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.018	mg/Kg	1	1/23/2024 12:17:01 PM
Toluene	ND	0.036	mg/Kg	1	1/23/2024 12:17:01 PM
Ethylbenzene	ND	0.036	mg/Kg	1	1/23/2024 12:17:01 PM
Xylenes, Total	ND	0.072	mg/Kg	1	1/23/2024 12:17:01 PM
Surr: 4-Bromofluorobenzene	88.6	39.1-146	%Rec	1	1/23/2024 12:17:01 PM
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	480	60	mg/Kg	20	1/23/2024 12:47:14 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

Analyte detected in the associated Method Blank в

Е Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 3 of 9

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2401878

Date Reported: 1/30/2024

CLIENT:	Vertex Resources Services, Inc.	
Project:	Crow Flats Fed Com 1	
Lab ID:	2401878-004	Matrix:

### Client Sample ID: BES23-09 14' Collection Date: 1/19/2024 2:20:00 PM

Matrix: MEOH (SOIL)

Received Date: 1/23/2024 8:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	54	9.4	mg/Kg	1	1/23/2024 11:09:35 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	1/23/2024 11:09:35 AM
Surr: DNOP	96.6	69-147	%Rec	1	1/23/2024 11:09:35 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	24	9.6	mg/Kg	2	1/23/2024 12:40:51 PM
Surr: BFB	167	15-244	%Rec	2	1/23/2024 12:40:51 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.048	mg/Kg	2	1/23/2024 12:40:51 PM
Toluene	ND	0.096	mg/Kg	2	1/23/2024 12:40:51 PM
Ethylbenzene	ND	0.096	mg/Kg	2	1/23/2024 12:40:51 PM
Xylenes, Total	0.30	0.19	mg/Kg	2	1/23/2024 12:40:51 PM
Surr: 4-Bromofluorobenzene	89.6	39.1-146	%Rec	2	1/23/2024 12:40:51 PM
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	260	60	mg/Kg	20	1/23/2024 1:02:23 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

- н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range Reporting Limit

RL

Page 4 of 9

Client: Project:		ex Resources Se 7 Flats Fed Com		Inc.							
Sample ID:	MB-80050	SampTy	pe: <b>ME</b>	BLK	Tes	tCode: EF	PA Method	300.0: Anions	6		
Client ID:	PBS	Batch	ID: 800	050	F	RunNo: <b>10</b>	2622				
Prep Date:	1/23/2024	Analysis Da	ate: 1/2	23/2024	S	SeqNo: 37	92208	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID:	LCS-80050	SampTy	pe: <b>LC</b>	S	Tes	tCode: EF	A Method	300.0: Anions	5		
Client ID:	LCSS	Batch	ID: 800	050	F	RunNo: <b>10</b>	2622				
Prep Date:	1/23/2024	Analysis Da	ate: 1/2	23/2024	S	SeqNo: 37	92209	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	94.7	90	110			

#### Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

### Page 196 of 341

2401878

30-Jan-24

## **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

Client: Ve	rtex Resources Services, Inc.	
Project: Cro	ow Flats Fed Com 1	
Sample ID: LCS-80044	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 80044	RunNo: 102621
Prep Date: 1/23/2024	Analysis Date: 1/23/2024	SeqNo: 3791160 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO		
Surr: DNOP	4.6 5.000	92.3 69 147
Sample ID: 2401878-00	4AMS SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: BES23-09 1	4' Batch ID: 80044	RunNo: 102621
Prep Date: 1/23/2024	Analysis Date: 1/23/2024	SeqNo: 3791168 Units: mg/Kg
Analyte		SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO		
Surr: DNOP	4.5 4.440	100 69 147
Sample ID: 2401878-00	4AMSD SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: BES23-09 1	4' Batch ID: 80044	RunNo: 102621
Prep Date: 1/23/2024	Analysis Date: 1/23/2024	SeqNo: 3791169 Units: mg/Kg
Analyte		SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO		53.63 106 54.2 135 25.4 29.2
Surr: DNOP	4.9 4.921	100 69 147 0 0
Sample ID: MB-80044	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 80044	RunNo: 102621
Prep Date: 1/23/2024	Analysis Date: 1/23/2024	SeqNo: 3791174 Units: mg/Kg
Analyte		SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO		
Motor Oil Range Organics (MI Surr: DNOP	RO) ND 50 9.3 10.00	92.6 69 147
Sample ID: <b>MB-80076</b>	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 80076	RunNo: 102657
Prep Date: 1/24/2024	Analysis Date: 1/24/2024	SeqNo: 3793415 Units: %Rec
Analyte		SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	8.5 10.00	84.6 69 147
Sample ID: LCS-80076	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 80076	RunNo: <b>102657</b>
Prep Date: 1/24/2024	Analysis Date: 1/24/2024	SeqNo: 3793416 Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank В
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Sample pH Not In Range
- Р RL

Reporting Limit

2401878

30-Jan-24

Client: Project:		Resources Se lats Fed Con		, Inc.									
Sample ID: LO	CS-80076	SampT	ype: LC	S	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS Batch ID: 80076				076	F	RunNo: 10	2657						
Prep Date: 1	1/24/2024	Analysis D	ate: 1/	24/2024	SeqNo: 3793416 Units: %Rec								
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Surr: DNOP		4.4		5.000		88.4	69	147					

#### Qualifiers:

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- H Holding times for preparation or analysis exceeded
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- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

2401878

30-Jan-24

## QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:	Vertex Re Crow Flat		,	Inc.							
Sample ID:	2.5UG GRO LCS	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D: Gaso	line Range		
Client ID:	LCSS	Batch	ID: GS	102620	RunNo: 102620						
Prep Date:	1/22/2024	Analysis D	ate: 1/2	23/2024	S	SeqNo: 3	791158	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	23	5.0	25.00	0	93.8	70	130			
Surr: BFB		2100		1000		212	15	244			
Sample ID:	mb	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Range		
Client ID:	PBS	Batch	ID: GS	102620	F	RunNo: 1	02620				
Prep Date:		Analysis D	ate: 1/2	23/2024	Ş	SeqNo: 3	791159	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	ND	5.0								
Surr: BFB		980		1000		97.7	15	244			
Sample ID:	2401878-001ams	SampT	ype: <b>MS</b>	;	Tes	tCode: El	PA Method	8015D: Gaso	line Range		
Client ID:	BES23-07 12'	Batch	ID: GS	102620	F	RunNo: 1	02620				
Prep Date:		Analysis D	ate: 1/2	23/2024	Ş	SeqNo: 3	791803	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	18	3.8	18.78	0	97.0	70	130			
Surr: BFB		1600		751.3		218	15	244			
Sample ID:	2401878-001amsd	SampT	ype: MS	D	Tes	tCode: El	PA Method	8015D: Gaso	line Range		
Client ID:	BES23-07 12'	Batch	ID: GS	102620	F	RunNo: 1	02620				
Prep Date:		Analysis D	ate: 1/2	23/2024	S	SeqNo: 3	791804	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	18	3.8	18.78	0	93.8	70	130	3.40	20	
Surr: BFB		1600		751.3		217	15	244	0	0	

#### Qualifiers:

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- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

WO#: 2401878 30-Jan-24

## QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

	esources S ats Fed Cor	,	Inc.							
Sample ID: 100ng btex lcs	Samp	Туре: <b>LC</b>	S	Tes	tCode: EF	PA Method	8021B: Volati	iles		
Client ID: LCSS	Batc	h ID: <b>BS</b>	102620	F	RunNo: 10	02620				
Prep Date:	Analysis I	Date: 1/	23/2024	S	SeqNo: 37	791179	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	93.0	70	130			
Toluene	0.93	0.050	1.000	0	93.5	70	130			
Ethylbenzene	0.93	0.050	1.000	0	93.2	70	130			
Xylenes, Total	2.8	0.10	3.000	0	93.8	70	130			
Surr: 4-Bromofluorobenzene	0.90		1.000		90.0	39.1	146			
Sample ID: mb	D: mb     SampType: MBLK     TestCode: EPA Method 8021B: Volatiles									
Client ID: PBS										
Prep Date:	Analysis Date: 1/23/2024 SeqNo: 3791180 Units: mg/Kg									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.88		1.000		88.0	39.1	146			
Sample ID: 2401878-002ams	Samp	Туре: <b>МS</b>	5	Tes	tCode: EF	PA Method	8021B: Volati	iles		
Client ID: BES23-08 12'	Batc	h ID: <b>BS</b>	102620	F	RunNo: <b>1(</b>	02620				
Prep Date:	Analysis I	Date: 1/	23/2024	S	SeqNo: 37	791844	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.63	0.019	0.7513	0	83.6	70	130			
Toluene	0.64	0.038	0.7513	0	85.7	70	130			
Ethylbenzene	0.66	0.038	0.7513	0	87.4	70	130			
Xylenes, Total	2.0	0.075	2.254	0	87.5	70	130			
Surr: 4-Bromofluorobenzene	0.66		0.7513		87.5	39.1	146			
Sample ID: 2401878-002amsd	Samp	Type: MS	SD .	Tes	tCode: EF	PA Method	8021B: Volati	iles		
Client ID: BES23-08 12'	Batc	h ID: <b>BS</b>	102620	F	RunNo: <b>1(</b>	02620				
	Analyzia	Analysis Date: 1/23/2024 SeqNo: 3791845 Units: mg/Kg								
Prep Date:	Analysis I									<u> </u>
Analyte	Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	Result 0.61		0.7513	SPK Ref Val 0	81.2	70	HighLimit 130	2.94	RPDLimit 20	Qual
Analyte Benzene	Result	PQL					-			Qual
Analyte	Result 0.61	PQL 0.019	0.7513	0	81.2	70	130	2.94	20	Qual
Analyte Benzene Toluene	Result 0.61 0.62	PQL 0.019 0.038	0.7513 0.7513	0 0	81.2 82.8	70 70	130 130	2.94 3.44	20 20	Qual

#### Qualifiers:

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- H Holding times for preparation or analysis exceeded
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- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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2401878

30-Jan-24

# 🔅 eurofins

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#### Eurofins Environment Testing South Central, LLC 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

## Sample Log-In Check List

			,	Vebsite: www.h	allenvii Oni	nemai.com		
Client Name:	Vertex Res	ources	Work	Order Number	: 240187	8	RcptNo:	1
Received By:	Joseph Al	derette	1/23/202	24 8:15:00 AN	I	JH.		
Completed By: Reviewed By: $S$	Desiree D	ominguez 1/33/24	1/23/20	24 8:26:44 AN	I	P2		
Chain of Cust								
1. Is Chain of Cu					Yes 🗹	' No 🗌	Not Present	
2. How was the s	ample deliv	ered?			<u>Courier</u>			
Log In 3. Was an attemp	ot made to c	ool the sampl	es?		Yes 🔽	No 🗌		
4. Were all sampl	es received	at a temperat	ure of >0° C t	to 6.0°C	Yes 🗸	No 🗌		
5. Sample(s) in p	roper contai	ner(s)?			Yes 🔽	No 🗌		
6. Sufficient samp	ile volume fo	or indicated te	st(s)?		Yes 🗹	No 🗌		
7. Are samples (e	xcept VOA	and ONG) pro	perly preserve	ed?	Yes 🗹	No 🗌		
8. Was preservati	ve added to	bottles?			Yes	No 🔽	NA 🗌	
9. Received at lea	ist 1 vial wit	h headspace ·	<1/4" for AQ V	'OA?	Yes	No	NA 🗹	
10, Were any sam	ple containe	ers received bi	roken?		Yes	No 🔽	# of preserved	1
11.Does paperwor (Note discrepar			•		Yes 🔽	No 🗌	bottles checked for pH:	>12 unless noted)
12. Are matrices co	prrectly iden	tified on Chair	of Custody?		Yes 🔽	No 🗌	Adjusted?	
13. Is it clear what	analyses we	ere requested	?		Yes 🗹	No 🗌		4
14. Were all holdin (If no, notify cu	-				Yes 🗹	No	Checked by:	1 1-23.2
Special Handli								
15. Was client not			vith this order?	,	Yes	No 🗌	NA 🗹	
Person N	lotified:			Date:				
By Whor	n:	[		Via:	eMail	🗌 Phone 🗌 Fax	In Person	
Regardir	ng:	ſ						
Client In	structions:							
16. Additional rem	narks:							
17. <u>Cooler Inform</u>				a: a				
Cooler No	Temp °C	Condition	Seal Intact		Seal Date	Signed By		
1	4.0	Good	Yes	Yogi				

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Page 202 of 341 HALL ENVTRONMENTAL	ANALYSIS LABORATORY	Albuquerque, NM 87109	505-345-4107	equest	()104	9sdA\t	uəs	_	_		) 0728 Dital (									cdixon@vertex.ca
HALL ENVI	ANALYSIS LABC	4901 Hawkins NE - Albuquer	Tel. 505-345-3975 Fax 5(	Analysis Request		S '⁺Od SWIS	072	01 8 5 1	10 stals stals 10 ³	58 Yd 8 Mg 8r, 1 70A	EDB (I	×								Remarks: Resurts to: cdi)
		$\rightarrow$	Tel. 5	N-H-WAR	(0)	AM \ C	שאמ	/0	ีย)		X 3178	X			1 1					Remarks:
Turn-Around Time: <del></del>		Crow Flats Fed Com	Project #: しいし、 「 し、 て れ の し り	00000 DC7	Project Manager:	C. DIVON	Sampler: A MUNU		olers: / .	(Including CF): 3. 8 + 0.2 = 1,0	Container Preservative HEAL No. Type and # Type	3	- 003	-003	h00-					Received by: Via: Date Time
	Proj		Proj		Proj	ation)	1	On Ice:	# of	Co	Con	12, 40	12'	12'	. <u>.</u>					
Received by OCD: 7/9/2024 1:19:06 PM Chain-of-Custody Record	Client: EOG (VENTEX)	un file				□ Level 4 (Full Validation)					Matrix Sample Name	RES23-07	BES23- 08	BES23-06					-	Relinquiarted by
ceived by OCD Chain	lient: HOG	Mailing Address:		Phone #:	email or Fax#:	QA/QC Package:	Accreditation:	D NELAC			Date	19:51	10:00	10:02	N:20					Date: Time:

Released if necessary samples subgrituding the supcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report. Culture un Hall Er

8:15

1-23.24

COUNTE ZZ-

Received by: CM/

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Date Time



Environment Testing

Eurofins Environment Testing South Central, LLC 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

January 30, 2024 Chance Dixon EOG 105 South Fourth Street Artesia, NM 88210 TEL: FAX:

RE: Crow Flats Fed COM 1

OrderNo.: 2401925

Dear Chance Dixon:

Eurofins Environment Testing South Central, LLC received 3 sample(s) on 1/24/2024 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2401925

Date Reported: 1/30/2024

CLIENT:	EOG	C	Client Sample ID: WES23-03 0-6'
Project:	Crow Flats Fed COM 1		Collection Date: 1/22/2024 11:40:00 AM
Lab ID:	2401925-001	Matrix: MEOH (SOIL)	Received Date: 1/24/2024 7:15:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	КСВ
Chloride	650	60	mg/Kg	20	1/25/2024 12:59:28 PM	80097
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	JKU
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	1/24/2024 1:02:42 PM	80061
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	1/24/2024 1:02:42 PM	80061
Surr: DNOP	90.8	69-147	%Rec	1	1/24/2024 1:02:42 PM	80061
EPA METHOD 8015D: GASOLINE RANGE					Analyst	JJP
Gasoline Range Organics (GRO)	ND	3.8	mg/Kg	1	1/24/2024 11:56:26 AM	GS10264
Surr: BFB	99.3	15-244	%Rec	1	1/24/2024 11:56:26 AM	GS10264
EPA METHOD 8021B: VOLATILES					Analyst	JJP
Benzene	ND	0.019	mg/Kg	1	1/24/2024 11:56:26 AM	BS10264
Toluene	ND	0.038	mg/Kg	1	1/24/2024 11:56:26 AM	BS10264
Ethylbenzene	ND	0.038	mg/Kg	1	1/24/2024 11:56:26 AM	BS10264
Xylenes, Total	ND	0.075	mg/Kg	1	1/24/2024 11:56:26 AM	BS10264
Surr: 4-Bromofluorobenzene	88.8	39.1-146	%Rec	1	1/24/2024 11:56:26 AM	BS10264

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- В Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 1 of 7

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2401925

Date Reported: 1/30/2024

<b>CLIENT</b> :	EOG	С	Client Sample ID: WES23-04 0-6'
<b>Project:</b>	Crow Flats Fed COM 1		Collection Date: 1/22/2024 2:10:00 PM
Lab ID:	2401925-002	Matrix: MEOH (SOIL)	Received Date: 1/24/2024 7:15:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	SNS
Chloride	540	60	mg/Kg	20	1/24/2024 12:11:08 PM	80070
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	JKU
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	1/24/2024 1:14:45 PM	80061
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	1/24/2024 1:14:45 PM	80061
Surr: DNOP	94.1	69-147	%Rec	1	1/24/2024 1:14:45 PM	80061
EPA METHOD 8015D: GASOLINE RANGE					Analyst	JJP
Gasoline Range Organics (GRO)	ND	3.5	mg/Kg	1	1/24/2024 12:20:06 PM	GS10264
Surr: BFB	96.9	15-244	%Rec	1	1/24/2024 12:20:06 PM	GS10264
EPA METHOD 8021B: VOLATILES					Analyst	JJP
Benzene	ND	0.018	mg/Kg	1	1/24/2024 12:20:06 PM	BS10264
Toluene	ND	0.035	mg/Kg	1	1/24/2024 12:20:06 PM	BS10264
Ethylbenzene	ND	0.035	mg/Kg	1	1/24/2024 12:20:06 PM	BS10264
Xylenes, Total	ND	0.071	mg/Kg	1	1/24/2024 12:20:06 PM	BS10264
Surr: 4-Bromofluorobenzene	86.4	39.1-146	%Rec	1	1/24/2024 12:20:06 PM	BS10264

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- В Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits Р Sample pH Not In Range
- RL Reporting Limit

Page 2 of 7

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2401925

Date Reported: 1/30/2024

CLIENT:	EOG	С	lient Sample ID: WES23-04 6-12'
<b>Project:</b>	Crow Flats Fed COM 1		Collection Date: 1/22/2024 2:15:00 PM
Lab ID:	2401925-003	Matrix: MEOH (SOIL)	Received Date: 1/24/2024 7:15:00 AM

Analyses	Result	RL (	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	КСВ
Chloride	590	60	mg/Kg	20	1/25/2024 1:14:37 PM	80097
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	JKU
Diesel Range Organics (DRO)	60	8.8	mg/Kg	1	1/24/2024 1:27:01 PM	80061
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	1/24/2024 1:27:01 PM	80061
Surr: DNOP	85.7	69-147	%Rec	1	1/24/2024 1:27:01 PM	80061
EPA METHOD 8015D: GASOLINE RANGE					Analyst	JJP
Gasoline Range Organics (GRO)	ND	3.7	mg/Kg	1	1/24/2024 12:43:54 PM	GS10264
Surr: BFB	98.3	15-244	%Rec	1	1/24/2024 12:43:54 PM	GS10264
EPA METHOD 8021B: VOLATILES					Analyst	JJP
Benzene	ND	0.018	mg/Kg	1	1/24/2024 12:43:54 PM	BS10264
Toluene	ND	0.037	mg/Kg	1	1/24/2024 12:43:54 PM	BS10264
Ethylbenzene	ND	0.037	mg/Kg	1	1/24/2024 12:43:54 PM	BS10264
Xylenes, Total	ND	0.074	mg/Kg	1	1/24/2024 12:43:54 PM	BS10264
Surr: 4-Bromofluorobenzene	88.5	39.1-146	%Rec	1	1/24/2024 12:43:54 PM	BS10264

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- В Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range RL Reporting Limit

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## QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

2401925	WO#:
30-Jan-24	

Client: Project:	EOG Crow Fla	ts Fed COM 1								
Sample ID:	MB-80070	SampType: MBLK		Test	Code: EP	A Method	300.0: Anions			
Client ID:	PBS	Batch ID: 80070		R	unNo: <b>10</b>	2655				
Prep Date:	1/24/2024	Analysis Date: 1/24/2	2024	S	eqNo: 37	93184	Units: mg/Kg	9		
Analyte		Result PQL S	PK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND 1.5								
Sample ID:	LCS-80070	SampType: LCS		Test	Code: EP	A Method	300.0: Anions			
Client ID:	LCSS	Batch ID: 80070		R	unNo: <b>10</b>	2655				
Prep Date:	1/24/2024	Analysis Date: 1/24/2	2024	S	eqNo: 37	93185	Units: mg/Kg	9		
Analyte		Result PQL S	PK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14 1.5	15.00	0	95.1	90	110			
Sample ID:	MB-80097	SampType: mblk		Test	Code: EP	A Method	300.0: Anions			
Client ID:	PBS	Batch ID: 80097		R	unNo: <b>10</b>	2684				
Prep Date:	1/25/2024	Analysis Date: 1/25/2	2024	S	eqNo: 37	94754	Units: mg/Kg	9		
Analyte		Result PQL S	PK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND 1.5								
Sample ID:	LCS-80097	SampType: Ics		Test	Code: EP	A Method	300.0: Anions			
Client ID:	LCSS	Batch ID: 80097		R	unNo: <b>10</b>	2684				
Prep Date:	1/25/2024	Analysis Date: 1/25/2	2024	S	eqNo: 37	94755	Units: mg/Kg	9		
Analyte		Result PQL S	PK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14 1.5	15.00	0	95.1	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Released to Imaging: 7/9/2024 2:25:28 PM

**Client:** 

**Project:** 

Client ID:

Prep Date:

Surr: DNOP

Prep Date:

Analyte

Analvte

Sample ID: MB-80061

Diesel Range Organics (DRO) Motor Oil Range Organics (MRO)

Sample ID: LCS-80061 Client ID: LCSS

PBS

1/24/2024

1/24/2024

## **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

Analysis Date: 1/24/2024

PQL

Result

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EOG Crow Fl	ats Fed CO	M 1								
061	SampT	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8015M/D: Die	sel Range	Organics	
	Batch	h ID: 80	061	F	RunNo: 10	02657				
2024	Analysis D	Date: 1/	24/2024	S	SeqNo: 37	792423	Units: mg/K	g		
	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
(DRO)	ND	10								
cs (MRO)	ND	50								
	9.0		10.00		90.1	69	147			
0061	SampT	Гуре: <b>LC</b>	S	Tes	stCode: El	PA Method	8015M/D: Die	sel Range	Organics	
	Batcl	h ID: 80	061	F	RunNo: 10	02657				

LowLimit

Units: mg/Kg

HighLimit

SeqNo: 3792424

Diesel Range Organics (DRO) Surr: DNOP	42 4.3	10 50.00 5.000	0	84.3 85.7	61.9 69	130 147			
Sample ID: MB-80076	SampType	MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID:	80076	F	RunNo: 102	2657				
Prep Date: 1/24/2024	Analysis Date:	1/24/2024	S	SeqNo: 379	93415	Units: %Rec			
Analyte	Result P	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.5	10.00	84.6 69 147						
Sample ID: LCS-80076	SampType	LCS	Tes	tCode: EPA	A Method	8015M/D: Dies	el Range	Organics	
Client ID: LCSS	Batch ID:	80076	F	RunNo: 102	2657				
Prep Date: 1/24/2024	Analysis Date:	1/24/2024	S	SeqNo: 379	93416	Units: %Rec			
Analyte	Result P	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.4	5.000		88.4	69	147			

SPK value SPK Ref Val %REC

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- в Analyte detected in the associated Method Blank
- Е
- J
- Sample pH Not In Range Р
- Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- RL Reporting Limit

WO#: 2401925 30-Jan-24

RPDLimit

Qual

%RPD

EOG

**Client:** 

**Project:** 

Sample ID: 2.5ug gro Ics

Client ID: LCSS

## **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

SampType: LCS

Batch ID: GS102647

Crow Flats Fed COM 1

Prep Date:	Analysis [	Date: 1/	24/2024	5	SeqNo: 37	792240	Units: <b>mg/K</b>	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.2	70	130			
Surr: BFB	2100		1000		214	15	244			
Sample ID: <b>mb</b>	SampT	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8015D: Gaso	line Range	•	
Client ID: PBS	Batcl	h ID: GS	102647	F	RunNo: <b>1(</b>	02647				
Prep Date:	Analysis E	Date: 1/	24/2024	S	SeqNo: 37	792241	Units: <b>mg/K</b>	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	990		1000		99.1	15	244			

TestCode: EPA Method 8015D: Gasoline Range

RunNo: 102647

- Qualifiers:
  - * Value exceeds Maximum Contaminant Level.
  - D Sample Diluted Due to Matrix
  - Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value
- Р

- J Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

- WO#: 2401925 30-Jan-24

## **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

Released to Imaging: 7/9/2024 2:25:28 PM

Value exceeds Maximum Contaminant Level.

Holding times for preparation or analysis exceeded

% Recovery outside of standard limits. If undiluted results may be estimated.

Sample Diluted Due to Matrix

Practical Quanitative Limit

Not Detected at the Reporting Limit

**Qualifiers:** 

*

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B Analyte detected in the associated Method Blan
--------------------------------------------------

- on Range/Estimated Value
- J
- RL Reporting Limit
- Analyte detected below quantitation limits
- Р Sample pH Not In Range

### WO#: 30-Jan-24

**Client:** EOG **Project:** Crow Flats Fed COM 1

Sample ID: 100ng btex Ics	Samp	Type: LC	S	TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batc	h ID: <b>BS</b>	102647	F	RunNo: 102647					
Prep Date:	Analysis [	Analysis Date: 1/24/2024			SeqNo: 37	792243	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	90.9	70	130			
Toluene	0.91	0.050	1.000	0	91.2	70	130			
Ethylbenzene	0.92	0.050	1.000	0	92.2	70	130			
Xylenes, Total	2.8	0.10	3.000	0	92.8	70	130			
Surr: 4-Bromofluorobenzene	0.91		1.000		91.2	39.1	146			
Sample ID: <b>mb</b>	Samp	Гуре: <b>МВ</b>	LK	Tes	tCode: EF	PA Method	8021B: Volati	les		
Sample ID: mb Client ID: PBS		Гуре: <b>МВ</b> h ID: <b>BS</b>			tCode: EF		8021B: Volati	les		
		h ID: BS	102647	F		02647	8021B: Volati Units: mg/K			
Client ID: PBS	Batc	h ID: BS	102647	F	RunNo: <b>1(</b>	02647			RPDLimit	Qual
Client ID: <b>PBS</b> Prep Date:	Batcl Analysis [	h ID: <b>BS</b> Date: <b>1/2</b>	102647 24/2024	F	RunNo: <b>1(</b> SeqNo: <b>3</b> 7	02647 792244	Units: <b>mg/K</b>	g	RPDLimit	Qual
Client ID: <b>PBS</b> Prep Date: Analyte	Batc Analysis I Result	h ID: <b>BS</b> Date: <b>1/2</b> PQL	102647 24/2024	F	RunNo: <b>1(</b> SeqNo: <b>3</b> 7	02647 792244	Units: <b>mg/K</b>	g	RPDLimit	Qual
Client ID: <b>PBS</b> Prep Date: Analyte Benzene	Batc Analysis [ Result ND	h ID: <b>BS</b> Date: <b>1/2</b> PQL 0.025	102647 24/2024	F	RunNo: <b>1(</b> SeqNo: <b>3</b> 7	02647 792244	Units: <b>mg/K</b>	g	RPDLimit	Qual
Client ID: <b>PBS</b> Prep Date: Analyte Benzene Toluene	Batc Analysis [ Result ND ND	h ID: <b>BS</b> Date: <b>1/2</b> PQL 0.025 0.050	102647 24/2024	F	RunNo: <b>1(</b> SeqNo: <b>3</b> 7	02647 792244	Units: <b>mg/K</b>	g	RPDLimit	Qual

2401925

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E	Above Quantitatio	n

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Eurofins Environment Testing South Central, LLC 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

## Sample Log-In Check List

			Vebsite: www.h	allenvii	onmer	nal.com			
Client Name: EOG		Work	Order Numbe	r: 240	1925			RcptNo: 1	
Received By: Tracy Cas	arrubias	1/24/202	24 7:15:00 AN	4					
Completed By: Tracy Cas	arrubias	1/24/202	24 8:00:35 AN	1					
Reviewed By: OWC	~	1/24	1/24						
Chain of Custody							AL6 171		
1. Is Chain of Custody comp	lete?			Yes		No	$\checkmark$	Not Present	
2. How was the sample deliv	ered?			<u>Cou</u>	rier				
Log In									
3. Was an attempt made to c	ool the sample	s?		Yes	✓	No		NA 🗌	
4. Were all samples received	at a temperatu	rreof>0°Ct	o 6.0°C	Yes	✓	No			
5. Sample(s) in proper contain	ner(s)?			Yes	$\checkmark$	No			
6. Sufficient sample volume f	or indicated tes	it(s)?		Yes	$\checkmark$	No			
7. Are samples (except VOA	and ONG) prop	erly preserve	ed?	Yes	$\checkmark$	No			
8. Was preservative added to	bottles?			Yes		No		NA 🗔	
9. Received at least 1 vial wit	h headspace <	1/4" for AQ V	OA?	Yes		No			
10. Were any sample containe	ers received bro	oken?		Yes		No		# of preserved	-
11. Does paperwork match bo	Ho lobolo?			Yes		No		bottles checked	
(Note discrepancies on cha				165		110			unless noted)
12. Are matrices correctly iden	tified on Chain	of Custody?		Yes	$\checkmark$	No		Adjusted	
13. Is it clear what analyses w	ere requested?			Yes	$\checkmark$	No		1 SCN	n huhu
14. Were all holding times able (If no, notify customer for a				Yes	$\checkmark$	No		Checked by UI	1 107/01
Special Handling (if ap									
15. Was client notified of all d		ith this order?	,	Yes		No		NA 🗹	
Person Notified:	[		Date:						
By Whom:	,		Via:	eM	ail	Phone	Fax	In Person	
Regarding	[		Contraction of the						
Client Instructions:	Mailing addres	s.phone num	ber and Emai	l/Fax a	re mis	sina on CO	C- TM	C 1/24/24	
16. Additional remarks:									
17. Cooler Information									
Cooler No Temp °C		Seal Intact		Seal D	ate	Signed	Ву		
1 0.8	Good	Yes	Yogi						

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TITE ON VERY AND THE AREA TO T	Chain-of-Custody	Client: FOG く
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	ANALYSIS LABORATORY	www.hallenvironmental.com	4901 Hawkins NE - Albuquerque, NM 87109	Tel. 505-345-3975 Fax 505-345-4107	Anal	*0°	S '*O SWI \$,8C	) S0, S0,	NO ² 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,10 10,100 10,100 10,100 10,100 10,100 10,100 10,100 10,100 10,100 10,100 10,100 10,100 10,100 10,100 10,100 10,100 10,100 10,100 10,100 10,100 10,100 10,100 10,100 10,100 10,100 10,100 10,100 10,100 10,100 10,100 10,100 10,100 10,100 10,100 10,100 10,100 10,100 10,100 10,100 10,100 10,100 10,100 10,100 10,10	(O∖ ) ^{3°} 112 0 01 62\ 50	D)(G cid 31( 643 ( 7)	1150 VOY Br, Br, Sen	3TEX 3260 ( 3281 P 3260 ( 3286 ( 3286 ( 3286 ( 3286 ( 3286 ( 3286 ( 3286 ( 3286 ( 3286 ( 3887 ( 387))))))))))))))))))))))))))))))))))))									Remarks:	RSWTS to COUX MO VOTOX CA			Decessory, 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.
Turn-Around Time:	Candard & Rush SAML day	Project Name:	Crow Flots Fed Com 1	Project #:	23-5-05895	Project Manager:	C. Driv and			On Ice: VYes DNo 100		Cooler Temp(Including CF): 0.4 -0.1-0.8 (°C)	Container Preservative HEAL No.	31,		003					1	Received by: Via: Date Time		Received by: Via: Counter Date Time	SI:4.	ontracted to other accredited laboratories. This serves as notice of thi
Chain-of-Custody Record	Client: EOG (VECTEX)		Mailing Address: ON FIL		Dt+0-0-4:	Eax#:	ö	Standard     Level 4 (Full Validation)	□ Az Compliance					WE523- 03 0-6	101:10 1 WES23-04 0-6		•					ime: Relinquisbed by		ime: Rélinquished by:	12/24 Igm addition	Dolorsond If necessary, semples submitted to Hall Environmental may be subo



Eurofins Environment Testing South Central, LLC 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

January 30, 2024

Chance Dixon Vertex Resources Services, Inc. 3101 Boyd Drive Carlsbad, NM 88220 TEL: (505) 506-0040 FAX:

RE: Crow Flats Fed Com 1

OrderNo.: 2401A13

Dear Chance Dixon:

Eurofins Environment Testing South Central, LLC received 3 sample(s) on 1/25/2024 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the OC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Lab ID:

**Analytical Report** 

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2401A13

Date Reported: 1/30/2024

CLIENT:	Vertex Resources Services, Inc.
Project:	Crow Flats Fed Com 1

2401A13-001

Client Sample ID: WES23-02 0-6' Collection Date: 1/23/2024 11:05:00 AM

Matrix: MEOH (SOIL)

Received Date: 1/25/2024 7:50:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: <b>JKU</b>
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	1/25/2024 12:13:05 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	1/25/2024 12:13:05 PM
Surr: DNOP	80.5	69-147	%Rec	1	1/25/2024 12:13:05 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.2	mg/Kg	1	1/25/2024 11:33:18 AM
Surr: BFB	97.8	15-244	%Rec	1	1/25/2024 11:33:18 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.021	mg/Kg	1	1/25/2024 11:33:18 AM
Toluene	ND	0.042	mg/Kg	1	1/25/2024 11:33:18 AM
Ethylbenzene	ND	0.042	mg/Kg	1	1/25/2024 11:33:18 AM
Xylenes, Total	ND	0.083	mg/Kg	1	1/25/2024 11:33:18 AM
Surr: 4-Bromofluorobenzene	86.7	39.1-146	%Rec	1	1/25/2024 11:33:18 AM
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	460	60	mg/Kg	20	1/25/2024 1:29:47 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 1 of 7

Lab ID:

**Analytical Report** 

## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2401A13

Date Reported: 1/30/2024

CLIENT:	Vertex Resources Services, Inc.
Project:	Crow Flats Fed Com 1

2401A13-002

Client Sample ID: BES23-10 12' Collection Date: 1/23/2024 2:20:00 PM

Matrix: MEOH (SOIL)

Received Date: 1/25/2024 7:50:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: <b>JKU</b>
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	1/25/2024 12:25:15 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	1/25/2024 12:25:15 PM
Surr: DNOP	76.5	69-147	%Rec	1	1/25/2024 12:25:15 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	3.7	mg/Kg	1	1/25/2024 11:57:08 AM
Surr: BFB	96.2	15-244	%Rec	1	1/25/2024 11:57:08 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.018	mg/Kg	1	1/25/2024 11:57:08 AM
Toluene	ND	0.037	mg/Kg	1	1/25/2024 11:57:08 AM
Ethylbenzene	ND	0.037	mg/Kg	1	1/25/2024 11:57:08 AM
Xylenes, Total	ND	0.074	mg/Kg	1	1/25/2024 11:57:08 AM
Surr: 4-Bromofluorobenzene	87.0	39.1-146	%Rec	1	1/25/2024 11:57:08 AM
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	360	60	mg/Kg	20	1/25/2024 1:44:56 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range Reporting Limit

RL

Page 2 of 7

Lab ID:

**Analytical Report** 

## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2401A13

Date Reported: 1/30/2024

CLIENT:	Vertex Resources Services, Inc.
Project:	Crow Flats Fed Com 1

2401A13-003

Client Sample ID: BES23-11 12' Collection Date: 1/23/2024 2:25:00 PM

Matrix: MEOH (SOIL)

Received Date: 1/25/2024 7:50:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: <b>JKU</b>
Diesel Range Organics (DRO)	23	8.7	mg/Kg	1	1/25/2024 12:37:35 PM
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	1/25/2024 12:37:35 PM
Surr: DNOP	80.3	69-147	%Rec	1	1/25/2024 12:37:35 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	3.4	mg/Kg	1	1/25/2024 12:20:52 PM
Surr: BFB	100	15-244	%Rec	1	1/25/2024 12:20:52 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.017	mg/Kg	1	1/25/2024 12:20:52 PM
Toluene	ND	0.034	mg/Kg	1	1/25/2024 12:20:52 PM
Ethylbenzene	ND	0.034	mg/Kg	1	1/25/2024 12:20:52 PM
Xylenes, Total	ND	0.069	mg/Kg	1	1/25/2024 12:20:52 PM
Surr: 4-Bromofluorobenzene	89.6	39.1-146	%Rec	1	1/25/2024 12:20:52 PM
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	680	60	mg/Kg	20	1/25/2024 2:00:06 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range Reporting Limit

RL

Page 3 of 7
Client: Project:		tex Resources Ser w Flats Fed Com		Inc.								
Sample ID:	MB-80097	SampTyp	lk	TestCode: EPA Method 300.0: Anions								
Client ID:	PBS	Batch II	)97	RunNo: 102684								
Prep Date:	1/25/2024	Analysis Dat	25/2024	S	SeqNo: 37	794754	Units: mg/K	g				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride		ND	1.5									
Sample ID:	LCS-80097	SampTyp	e: Ics		TestCode: EPA Method 300.0: Anions							
Client ID:	LCSS	Batch II	D: <b>80</b> 0	)97	F	RunNo: <b>1(</b>	)2684					
Prep Date:	1/25/2024	Analysis Dat	e: 1/2	25/2024	S	SeqNo: 37	794755	Units: mg/K	g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride		14	1.5	15.00	0	95.1	90	110				

#### Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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2401A13

30-Jan-24

Client: Project:	Vertex Re Crow Flat			Inc.								
Sample ID:	MB-80090	SampT	уре: <b>МЕ</b>	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	Organics		
Client ID:	PBS	Batch	n ID: 80	090	RunNo: 102682							
Prep Date:	1/25/2024	Analysis D	ate: 1/	25/2024	SeqNo: <b>3793405</b> Units: <b>mg/Kg</b>							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range	Organics (DRO)	ND	10					-				
Motor Oil Rang	e Organics (MRO)	ND	50									
Surr: DNOP		8.6		10.00		85.8	69	147				
Sample ID:	LCS-80090	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	Organics		
Client ID:	LCSS	Batch	n ID: 80	090	F	RunNo: <b>1(</b>	02682					
Prep Date:	1/25/2024 Analysis Date: 1/25/2024				5	SeqNo: 3793406 Units: mg/Kg						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range	Organics (DRO)	39	10	50.00	0	77.1	61.9	130				
Surr: DNOP		4.3		5.000		86.1	69	147				
Sample ID:	2401A13-002AMS	SampT	уре: МS	5	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	Organics		
Client ID:	BES23-10 12'	Batch	n ID: 80	090	F	RunNo: <b>10</b>	02682					
Prep Date:	1/25/2024	Analysis D	ate: 1/	25/2024	S	SeqNo: 37	793453	Units: mg/K	(g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range	Organics (DRO)	36	9.2	45.87	0	79.2	54.2	135				
Surr: DNOP		3.7		4.587		79.7	69	147				
Sample ID:	2401A13-002AMSD	SampT	уре: МЗ	D	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	Organics		
Client ID:	BES23-10 12'	Batch	n ID: 80	090	F	RunNo: <b>1(</b>	02682					
Prep Date:	1/25/2024	Analysis D	ate: 1/	25/2024	S	SeqNo: 37	793454	Units: mg/K	(g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range	Organics (DRO)	40	9.6	48.17	0	82.8	54.2	135	9.27	29.2		
Surr: DNOP		4.0		4.817		82.7	69	147	0	0		

#### Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

2401A13

30-Jan-24

Client: Project:	Vertex Re Crow Flat		,	Inc.												
Sample ID:	2.5ug gro lcs	SampT	уре: <b>LC</b>	S	Tes	tCode: El	PA Method	8015D: Gaso	: Gasoline Range							
Client ID:	LCSS	Batch	n ID: <b>GS</b>	102681	RunNo: 102681											
Prep Date:		Analysis D	Date: 1/2	25/2024	S	SeqNo: 37	793388	Units: <b>mg/k</b>	٢g							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual					
Gasoline Rang	e Organics (GRO)	23	5.0	25.00	0	92.1	70	130								
Surr: BFB		2100		1000		206	15	244								
Sample ID:	mb	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Range							
Client ID:	PBS	Batch	n ID: <b>GS</b>	102681	F	RunNo: 10	02681									
Prep Date:		Analysis D	Date: 1/2	25/2024	S	SeqNo: 37	793389	Units: <b>mg/k</b>	٢g							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual					
Gasoline Rang	e Organics (GRO)	ND	5.0													
Surr: BFB		970		1000		97.0	15	244								
Sample ID:	2401a13-001ams	SampT	уре: <b>МS</b>	;	Tes	tCode: EF	PA Method	8015D: Gaso	line Range							
Client ID:	WES23-02 0-6'	Batch	n ID: <b>GS</b>	102681	F	RunNo: 10	02681									
Prep Date:		Analysis D	Date: 1/2	25/2024	S	SeqNo: 3	795016	Units: <b>mg/k</b>	ζg							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual					
Gasoline Rang	e Organics (GRO)	19	4.2	20.78	0	92.6	70	130								
Surr: BFB		1800		831.3		212	15	244								
Sample ID:	2401a13-001amsd	SampT	ype: MS	D.	Tes	tCode: EF	PA Method	8015D: Gaso	line Range							
Client ID:	WES23-02 0-6'	Batch	n ID: <b>GS</b>	102681	F	RunNo: 10	02681									
Prep Date:		Analysis D	Date: 1/2	25/2024	S	SeqNo: 37	795017	Units: mg/k	٤g							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual					
Gasoline Rang	e Organics (GRO)	19	4.2	20.78	0	92.7	70	130	0.173	20						
	,e e.gaee (e.te)			2011 0	•	02.1			0.110	=•						

#### Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

30-Jan-24

2401A13

	esources S ats Fed Co	,	Inc.							
Sample ID: 100ng btex lcs	Samp	Туре: <b>LC</b>	s	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batc	h ID: <b>BS</b>	102681	F	RunNo: <b>1(</b>					
Prep Date:	Analysis I	Date: 1/2	25/2024	SeqNo: 3793394 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	89.7	70	130			
Toluene	0.90	0.050	1.000	0	90.4	70	130			
Ethylbenzene	0.92	0.050	1.000	0	91.6	70	130			
Xylenes, Total	2.8	0.10	3.000	0	92.5	70	130			
Surr: 4-Bromofluorobenzene	0.93		1.000		93.4	39.1	146			
Sample ID: <b>mb</b>	Samp	Туре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: PBS	PBS         Batch ID:         BS102681					02681				
Prep Date:	Analysis I	Date: 1/2	25/2024	S	SeqNo: 37	793395	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.88		1.000		87.8	39.1	146			
Sample ID: 2401a13-002ams	Samp	Type: MS	;	TestCode: EPA Method 8021B: Volatiles						
Client ID: BES23-10 12'	Batc	h ID: <b>BS</b>	102681	F	RunNo: <b>1(</b>					
Prep Date:	Analysis I	Date: 1/2	25/2024	SeqNo: <b>3795035</b> Units: <b>mg/Kg</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.64	0.018	0.7375	0	86.4	70	130			
Toluene	0.65	0.037	0.7375	0	88.6	70	130			
Ethylbenzene	0.66	0.037	0.7375	0	89.5	70	130			
Xylenes, Total	2.0	0.074	2.213	0	90.5	70	130			
Surr: 4-Bromofluorobenzene	0.67		0.7375		90.2	39.1	146			
Sample ID: 2401a13-002amsc	I Samp	Type: MS	D	Tes	tCode: EF	A Method	8021B: Volat	iles		
Client ID: BES23-10 12'	Batc	h ID: <b>BS</b>	102681	F	RunNo: <b>1(</b>	02681				
Prep Date:	Analysis I	Date: 1/2	25/2024	S	SeqNo: 37	795036	Units: mg/K	ſg		
Analyte	Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.62	0.018	0.7375	0	84.4	70	130	2.32	20	
Toluene	0.63	0.037	0.7375	0	86.0	70	130	2.98	20	
Ethylbenzene	0.65	0.037	0.7375	0	87.5	70	130	2.34	20	
Xylenes, Total	2.0	0.074	2.213	0	88.7	70	130	2.04	20	
Aylenes, Total	2.0	0.074	2.213	0	00.7	70	150	2.04	20	

#### Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 7 of 7

WO#: 2401A13 30-Jan-24 🔅 eurofins

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Environm	ient	Testin	ì

Eurofins Environment Testing South Central, LLC 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

# Sample Log-In Check List

	Website: www.ha	llenvir	onmeni	<u></u>		
Client Name: Vertex Resources	Work Order Number:	2401	A13		RcptNo	1
Received By: Cheyenne Cason	1/25/2024 7:50:00 AM			Chenl Chenl		
	1/25/2024 7:56:53 AM			Chenel		
Reviewed By: 1-25-24						
<i>Chain of Custody</i>						
1. Is Chain of Custody complete?		Yes	$\checkmark$	No 🗌	Not Present	
2. How was the sample delivered?		<u>Cou</u>	<u>ier</u>			
<u>Log In</u>			_			
3. Was an attempt made to cool the samples?		Yes	V	No 🗌	NA	
4. Were all samples received at a temperature of	>0° C to 6.0°C	Yes		No 🗌	NA 🗌	
5. Sample(s) in proper container(s)?		Yes	V	No 🗌		
6. Sufficient sample volume for indicated test(s)?		Yes	$\checkmark$	No 🗌		
7. Are samples (except VOA and ONG) properly	preserved?	Yes	$\checkmark$	No 🗌		
8. Was preservative added to bottles?		Yes		No 🗹	NA 🗌	
9. Received at least 1 vial with headspace <1/4"	for AQ VOA?	Yes		No 🗌	NA 🗹	
10. Were any sample containers received broken	?	Yes		No 🗹	# of preserved	
11. Does paperwork match bottle labels?		Yes	$\checkmark$	No 🗌	bottles checked for pH:	
(Note discrepancies on chain of custody)					(<2 o Adjusted?	r >12 unlese noted)
12. Are matrices correctly identified on Chain of C	ustody?	Yes		No 🛄	Adjusied?	
13. Is it clear what analyses were requested?		Yes		No 🛄	Chacked by:	Jaclay
<ol> <li>Were all holding times able to be met? (If no, notify customer for authorization.)</li> </ol>		Yes		No 🗔 🎍	Checked by:	105/07
Special Handling (if applicable)						
15. Was client notified of all discrepancies with the	is order?	Yes		No 🗌	NA 🔽	-
Person Notified:	Date:					
By Whom:	Via:	eM	ail	Phone 🗌 Fax	In Person	
Regarding:						
Client Instructions:						
16. Additional remarks:						
17. Cooler Information						
	al Intact Seal No	Seal D	ate	Signed By		
1 3.5 Good Not	Present Yogi					

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0CD: 7
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Page 222 of 341	HALL ENVIDONMENTAL	ANALYSIS LABORATORY	nental com	Albuquerque, NM 87109	Fax 505-345-4107	Request	(104	əsdA\t		_			) 0728 ) lsĵoT								rdiven @ vertex. ra		
		ANALYSIS	www hallenvironmental com	4901 Hawkins NE - Albuque		Anal	(0)	PCB's D / MR	л DR 28082 (1.1) 7228	90 01 90 01 909 909 909 909	D)(G) (G) (G) (G) (G) (G) (G) (G) (G) (G)	0151 Dy 8 by 8 Br, Br,	втех 42041 в 8081 в РАН5 РАН5 ВССР ВССР 8260 (								Remarks: Recruits the rdiv		
	Turn-Around Time:	Standard Kush SOM CLUL	Project Name:	Crow Flats Fed Cum 2		23E-05820	Project Manager:	C Dixon	R. A. MPHU	Yes DNO Yes		Cooler Temp(including cr):3.6 -0.1 - 2,5 (°C)	Type and # Type	402 MV I'LE COI		602					Via: Date Time R	Time	ONUL Cerm 1/25/24 0750
Received by OCD: 7/9/2024 1:19:06 PM	Chain-of-Custody Record	Client: EOG (VERLEX)		Mailing Address: ()) L, 10	*	Phone #:	email or Fax#:	QA/QC Package:	n: □ Az Compliance	NELAC      Other			Date Time Matrix Sample Name	3/11:05 ROII WES23-02 0-6'	1:20 1 BES23-10 12						Date: Time: Relinquished by	Date: Time: Relinquished by:	1/4/14/1900 CULULULUS COM 1/25/24 0750



Environment Testing

Eurofins Environment Testing South Central, LLC 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: <u>www.hallenvironmental.com</u>

May 14, 2024 Chance Dixon EOG 105 South Fourth Street Artesia, NM 88210 TEL: FAX

RE: Crow Flats Fed Com 1

OrderNo.: 2401B97

Dear Chance Dixon:

Eurofins Environment Testing South Central, LLC received 4 sample(s) on 1/31/2024 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued February 07, 2024.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2401B97

Date Reported: 5/14/2024

CLIENT	EOG	Client Sample ID: BES23-11 13'						
<b>Project:</b>	Crow Flats Fed Com 1		Collection Date: 1/26/2024 9:00:00 AM					
Lab ID:	2401B97-001	Matrix: MEOH (SOIL)	Received Date: 1/31/2024 8:15:00 AM					

Analyses	Result	RL (	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	КСВ
Chloride	480	60	mg/Kg	20	1/31/2024 8:06:15 PM	80185
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	JKU
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	1/31/2024 10:57:15 AM	80180
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	1/31/2024 10:57:15 AM	80180
Surr: DNOP	86.1	69-147	%Rec	1	1/31/2024 10:57:15 AM	80180
EPA METHOD 8015D: GASOLINE RANGE					Analyst	JJP
Gasoline Range Organics (GRO)	ND	3.8	mg/Kg	1	1/31/2024 11:15:12 AM	GS10278
Surr: BFB	96.7	15-244	%Rec	1	1/31/2024 11:15:12 AM	GS10278
EPA METHOD 8021B: VOLATILES					Analyst	JJP
Benzene	ND	0.019	mg/Kg	1	1/31/2024 11:15:12 AM	R102788
Toluene	ND	0.038	mg/Kg	1	1/31/2024 11:15:12 AM	R102788
Ethylbenzene	ND	0.038	mg/Kg	1	1/31/2024 11:15:12 AM	R102788
Xylenes, Total	ND	0.075	mg/Kg	1	1/31/2024 11:15:12 AM	R102788
Surr: 4-Bromofluorobenzene	86.7	39.1-146	%Rec	1	1/31/2024 11:15:12 AM	R102788

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

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- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits Sample pH Not In Range
- Р Reporting Limit
- RL

Page 1 of 8

## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2401B97

Date Reported: 5/14/2024

CLIENT	EOG	0	Client Sample ID: WES23-05 6-12'
<b>Project:</b>	Crow Flats Fed Com 1		Collection Date: 1/26/2024 9:10:00 AM
Lab ID:	2401B97-002	Matrix: MEOH (SOIL)	Received Date: 1/31/2024 8:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	КСВ
Chloride	460	60	mg/Kg	20	1/31/2024 8:21:23 PM	80185
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	JKU
Diesel Range Organics (DRO)	54	9.6	mg/Kg	1	1/31/2024 11:09:16 AM	80180
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	1/31/2024 11:09:16 AM	80180
Surr: DNOP	81.9	69-147	%Rec	1	1/31/2024 11:09:16 AM	80180
EPA METHOD 8015D: GASOLINE RANGE					Analyst	JJP
Gasoline Range Organics (GRO)	ND	3.5	mg/Kg	1	1/31/2024 11:38:41 AM	GS10278
Surr: BFB	95.5	15-244	%Rec	1	1/31/2024 11:38:41 AM	GS10278
EPA METHOD 8021B: VOLATILES					Analyst	JJP
Benzene	ND	0.017	mg/Kg	1	1/31/2024 11:38:41 AM	R102788
Toluene	ND	0.035	mg/Kg	1	1/31/2024 11:38:41 AM	R102788
Ethylbenzene	ND	0.035	mg/Kg	1	1/31/2024 11:38:41 AM	R102788
Xylenes, Total	ND	0.070	mg/Kg	1	1/31/2024 11:38:41 AM	R102788
Surr: 4-Bromofluorobenzene	87.6	39.1-146	%Rec	1	1/31/2024 11:38:41 AM	R102788

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits Sample pH Not In Range
- Р Reporting Limit
- RL

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### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2401B97

Date Reported: 5/14/2024

CLIENT:	EOG	C	Client Sample ID: WES23-05 0-6'
Project:	Crow Flats Fed Com 1		Collection Date: 1/26/2024 9:15:00 AM
Lab ID:	2401B97-003	Matrix: MEOH (SOIL)	Received Date: 1/31/2024 8:15:00 AM

Analyses	Result	RL Q	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	КСВ
Chloride	420	60	mg/Kg	20	1/31/2024 8:36:33 PM	80185
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst	JKU
Diesel Range Organics (DRO)	48	9.2	mg/Kg	1	1/31/2024 11:21:16 AM	80180
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	1/31/2024 11:21:16 AM	80180
Surr: DNOP	79.4	69-147	%Rec	1	1/31/2024 11:21:16 AM	80180
EPA METHOD 8015D: GASOLINE RANGE					Analyst	JJP
Gasoline Range Organics (GRO)	ND	3.6	mg/Kg	1	1/31/2024 12:02:17 PM	GS10278
Surr: BFB	92.8	15-244	%Rec	1	1/31/2024 12:02:17 PM	GS10278
EPA METHOD 8021B: VOLATILES					Analyst	JJP
Benzene	ND	0.018	mg/Kg	1	1/31/2024 12:02:17 PM	R102788
Toluene	ND	0.036	mg/Kg	1	1/31/2024 12:02:17 PM	R102788
Ethylbenzene	ND	0.036	mg/Kg	1	1/31/2024 12:02:17 PM	R102788
Xylenes, Total	ND	0.072	mg/Kg	1	1/31/2024 12:02:17 PM	R102788
Surr: 4-Bromofluorobenzene	83.9	39.1-146	%Rec	1	1/31/2024 12:02:17 PM	R102788

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

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- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value Analyte detected below quantitation limits
- J Р Sample pH Not In Range
- RL Reporting Limit

Page 3 of 8

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2401B97

Date Reported: 5/14/2024

CLIENT	EOG	0	Client Sample ID: WES23-03 6-12'
<b>Project:</b>	Crow Flats Fed Com 1		Collection Date: 1/26/2024 9:20:00 AM
Lab ID:	2401B97-004	Matrix: MEOH (SOIL)	Received Date: 1/31/2024 8:15:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	КСВ
Chloride	400	60	mg/Kg	20	1/31/2024 8:51:42 PM	80185
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	JKU
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	1/31/2024 11:33:22 AM	80180
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	1/31/2024 11:33:22 AM	80180
Surr: DNOP	73.3	69-147	%Rec	1	1/31/2024 11:33:22 AM	80180
EPA METHOD 8015D: GASOLINE RANGE					Analyst	JJP
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	1/31/2024 12:25:55 PM	GS10278
Surr: BFB	99.2	15-244	%Rec	1	1/31/2024 12:25:55 PM	GS10278
EPA METHOD 8021B: VOLATILES					Analyst	JJP
Benzene	ND	0.023	mg/Kg	1	1/31/2024 12:25:55 PM	R102788
Toluene	ND	0.046	mg/Kg	1	1/31/2024 12:25:55 PM	R102788
Ethylbenzene	ND	0.046	mg/Kg	1	1/31/2024 12:25:55 PM	R102788
Xylenes, Total	ND	0.093	mg/Kg	1	1/31/2024 12:25:55 PM	R102788
Surr: 4-Bromofluorobenzene	88.3	39.1-146	%Rec	1	1/31/2024 12:25:55 PM	R102788

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

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- RL

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Client ID: PBS

Analyte

Analyte

Chloride

Chloride

Prep Date: 1/31/2024

Sample ID: LCS-80185

Prep Date: 1/31/2024

Client ID: LCSS

Result

Result

14

ND

Batch ID: 80185

Analysis Date: 1/31/2024

SampType: Ics

Batch ID: 80185

Analysis Date: 1/31/2024

PQL

1.5

PQL

1.5

A 40 1 D 0 5

Qual

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MO

**RPDLimit** 

RPDLimit

Hall Env	w0#: 2401B 14-May-			
Client: Project:	EOG Crow F	lats Fed Com 1		
Sample ID: M	B-80185	SampType: mblk	TestCode: EPA Method 300.0: Anions	

SPK value SPK Ref Val %REC LowLimit

0

SPK value SPK Ref Val

15.00

RunNo: 102791

SeqNo: 3798618

RunNo: 102791

SeqNo: 3798619

95.1

%REC LowLimit

TestCode: EPA Method 300.0: Anions

90

Units: mg/Kg

Units: mg/Kg

110

HighLimit

%RPD

%RPD

HighLimit

Qualifiers:
-------------

- Value exceeds Maximum Contaminant Level.
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- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- PQL Practical Quanitative Limit
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- в Analyte detected in the associated Method Blank
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- RL Reporting Limit

Page 5 of 8

Released to Imaging: 7/9/2024 2:25:28 PM

Client:	EOG										
Project:		ats Fed Cor	n 1								
Sample ID: MB-80	180	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: PBS Batch ID: 80180			F	RunNo: 1	02789						
Prep Date: 1/31/2	2024	Analysis D	ate: 1/	31/2024	S	SeqNo: 3	797732	Units: <b>mg/K</b>	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (	(DRO)	ND	10								
Motor Oil Range Organio	cs (MRO)	ND	50								
Surr: DNOP		8.9		10.00		88.8	69	147			
Sample ID: LCS-80	0180	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Orga				e Organics		
Client ID: LCSS		Batch ID: 80180		F	RunNo: 1	02789					
Prep Date: 1/31/2	2024	Analysis D	ate: 1/	31/2024	S	SegNo: 3	797733	Units: mg/K	a		

	•				•		Ŭ	•		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	38	10	50.00	0	76.8	61.9	130			
Surr: DNOP	4.5		5.000		90.0	69	147			

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- P Sample pH Not In Range
- RL Reporting Limit

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2401B97

14-May-24

EOG

**Client:** 

# **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

2401B97	WO#:
14-May-24	

Project: Crow I	Flats Fed Cor	n 1								
Sample ID: 2.5ug gro Ics	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D: Gase	oline Rang	le	
Client ID: LCSS	Batch	ID: GS	6102788	F	RunNo: 1	02788				
Prep Date:	Analysis D	ate: 1/	31/2024	S	SeqNo: 3	797719	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	85.8	70	130			
Surr: BFB	1900		1000		193	15	244			
Sample ID: mb	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Gase	oline Rang	e	
Client ID: PBS	Batch	ID: GS	6102788	F	RunNo: <b>102788</b>					
Prep Date:	Analysis D	ate: 1/	31/2024	5	SeqNo: 3	797720	Units: <b>mg/ł</b>	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	900		1000		90.4	15	244			

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EOG

Ξ **Client:** 

**Project:** 

# **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

Crow Flats Fed Com 1

WO#:	2401B97
	14 14 24

VO#:	2401B9
	14-May-24

Sample ID: 100ng btex lcs	SampType: LCS TestCode: EPA Method				8021B: Volat	iles				
Client ID: LCSS	Batc	h ID: <b>R1</b>	02788	F	RunNo: 10	02788				
Prep Date:	Analysis E	Analysis Date: 1/31/2024 SeqNo: 3797724 Ur			Units: mg/K	g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	88.9	70	130			
Toluene	0.89	0.050	1.000	0	89.2	70	130			
Ethylbenzene	0.89	0.050	1.000	0	89.0	70	130			
Xylenes, Total	2.7	0.10	3.000	0	89.2	70	130			
Surr: 4-Bromofluorobenzene	0.88		1.000		88.2	39.1	146			
Sample ID: mb	SampT	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Sample ID: <b>mb</b> Client ID: <b>PBS</b>		Type: <b>ME</b> h ID: <b>R1</b>			tCode: EF		8021B: Volat	iles		
•		h ID: <b>R1</b>	02788	F		02788	8021B: Volat Units: mg/K			
Client ID: PBS	Batcl	h ID: <b>R1</b>	02788 31/2024	F	RunNo: 11 SeqNo: 37	02788			RPDLimit	Qual
Client ID: <b>PBS</b> Prep Date:	Batcl Analysis I	h ID: <b>R1</b> Date: <b>1/</b>	02788 31/2024	F	RunNo: 11 SeqNo: 37	02788 797725	Units: mg/K	g	RPDLimit	Qual
Client ID: <b>PBS</b> Prep Date: Analyte	Batcl Analysis I Result	h ID: <b>R1</b> Date: <b>1/</b> PQL	02788 31/2024	F	RunNo: 11 SeqNo: 37	02788 797725	Units: mg/K	g	RPDLimit	Qual
Client ID: PBS Prep Date: Analyte Benzene	Batcl Analysis E Result ND	h ID: <b>R1</b> Date: <b>1/</b> : PQL 0.025	02788 31/2024	F	RunNo: 11 SeqNo: 37	02788 797725	Units: mg/K	g	RPDLimit	Qual
Client ID: PBS Prep Date: Analyte Benzene Toluene	Batcl Analysis E Result ND ND	h ID: <b>R1</b> Date: <b>1/</b> <u>PQL</u> 0.025 0.050	02788 31/2024	F	RunNo: 11 SeqNo: 37	02788 797725	Units: mg/K	g	RPDLimit	Qual

**Qualifiers:** 

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- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- В Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Environment Testin TEL: 505-345	nvironment Testing S. Central, 4901 Hawkin Albuquerque, NM 8 -3975 FAX: 505-345- ww.hallenvironmental	LLC IS NE San 17109 4107	nple Log-In Check List
Client Name: EOG Work Order Nur	mber: 2401B97		RcptNo: 1
Received By: Tracy Casarrubias 1/31/2024 8:15:00	D AM		
Completed By: Tracy Casarrubias Reviewed By: $3CM$ $1/31/2024$ 8:55:20	D AM		
hain of Custody		_	_
Is Chain of Custody complete?	Yes 🗌	No 🗹	Not Present
How was the sample delivered?	<u>Courier</u>		
Log In . Was an attempt made to cool the samples?	Yes 🗹	No 🗌	NA 🗌
. Were all samples received at a temperature of $>0^{\circ}$ C to $6.0^{\circ}$ C	Yes 🗹	No 🗌	NA 🗌
. Sample(s) in proper container(s)?	Yes 🖌	No 🗌	
Sufficient sample volume for indicated test(s)?	Yes 🔽	No 🗌	
Are samples (except VOA and ONG) properly preserved?	Yes 🗹	No 🗌	
. Was preservative added to bottles?	Yes	No 🗹	NA 🗔
. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes	No 🗌	NA 🗹
). Were any sample containers received broken?	Yes	No 🗹	# of preserved bottles checked
Does paperwork match bottle labels?     (Note discrepancies on chain of custody)	Yes 🗹	No 🗌	for pH: (<2 or >12 unless noted)
Are matrices correctly identified on Chain of Custody?	Yes 🔽	No 🗌	Adjusted?
Is it clear what analyses were requested?	Yes 🗹	No 🗌	
. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🗹	No 🗌	effecked by: <u>14 131/24</u>
pecial Handling (if applicable)			
5. Was client notified of all discrepancies with this order?	Yes	No 🗌	NA 🔽
Person Notified: Dat	e:		
By Whom: Via:	: eMail F	Phone 🗌 Fax	In Person
Regarding:			
Client Instructions:			
6. Additional remarks:			
Mailing address, phone number and Email/Fax are missing	g on COC- TMC 1/3	1/24	
7. <u>Cooler Information</u> Cooler No Temp °C Condition Seal Intact Seal No	Seal Date	Signed By	1
1 0.5 Good Yes Yogi	Jeai Dale	orgined by	

Page 1 of 1

HALL ENVIRONMENTAL ANALYSIS LABORATORY www.halenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request	Image: Section of Solution in the Solution of Solution (Present/Absent)       Image: Solution of Solution of Solution (Present/Absent)         Image: Solution of Soluti	Date Time Remarks: 130 724 915 PLANULY TO: COUXON WATTX、 い Date Time 8:5 731/24 8:5 This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.
4901 Hav	e'808'zebioitzeg 1808 808't Pesticides/808'z PCB's	cs: Any sub
		PCAN PCAN
Turn-Around Time: Standard Krush Some day Project Name: C:NOWF1 at S Fed Com Project #:	Project Manager: C. M. L. M. M. M. Sampler: A. M. M. M. M. Sampler: A. M. M. M. M. Sampler: A. M. M. M. M. Sampler: A. M. M. M. Sampler: A. M. M. M. M. Sampler: A. M. M. M. M. M. M. Sampler: A. M.	Received by: Via: Date Time F Received by: Via: County M30 [24 915 Received by: Via: County Date Time Banacted to other accredited laboratories. This serves as notice of this p
Client: EOG (VeVnex) Mailing Address: ひん FJ し	Fax#:         ackage:         a	Date:     Time:     Relinquished by:     Via:       [30]24     010     010     010       Date:     Time:     Relinquished by:     Via:       [30]24     100     010     010       Date:     Time:     Relinquished by:     Via:       [30]24     170     010     010       Date:     Time:     Relinquished by:     Via:       [50]27     174     170     010       If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories.



Eurofins Environment Testing South Central, LLC 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

February 13, 2024 Chance Dixon EOG 105 South Fourth Street Artesia. NM 88210 TEL: FAX:

RE: Crow Flats Fed Com 1

OrderNo.: 2402004

Dear Chance Dixon:

Eurofins Environment Testing South Central, LLC received 3 sample(s) on 2/1/2024 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

#### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2402004

Date Reported: 2/13/2024

CLIENT	EOG	Client Sample ID: BES23-01 17'	
<b>Project:</b>	Crow Flats Fed Com 1	Collection Date: 1/30/2024 9:30:00 AM	
Lab ID:	2402004-001	Matrix: MEOH (SOIL) Received Date: 2/1/2024 7:30:00 AM	

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	RBC
Chloride	210	60		mg/Kg	20	2/1/2024 10:50:26 AM	80198
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst	: JKU
Diesel Range Organics (DRO)	66	9.2		mg/Kg	1	2/1/2024 11:35:42 AM	80201
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/1/2024 11:35:42 AM	80201
Surr: DNOP	89.8	69-147		%Rec	1	2/1/2024 11:35:42 AM	80201
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: JJP
Gasoline Range Organics (GRO)	34	4.2		mg/Kg	1	2/1/2024 12:03:13 PM	GS10281
Surr: BFB	323	15-244	S	%Rec	1	2/1/2024 12:03:13 PM	GS10281
EPA METHOD 8021B: VOLATILES						Analyst	: JJP
Benzene	ND	0.021		mg/Kg	1	2/1/2024 12:03:13 PM	BS10281
Toluene	0.18	0.042		mg/Kg	1	2/1/2024 12:03:13 PM	BS10281
Ethylbenzene	0.21	0.042		mg/Kg	1	2/1/2024 12:03:13 PM	BS10281
Xylenes, Total	1.0	0.085		mg/Kg	1	2/1/2024 12:03:13 PM	BS10281
Surr: 4-Bromofluorobenzene	98.3	39.1-146		%Rec	1	2/1/2024 12:03:13 PM	BS10281

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers: * Value exceeds Maximum Contaminant Level.

- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated ValueJ Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 7

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

#### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2402004

Date Reported: 2/13/2024

CLIENT: EOG		0	Client Sample ID: BES23-02 16'
<b>Project:</b>	Crow Flats Fed Com 1		Collection Date: 1/30/2024 9:40:00 AM
Lab ID:	2402004-002	Matrix: MEOH (SOIL)	Received Date: 2/1/2024 7:30:00 AM

Analyses	Result	RL (	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	RBC
Chloride	380	60	mg/Kg	20	2/1/2024 11:05:36 AM	80198
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	JKU
Diesel Range Organics (DRO)	130	9.1	mg/Kg	1	2/1/2024 11:47:54 AM	80201
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	2/1/2024 11:47:54 AM	80201
Surr: DNOP	89.0	69-147	%Rec	1	2/1/2024 11:47:54 AM	80201
EPA METHOD 8015D: GASOLINE RANGE					Analyst	JJP
Gasoline Range Organics (GRO)	13	4.6	mg/Kg	1	2/1/2024 11:39:45 AM	GS10281
Surr: BFB	190	15-244	%Rec	1	2/1/2024 11:39:45 AM	GS10281
EPA METHOD 8021B: VOLATILES					Analyst	JJP
Benzene	ND	0.023	mg/Kg	1	2/1/2024 11:39:45 AM	BS10281
Toluene	0.049	0.046	mg/Kg	1	2/1/2024 11:39:45 AM	BS10281
Ethylbenzene	0.11	0.046	mg/Kg	1	2/1/2024 11:39:45 AM	BS10281
Xylenes, Total	0.25	0.091	mg/Kg	1	2/1/2024 11:39:45 AM	BS10281
Surr: 4-Bromofluorobenzene	95.1	39.1-146	%Rec	1	2/1/2024 11:39:45 AM	BS10281

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

* Value exceeds Maximum Contaminant Level. **Qualifiers:** 

- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

- В Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range RL Reporting Limit

Page 2 of 7

#### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2402004

Date Reported: 2/13/2024

CLIENT	EOG	0	Client Sample ID: BES23-03 16'
<b>Project:</b>	Crow Flats Fed Com 1		Collection Date: 1/30/2024 9:50:00 AM
Lab ID:	2402004-003	Matrix: MEOH (SOIL)	Received Date: 2/1/2024 7:30:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	RBC
Chloride	430	60	mg/Kg	20	2/1/2024 11:51:02 AM	80198
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst	: JKU
Diesel Range Organics (DRO)	46	9.1	mg/Kg	1	2/1/2024 12:00:07 PM	80201
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	2/1/2024 12:00:07 PM	80201
Surr: DNOP	91.1	69-147	%Rec	1	2/1/2024 12:00:07 PM	80201
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: JJP
Gasoline Range Organics (GRO)	10	3.3	mg/Kg	1	2/1/2024 1:14:04 PM	GS10281
Surr: BFB	155	15-244	%Rec	1	2/1/2024 1:14:04 PM	GS10281
EPA METHOD 8021B: VOLATILES					Analyst	: JJP
Benzene	0.065	0.016	mg/Kg	1	2/1/2024 1:14:04 PM	BS10281
Toluene	0.20	0.033	mg/Kg	1	2/1/2024 1:14:04 PM	BS10281
Ethylbenzene	0.15	0.033	mg/Kg	1	2/1/2024 1:14:04 PM	BS10281
Xylenes, Total	0.29	0.066	mg/Kg	1	2/1/2024 1:14:04 PM	BS10281
Surr: 4-Bromofluorobenzene	95.4	39.1-146	%Rec	1	2/1/2024 1:14:04 PM	BS10281

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

* Value exceeds Maximum Contaminant Level. **Qualifiers:** 

- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

- В Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range RL Reporting Limit

Page 3 of 7

L.		al Analysis Labo	oratory, Inc.			WO#:	2402004 13-Feb-24
Client: Project:	EOG Crow Fl	ats Fed Com 1					
Sample ID:	MB-80198	SampType: MBLK	Те	stCode: EPA Method	300.0: Anions		
Client ID:	PBS	Batch ID: 80198		RunNo: <b>102829</b>			
Prep Date:	2/1/2024	Analysis Date: 2/1/202	4	SeqNo: <b>3799553</b>	Units: <b>mg/Kg</b>		
Analyte		Result PQL SP	K value SPK Ref Val	%REC LowLimit	HighLimit %R	PD RPDLimit	Qual
Chloride		ND 1.5					
Sample ID:	LCS-80198	SampType: LCS	Те	stCode: EPA Method	300.0: Anions		
Client ID:	LCSS	Batch ID: 80198		RunNo: <b>102829</b>			
Prep Date:	2/1/2024	Analysis Date: 2/1/202	4	SeqNo: <b>3799554</b>	Units: <b>mg/Kg</b>		
Analyte		Result PQL SP	K value SPK Ref Val	%REC LowLimit	HighLimit %R	PD RPDLimit	Qual

110

SPK value SPK Ref Val %REC LowLimit Result PQL 14 15.00 1.5 0 95.0 90

**Qualifiers:** 

Chloride

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank В
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 4 of 7

	WO#:	2402004
Hall Environmental Analysis Laboratory, Inc.		13-Feb-24
	-	

Client:EOGProject:Crow Fl	ats Fed Cor	n 1								
Sample ID: MB-80201	•	ype: ME					8015M/D: Die	sel Range	Organics	
Client ID: PBS	Batch	n ID: 802	201	F	RunNo: <b>1(</b>	)2822				
Prep Date: 2/1/2024	Analysis D	)ate: 2/	1/2024		SeqNo: 37	799077	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.0		10.00		89.5	69	147			
Sample ID: LCS-80201	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: LCSS	Batch	n ID: 802	201	F	RunNo: <b>1(</b>	)2822				
Prep Date: 2/1/2024	Analysis D	)ate: <b>2/</b>	1/2024	ę	SeqNo: 37	799078	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	86.2	61.9	130			
Surr: DNOP	4.4		5.000		88.7	69	147			

Qualifiers:

- Value exceeds Maximum Contaminant Level. *
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank В
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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EOG

**Client:** 

C SUMMART REFORT	WO#:	2402004
all Environmental Analysis Laboratory, Inc.		13-Feb-24

Project: Crow Fl	ats Fed Cor	n 1									
Sample ID: 2.5ug gro Ics	SampT	ype: LC	S	TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch	n ID: GS	102815	F	RunNo: 102815						
Prep Date:	Analysis Date: 2/1/2024			S	SeqNo: 37	798884	Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	23	5.0	25.00	0	90.3	70	130				
Surr: BFB	2000		1000		203	15	244				
Sample ID: <b>mb</b>	SampT	ype: ME	BLK	TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch	n ID: <b>GS</b>	102815	RunNo: 102815							
Prep Date: Analysis Date: 2/1/2024			1/2024	5	SeqNo: 37	798885	Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	ND	5.0									
Surr: BFB	1000		1000		104	15	244				
	.000		1000		101	10					

Qualifiers:

- Value exceeds Maximum Contaminant Level. *
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- В Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Released to Imaging: 7/9/2024 2:25:28 PM

**Client: Project:** 

# **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

EOG
Crow Flats Fed Com 1

Sample ID: 100ng btex lcs	Samp	Туре: <b>LC</b>	S	Tes	tCode: EF	iles					
Client ID: LCSS	Batc	h ID: <b>BS</b>	102815	F	RunNo: <b>1(</b>	02815					
Prep Date:	Analysis I	Date: <b>2/</b> *	1/2024	S	SeqNo: 37	798889	Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.87	0.025	1.000	0	86.9	70	130				
Toluene	0.88	0.050	1.000	0	87.9	70	130				
Ethylbenzene	0.87	0.050	1.000	0	87.3	70	130				
Xylenes, Total	2.6	0.10	3.000	0	87.4	70	130				
			1 000		00.0	20.4	146				
Surr: 4-Bromofluorobenzene	0.88		1.000		88.0	39.1	140				
Surr: 4-Bromofluorobenzene Sample ID: mb		Туре: <b>МЕ</b>		Tes			8021B: Volati	iles			
	Samp	Type: <b>ME</b> h ID: <b>BS</b>	BLK			PA Method		iles			
Sample ID: <b>mb</b>	Samp	h ID: BS	BLK 102815	F	tCode: EF	PA Method 02815					
Sample ID: <b>mb</b> Client ID: <b>PBS</b>	Samp ⁻ Batc	h ID: BS	BLK 102815 1/2024	F	tCode: EF	PA Method 02815	8021B: Volati		RPDLimit	Qual	
Sample ID: <b>mb</b> Client ID: <b>PBS</b> Prep Date:	Samp ⁻ Batc Analysis I	h ID: <b>BS</b> Date: <b>2/</b> *	BLK 102815 1/2024	F	atCode: EF RunNo: 10 SeqNo: 37	PA Method 02815 798890	8021B: Volati Units: mg/K	g	RPDLimit	Qual	
Sample ID: <b>mb</b> Client ID: <b>PBS</b> Prep Date: Analyte	Samp ⁻ Batc Analysis I Result	h ID: <b>BS</b> Date: <b>2/</b> PQL	BLK 102815 1/2024	F	atCode: EF RunNo: 10 SeqNo: 37	PA Method 02815 798890	8021B: Volati Units: mg/K	g	RPDLimit	Qual	
Sample ID: <b>mb</b> Client ID: <b>PBS</b> Prep Date: Analyte Benzene	Samp Batc Analysis I Result ND	h ID: <b>BS</b> Date: <b>2/</b> PQL 0.025	BLK 102815 1/2024	F	atCode: EF RunNo: 10 SeqNo: 37	PA Method 02815 798890	8021B: Volati Units: mg/K	g	RPDLimit	Qual	
Sample ID: <b>mb</b> Client ID: <b>PBS</b> Prep Date: Analyte Benzene Toluene	Samp Batc Analysis I Result ND ND	h ID: <b>BS</b> Date: <b>2</b> / PQL 0.025 0.050	BLK 102815 1/2024	F	atCode: EF RunNo: 10 SeqNo: 37	PA Method 02815 798890	8021B: Volati Units: mg/K	g	RPDLimit	Qual	

**Qualifiers:** 

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank В
- Е Above Quantitation Range/Estimated Value
- J
- Р Sample pH Not In Range
- RL Reporting Limit
- Analyte detected below quantitation limits

Page 7 of 7

WO#: 2402004 13-Feb-24

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#### Eurofins Environment Testing South Central, LLC 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website.unuw kallowiisomaatal.com

Sample Log-In Check List

Released to Imaging: 7/9/2024 2:25:28 PM

	Website: www	v.hallenvironmenta	l.com		
Client Name: EOG	Work Order Num	ber: 2402004		RcptNo:	1
Received By: Tracy Casarrubias	2/1/2024 7:30:00 A	M			
Completed By: Desiree Dominguez	2/1/2024 8:13:43 A	Μ	TPS		
Reviewed By: Jin 2/1/24					
Chain of Custody				_	
1. Is Chain of Custody complete?		Yes 🗌	No 🗹	Not Present	
2. How was the sample delivered?		Courier			
Log In		_		_	
3. Was an attempt made to cool the same	nples?	Yes 🗹	No 🗌	NA	
4. Were all samples received at a temper	rature of >0° C to 6.0°C	Yes 🔽	No 📋	NA 🗌	
5. Sample(s) in proper container(s)?		Yes 🗹	No 🗌		
6. Sufficient sample volume for indicated	test(s)?	Yes 🗹	No 🗌		
7. Are samples (except VOA and ONG) p	properly preserved?	Yes 🗹	No 🗌		
8. Was preservative added to bottles?		Yes 🗌	No 🗹	NA 🗌	
9. Received at least 1 vial with headspac	e <1/4" for AQ VOA?	Yes	No 🗌	NA 🔽	
10. Were any sample containers received	broken?	Yes	No 🗹	# of preserved	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custor	dy)	Yes 🗹	No 🗌		12 unless noted)
12. Are matrices correctly identified on Ch	ain of Custody?	Yes 🗹	No 🗌	Adjusted?	
13. Is it clear what analyses were requested	ed?	Yes 🗹	No 🗌		alila
14. Were all holding times able to be met? (If no, notify customer for authorization)		Yes 🗹	No 🗆 🖌	Checked by:	19 4110
Special Handling (if applicable)					
15. Was client notified of all discrepancies	s with this order?	Yes	No 🗌	NA 🗹	
Person Notified:	Date:	J			
By Whom:	Via:	🗌 eMail 🔛 I	Phone 门 Fax	In Person	
Regarding:					
Client Instructions:					
16. Additional remarks:					4. -
Mailing address, phone number	and Email/Fax are missing	on COC- DAD 2/1	/24		
17. Cooler Information	1				
Cooler No Temp °C Condition		Seal Date	Signed By		
1 2.0 Good	Yes Yogi				

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Page 243 of 341	HALLENVIDONMENTAL	ANALYSIS LABORATORY	www.hallenvironmental.com	4901 Hawkins NE - Albuquerque, NM 87109	Analysis Request	*OS	ь0*' 6 SWIS0 sWIS0 sWIS0 s,82d ы	v) R085 4.1) 8085 9,108	AOk O ^{3°} IO ol qeck	5D(( stici stho 83. (AC) (AC)	BTEX) I BUB (Me BOB (Me BOB (Me BCRA 8 BCRA 8 CLF, Br BC CLF, Br BC CLF, Br BC CLF, Br BC CLF, Br BC CLF, Br BC CLF, Br BC CLF, Br BC CLF, Br CLF, C CLF, Br CLF, C CLF, C CLF, Br CLF, C CLF, C CLF, C CLF, Br CLF, C CLF, C CLF, C CLF, C CLF, C CLF, C CLF, C C CLF, C C CLF, C C CLF, C C C C C C C C C C C C C C C C C C C	X							Results to: cdivene vertex.ch		1/1/1/1/1/2/1/2/2/2/2/2/2/2/2/2/2/2/2/2
	Turn-Around Time:	Candard D Rush SMM A and		Crow Flats Fed Com 1	0C.9Cn -727	Project Manager:	C. Dixon	Æ	On Ice: Ves DN0 100	Cooler Temp(including CF): 7 ] - 0.1= 7 0 (°C)	e e	31		1 103					VIA: 1/31/24	Received by: Via: Country Date Time	ontracted to other accredited laboratories. This serves as hotice of this
Received by OCD: 7/9/2024 1:19:06 PM	Chain-of-Custody Record	Client: EOG (vertex)		Mailing Address: UN FIU	Phone #:	email or Fax#:	QA/QC Package:	n:	D NELAC D Other		Time Matrix Sample Name	19:30 Mil BES23-01 17'	9:40 1 BES23-02 16'	-					Date: Time: Relinquished by	Date: Time: Relinquished by:	IN 124 MOD / WAAAAAAAAAAA

Received by OCD: 7/9/2024 1:19:06 PM



**Environment Testing** 

# ANALYTICAL REPORT

# PREPARED FOR

Attn: Chance Dixon Vertex 3101 Boyd Dr Carlsbad, New Mexico 88220 Generated 4/16/2024 2:26:19 PM

# **JOB DESCRIPTION**

Crow Flats Fed Com1

# **JOB NUMBER**

885-2702-1

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

Authorized for release by

(505)345-3975

Andy Freeman, Business Unit Manager andy.freeman@et.eurofinsus.com

Generated 4/16/2024 2:26:19 PM

Laboratory Job ID: 885-2702-1

2 3

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## **Definitions/Glossary**

**Client: Vertex** Project/Site: Crow Flats Fed Com1

TEQ

TNTC

Job ID: 885-2702-1

Project/Site: 0	Crow Flats Fed Com1	
Glossary		3
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	Λ
%R	Percent Recovery	
CFL	Contains Free Liquid	5
CFU	Colony Forming Unit	5
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)	8
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	9
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)	

Toxicity Equivalent Quotient (Dioxin)

Too Numerous To Count

#### **Case Narrative**

Job ID: 885-2702-1

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Client: Vertex Project: Crow Flats Fed Com1

#### **Eurofins Albuquerque**

#### Job Narrative 885-2702-1

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample 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 4/11/2024 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 5.4°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.

# **Client Sample Results**

Client: Vertex Project/Site: Crow Flats Fed Com1

#### Client Sample ID: WES24-01,0-7' Date Collected: 04/09/24 16:45 Date Received: 04/11/24 07:50

Method: SW846 8015D - Gasc Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		3.5		mg/Kg		04/12/24 09:11	04/12/24 13:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		15 - 244				04/12/24 09:11	04/12/24 13:51	1
Method: SW846 8021B - Volat	ile Organic	Compound	ds (GC)						
Analyte	-	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.018		mg/Kg		04/12/24 09:11	04/12/24 13:51	1
Ethylbenzene	ND		0.035		mg/Kg		04/12/24 09:11	04/12/24 13:51	1
Toluene	ND		0.035		mg/Kg		04/12/24 09:11	04/12/24 13:51	1
Xylenes, Total	ND		0.070		mg/Kg		04/12/24 09:11	04/12/24 13:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		39 - 146				04/12/24 09:11	04/12/24 13:51	1
Method: SW846 8015D - Diese	el Range Or	ganics (DR	RO) (GC)						
		ganics (DR Qualifier	RO) (GC) RL		Unit	D	Prepared	Analyzed	Dil Fac
Analyte		- · ·		8.3	Unit mg/Kg	D	Prepared 04/11/24 08:58	Analyzed 04/11/24 11:37	Dil Fac
Analyte Diesel Range Organics [C10-C28]	Result	- · ·	RL	8.3 27		D			<b>Dil Fac</b> 1
Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40]	Result <8.3	Qualifier	RL 9.7		mg/Kg	D	04/11/24 08:58	04/11/24 11:37	Dil Fac 1 1 Dil Fac
Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] <i>Surrogate</i>	Result <8.3 <27	Qualifier	<b>RL</b> 9.7 48		mg/Kg	<u>D</u>	04/11/24 08:58 04/11/24 08:58	04/11/24 11:37 04/11/24 11:37	1 1
Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate Di-n-octyl phthalate (Surr)	Result           <8.3	Qualifier Qualifier	RL 9.7 48 <i>Limits</i>		mg/Kg	<u>D</u>	04/11/24 08:58 04/11/24 08:58 <b>Prepared</b>	04/11/24 11:37 04/11/24 11:37 <i>Analyzed</i>	1 1
Method: SW846 8015D - Diese Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate Di-n-octyl phthalate (Surr) Method: EPA 300.0 - Anions, Analyte	Result           <8.3	Qualifier Qualifier	RL 9.7 48 <i>Limits</i>		mg/Kg	D D	04/11/24 08:58 04/11/24 08:58 <b>Prepared</b>	04/11/24 11:37 04/11/24 11:37 <i>Analyzed</i>	1 1

Job ID: 885-2702-1

# 300 ID. 003-2702-1

#### Lab Sample ID: 885-2702-1 Matrix: Solid

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# **Client Sample Results**

Client: Vertex Project/Site: Crow Flats Fed Com1

#### Client Sample ID: WES24-01,8-17' Date Collected: 04/09/24 16:55 Date Received: 04/11/24 07:50

Method: SW846 8015D - Gase Analyte	-	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		3.9		mg/Kg		04/12/24 09:11	04/12/24 14:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		15 - 244				04/12/24 09:11	04/12/24 14:14	1
Method: SW846 8021B - Volat	tile Organic	Compound	ds (GC)						
Analyte	-	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.020		mg/Kg		04/12/24 09:11	04/12/24 14:14	1
Ethylbenzene	ND		0.039		mg/Kg		04/12/24 09:11	04/12/24 14:14	1
Toluene	ND		0.039		mg/Kg		04/12/24 09:11	04/12/24 14:14	1
Xylenes, Total	ND		0.078		mg/Kg		04/12/24 09:11	04/12/24 14:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		39 - 146				04/12/24 09:11	04/12/24 14:14	1
Method: SW846 8015D - Dies	el Range Or	ganics (DF	RO) (GC)						
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<8.4		9.8	8.4	mg/Kg		04/11/24 08:58	04/11/24 11:49	1
Motor Oil Range Organics [C28-C40]	<27		49	27	mg/Kg		04/11/24 08:58	04/11/24 11:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	104		62 - 134				04/11/24 08:58	04/11/24 11:49	1
Method: EPA 300.0 - Anions,	Ion Chroma	tography							
Method: EPA 300.0 - Anions, Analyte		tography Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac

Matrix: Solid

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# Job ID: 885-2702-1

Lab Sample ID: 885-2702-2

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### **QC Sample Results**

Job ID: 885-2702-1

**Client: Vertex** Project/Site: Crow Flats Fed Com1

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

Lab Sample ID: MB 885-317	1/1 <b>-A</b>							Clie	nt Samp	ole ID: Method	
Matrix: Solid										Prep Type: T	
Analysis Batch: 3221										Prep Batc	n: 3171
		IB MB									
Analyte		ult Qualifier			Unit		D		repared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	N	ID	5.0		mg/l	٢g		04/1	2/24 09:11	04/12/24 11:06	
	м	IB MB									
Surrogate	%Recove	ry Qualifier	Limits					PI	repared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)		02	15 - 244					04/1	2/24 09:11	04/12/24 11:06	1
Analysis Batch: 3221			Spike	-	LCS Qualifier	Unit		<b>D</b>	% <b>B</b> oo	%Rec	
Analyte			Added	Result	Qualifier	Unit		D	%Rec	Limits	
Gasoline Range Organics [C6 - C10]			25.0	25.6		mg/Kg			102	70 - 130	
	LCS L	cs									
Surrogate	%Recovery Q	ualifier	Limits								
4-Bromofluorobenzene (Surr)	211		15_244								
lethod: 8021B - Volatile	Organic	Compou	nds (GC)								
Lab Sample ID: MB 885-317	1/1-A							Clie	nt Sam	ole ID: Method	d Blank
Matrix: Solid										Prep Type: T	
Analysis Bataly 2000										Drop Pote	

#### **Analysis Batch: 3222** Prep Batch: 3171 MB MB Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Benzene ND 0.025 mg/Kg 04/12/24 09:11 04/12/24 11:06 1 Ethylbenzene 0.050 04/12/24 09:11 04/12/24 11:06 ND mg/Kg 1 Toluene ND 0.050 mg/Kg 04/12/24 09:11 04/12/24 11:06 1 Xylenes, Total ND 0.10 04/12/24 09:11 04/12/24 11:06 mg/Kg 1 MB MB Surrogate Qualifier Limits Prepared Analyzed Dil Fac %Recovery 39 - 146 04/12/24 09:11 04/12/24 11:06 4-Bromofluorobenzene (Surr) 86 1

#### Lab Sample ID: LCS 885-3171/3-A Matrix: Solid **Analysis Batch: 3222**

#### **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Prep	Batch: 3171
%Rec	

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	1.00	0.846		mg/Kg		85	70 - 130	
Ethylbenzene	1.00	0.863		mg/Kg		86	70 - 130	
m,p-Xylene	2.00	1.76		mg/Kg		88	70 - 130	
o-Xylene	1.00	0.856		mg/Kg		86	70 - 130	
Toluene	1.00	0.853		mg/Kg		85	70 - 130	
Xylenes, Total	3.00	2.61		mg/Kg		87	70 - 130	
LCS LCS								

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	90	39 - 146

**Eurofins Albuquerque** 

## **QC Sample Results**

Client: Vertex Project/Site: Crow Flats Fed Com1

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

Di-n-octyl phthalate (Surr)         Lab Sample ID: LCS 885-3074/2-         Matrix: Solid         Analysis Batch: 3123         Analyte         Diesel Range Organics         [C10-C28]         Surrogate       %Rec         Di-n-octyl phthalate (Surr)         Lab Sample ID: 885-2702-2 MS	%Recov	MB         M           sult         Q           <8.6            <28         M           MB         M           very         Q           107	ualifier	RI 	<u> </u>		Unit mg/Kg mg/Kg	-		4/11	<b>repared</b> 1/24 08:58 1/24 08:58	Analyz	Batch zed 11:12	
Analyte         Diesel Range Organics [C10-C28]         Motor Oil Range Organics [C28-C40]         Surrogate       9         Di-n-octyl phthalate (Surr)         Lab Sample ID: LCS 885-3074/2-         Matrix: Solid         Analysis Batch: 3123         Analyte         Diesel Range Organics         [C10-C28]         Surrogate       %Rec         Di-n-octyl phthalate (Surr)         Lab Sample ID: 885-2702-2 MS	%Recov	esult Q <8.6 <28 MB M very Q	ualifier B	11 51 <i>Limits</i>	<u> </u>		mg/K	-	_ 0	4/11	1/24 08:58	Analyz 04/11/24	<b>zed</b> 11:12	Dil Fa
Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate 9 Di-n-octyl phthalate (Surr) Lab Sample ID: LCS 885-3074/2- Matrix: Solid Analysis Batch: 3123 Analyte Diesel Range Organics [C10-C28] Surrogate %Rec Di-n-octyl phthalate (Surr) Lab Sample ID: 885-2702-2 MS	%Recov	esult Q <8.6 <28 MB M very Q	ualifier B	11 51 <i>Limits</i>	<u> </u>		mg/K	-	_ 0	4/11	1/24 08:58	3 04/11/24	11:12	
Diesel Range Organics [C10-C28]         Motor Oil Range Organics [C28-C40]         Surrogate       9         Di-n-octyl phthalate (Surr)         Lab Sample ID: LCS 885-3074/2-         Matrix: Solid         Analysis Batch: 3123         Analyte         Diesel Range Organics         [C10-C28]         Surrogate       %Rec         Di-n-octyl phthalate (Surr)         Lab Sample ID: 885-2702-2 MS	%Recov	<8.6 <28 MB M very Q	B	11 51 <i>Limits</i>	<u> </u>		mg/K	-	_ 0	4/11	1/24 08:58	3 04/11/24	11:12	
Motor Oil Range Organics [C28-C40]         Surrogate       9         Di-n-octyl phthalate (Surr)         Lab Sample ID: LCS 885-3074/2-         Matrix: Solid         Analysis Batch: 3123         Analyte         Diesel Range Organics         [C10-C28]         Surrogate       %Rec         Di-n-octyl phthalate (Surr)         Lab Sample ID: 885-2702-2 MS	%Recov	<28 MB M very Q		50 <i>Limits</i>				-						
Surrogate       9         Di-n-octyl phthalate (Surr)       2         Lab Sample ID: LCS 885-3074/2-         Matrix: Solid         Analysis Batch: 3123         Analyte         Diesel Range Organics         [C10-C28]         Surrogate       %Rec         Di-n-octyl phthalate (Surr)         Lab Sample ID: 885-2702-2 MS	%Recov	MB M very Q		Limits	-	20	ing/i	9	0	-1/1	1/24 00.00	04/11/24	11.12	
Di-n-octyl phthalate (Surr) Lab Sample ID: LCS 885-3074/2- Matrix: Solid Analysis Batch: 3123 Analyte Diesel Range Organics [C10-C28] Surrogate Di-n-octyl phthalate (Surr) Lab Sample ID: 885-2702-2 MS		very Q			-									
Di-n-octyl phthalate (Surr)         Lab Sample ID: LCS 885-3074/2-         Matrix: Solid         Analysis Batch: 3123         Analyte         Diesel Range Organics         [C10-C28]         Surrogate       %Rec         Di-n-octyl phthalate (Surr)         Lab Sample ID: 885-2702-2 MS			ualifier		-									
Lab Sample ID: LCS 885-3074/2- Matrix: Solid Analysis Batch: 3123         Analyte         Diesel Range Organics [C10-C28]         Surrogate       %Rec         Di-n-octyl phthalate (Surr)         Lab Sample ID: 885-2702-2 MS	- <b>A</b>	107		62 - 134					_		repared	Analyz		Dil Fa
Matrix: Solid         Analysis Batch: 3123         Analyte         Diesel Range Organics         [C10-C28]         Surrogate       %Rec         Di-n-octyl phthalate (Surr)         Lab Sample ID: 885-2702-2 MS	-A								0	4/1	1/24 08:58	3 04/11/24	11:12	
Matrix: Solid         Analysis Batch: 3123         Analyte         Diesel Range Organics         [C10-C28]         Surrogate       %Rec         Di-n-octyl phthalate (Surr)         Lab Sample ID: 885-2702-2 MS								Clie	ont S	ar	nnle ID:	Lab Con	utrol S	amnle
Analysis Batch: 3123 Analyte Diesel Range Organics [C10-C28] Surrogate Di-n-octyl phthalate (Surr) Lab Sample ID: 885-2702-2 MS										Jan	inpic iD.	Prep Ty		
Analyte         Diesel Range Organics         [C10-C28]         Surrogate       %Rec         Di-n-octyl phthalate (Surr)         Lab Sample ID: 885-2702-2 MS													Batch	
Diesel Range Organics [C10-C28] Surrogate %Rec Di-n-octyl phthalate (Surr) Lab Sample ID: 885-2702-2 MS				Spike	LCS	LCS						%Rec		
Diesel Range Organics [C10-C28] Surrogate %Rec Di-n-octyl phthalate (Surr) Lab Sample ID: 885-2702-2 MS				Added	Result	Qua	lifier	Unit		D	%Rec	Limits		
Surrogate %Rec Di-n-octyl phthalate (Surr) Lab Sample ID: 885-2702-2 MS				50.0	44.1			mg/Kg		_	88	60 - 135		
Di-n-octyl phthalate (Surr) Lab Sample ID: 885-2702-2 MS	LCS	100												
Di-n-octyl phthalate (Surr) Lab Sample ID: 885-2702-2 MS			ior	Limits										
 Lab Sample ID: 885-2702-2 MS	104	Quann		62 - 134										
				02-707										
									Cli	enf	t Sampl	e ID: WE	S24-0 [,]	1,8-17
Matrix: Solid												Prep Ty	pe: To	tal/NA
Analysis Batch: 3123												Prep	Batch	: 3074
S	ample	Sampl	е	Spike	MS	MS						%Rec		
<b>*</b>	Result	Qualifi	er	Added	Result	Qua	lifier	Unit		D	%Rec	Limits		
Diesel Range Organics [C10-C28]	<8.4			45.0	33.4			mg/Kg			74	44 - 136		
	MS	MS												
Surrogate %Rec	covery		ier	Limits										
Di-n-octyl phthalate (Surr)	104			62 - 134										
_														
Lab Sample ID: 885-2702-2 MSD									Cli	ent	t Sampl	e ID: WE		
Matrix: Solid												Prep Ty	-	
Analysis Batch: 3123													Batch	
	ample	•		Spike	MSD					_	~·-	%Rec		RPD
-	Result	Qualifi	er	Added	Result	Qua	lifier	Unit		D	<u>%Rec</u>	Limits	RPD	
Diesel Range Organics [C10-C28]	<8.4			46.9	41.9			mg/Kg			89	44 - 136	23	32
	MSD	MSD												
	covery	Qualifi	ier	Limits										
Di-n-octyl phthalate (Surr)	99			62 - 134										
Method: 300.0 - Anions, Ion	Chro													

Lab Sample ID: MB 885-3137/1- Matrix: Solid Analysis Batch: 3168					Client Sample ID: Method Bla Prep Type: Total Prep Batch: 3				
	MB	MB							
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.5		1.5	1.5	mg/Kg		04/11/24 14:23	04/11/24 21:08	1

5 6

Job ID: 885-2702-1

**Eurofins Albuquerque**
# **QC Sample Results**

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Job ID: 885-2702-1

Client: Vertex Project/Site: Crow Flats Fed Com1

### Method: 300.0 - Anions, Ion Chromatography (Continued)

_ Lab Sample ID: LCS 885-3137/2-A							Cli	ent S	ample ID	: Lab Control	Sample
Matrix: Solid								on o		Prep Type: 1	
Analysis Batch: 3168										Prep Bate	
			Spike		LCS	LCS				%Rec	
Analyte			Added		Result	Qualifie	· Unit	[	D %Rec	Limits	
Chloride			15.0		14.0		mg/Kg		93	90 - 110	
								CI	lient Sam	ple ID: Metho	d Blank
Matrix: Solid										Prep Type: 1	
Analysis Batch: 3168											
	MB	MB									
Analyte	Result	Qualifier		RL		Uni	t	D	Prepared	Analyzed	Dil Fac
Chloride	<0.50			0.50		0.50 mg/	Kg			04/11/24 08:46	1
Lab Sample ID: MRL 885-3168/3							Cli	ent S	ample ID	: Lab Control	Sample
Matrix: Solid										Prep Type: 1	otal/NA
Analysis Batch: 3168											
-			Spike		MRL	MRL				%Rec	
Analyte			Added		Result	Qualifie	· Unit	[	D %Rec	Limits	
Chloride			0.500		0.529		mg/L		106	50 - 150	

# **QC Association Summary**

Client: Vertex Project/Site: Crow Flats Fed Com1

### GC VOA

#### Prep Batch: 3171

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
885-2702-1	WES24-01,0-7'	Total/NA	Solid	5035	
885-2702-2	WES24-01,8-17'	Total/NA	Solid	5035	
MB 885-3171/1-A	Method Blank	Total/NA	Solid	5035	
LCS 885-3171/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCS 885-3171/3-A	Lab Control Sample	Total/NA	Solid	5035	
Analysis Batch: 322	21				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2702-1	WES24-01,0-7'	Total/NA	Solid	8015D	3171
885-2702-2	WES24-01,8-17'	Total/NA	Solid	8015D	3171
MB 885-3171/1-A	Method Blank	Total/NA	Solid	8015D	3171
LCS 885-3171/2-A	Lab Control Sample	Total/NA	Solid	8015D	3171
Analysis Batch: 322	22				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2702-1	WES24-01,0-7'	Total/NA	Solid	8021B	3171
885-2702-2	WES24-01,8-17'	Total/NA	Solid	8021B	3171
MB 885-3171/1-A	Method Blank	Total/NA	Solid	8021B	3171
LCS 885-3171/3-A	Lab Control Sample	Total/NA	Solid	8021B	3171

### GC Semi VOA

### Prep Batch: 3074

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
885-2702-1	WES24-01,0-7'	Total/NA	Solid	SHAKE	
885-2702-2	WES24-01,8-17'	Total/NA	Solid	SHAKE	
MB 885-3074/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-3074/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-2702-2 MS	WES24-01,8-17'	Total/NA	Solid	SHAKE	
885-2702-2 MSD	WES24-01,8-17'	Total/NA	Solid	SHAKE	

#### **Analysis Batch: 3123**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2702-1	WES24-01,0-7'	Total/NA	Solid	8015D	3074
885-2702-2	WES24-01,8-17'	Total/NA	Solid	8015D	3074
MB 885-3074/1-A	Method Blank	Total/NA	Solid	8015D	3074
LCS 885-3074/2-A	Lab Control Sample	Total/NA	Solid	8015D	3074
885-2702-2 MS	WES24-01,8-17'	Total/NA	Solid	8015D	3074
885-2702-2 MSD	WES24-01,8-17'	Total/NA	Solid	8015D	3074

### HPLC/IC

#### Prep Batch: 3137

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
885-2702-1	WES24-01,0-7'	Total/NA	Solid	300_Prep	
885-2702-2	WES24-01,8-17'	Total/NA	Solid	300_Prep	
MB 885-3137/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-3137/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
Analysis Batch: 316	38				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2702-1	WES24-01,0-7'	Total/NA	Solid	300.0	3137

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Job ID: 885-2702-1

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# **QC Association Summary**

Client: Vertex Project/Site: Crow Flats Fed Com1

# HPLC/IC (Continued)

#### Analysis Batch: 3168 (Continued)

Lab Sample ID 885-2702-2	Client Sample ID WES24-01,8-17'	Prep Type Total/NA	Matrix Solid	Method 300.0	Prep Batch 3137
MB 885-3137/1-A	Method Blank	Total/NA	Solid	300.0	3137
MB 885-3168/4	Method Blank	Total/NA	Solid	300.0	
LCS 885-3137/2-A	Lab Control Sample	Total/NA	Solid	300.0	3137
MRL 885-3168/3	Lab Control Sample	Total/NA	Solid	300.0	

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Job ID: 885-2702-1

Project/Site: Crow Flats Fed Com1

Date Collected: 04/09/24 16:45

Client Sample ID: WES24-01,0-7'

**Client: Vertex** 

Total/NA

Total/NA

Total/NA

1

20

3123 JU

3137 KB

3168 RC

EET ALB

EET ALB

EET ALB

Job ID: 885-2702-1

# Lab Sample ID: 885-2702-1

Matrix: Solid

5

8

#### Date Received: 04/11/24 07:50 Batch Batch Dilution Batch Prepared Method Factor Number Analyst or Analyzed Prep Type Туре Run Lab Total/NA 5035 3171 JP EET ALB 04/12/24 09:11 Prep Total/NA 8015D 04/12/24 13:51 Analysis 1 3221 JP EET ALB Total/NA Prep 5035 3171 JP EET ALB 04/12/24 09:11 Total/NA 04/12/24 13:51 Analysis 8021B 1 3222 JP EET ALB Total/NA Prep SHAKE 3074 JU EET ALB 04/11/24 08:58

## Lab Sample ID: 885-2702-2

04/11/24 11:37

04/11/24 14:23

04/11/24 23:40

Matrix: Solid

#### Client Sample ID: WES24-01,8-17' Date Collected: 04/09/24 16:55 Date Received: 04/11/24 07:50

Analysis

Analysis

Prep

8015D

300.0

300 Prep

_	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			3171	JP	EET ALB	04/12/24 09:11
Total/NA	Analysis	8015D		1	3221	JP	EET ALB	04/12/24 14:14
Total/NA	Prep	5035			3171	JP	EET ALB	04/12/24 09:11
Total/NA	Analysis	8021B		1	3222	JP	EET ALB	04/12/24 14:14
Total/NA	Prep	SHAKE			3074	JU	EET ALB	04/11/24 08:58
Total/NA	Analysis	8015D		1	3123	JU	EET ALB	04/11/24 11:49
Total/NA	Prep	300_Prep			3137	KB	EET ALB	04/11/24 14:23
Total/NA	Analysis	300.0		20	3168	RC	EET ALB	04/11/24 23:55

#### Laboratory References:

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

**Eurofins Albuquerque** 

# **Accreditation/Certification Summary**

Client: Vertex Project/Site: Crow Flats Fed Com1

Laboratory: Eurofins Albuquerque

Authority	Program	Identification Number	Expiration Date	
Dregon	NELAP	NM100001	02-26-25	

Job ID: 885-2702-1

**Eurofins Albuquerque** 

	AL AR		rij Po		885-2702 COC																ige 25		
	HALL ENVIRONMENTAL ANALYSIS LABORATORY		kins NE - Albuquerque, NM 87109	5 Fax 505-345-4107	Analysis Request	 	S '*C	од ' ^г S0Z	у) ИО ³	10 o	y 83 3 Me 3r, <i>N</i> (AO)	20145 b 20145 b 2016 (V 20161 C 20161 C		-7						at thurs home	Causing of the take on	$V_{1}$	3 4 5 6 7 8 9
			4901 Hawkins NE	Tel. 505-			N MR	2 P(	808/ a / c	səp Səp	15D(	1081 P				 			Domarke:	રે	COULON	sibility Any sub-c	<b>10</b> 11
Turn-Around Time:	Standard & Rush SOML OQU	ë	Crow Flats Fed Com 1		23t- 05855	Project Manager:	5				(including CF): 5.5-0.1=5.4 (°C)	Container Preservative HEAL No.	1 31	To T					Received by Via: Date Time Do	SIII Adally survey	Via-counter Date Time	rracted to other accredited laboratories This serves as notice of this pos	2 3 4 5 6 7 8 9 10 11
Chain-of-Custody Record			Mailing Address: M FiU		Phone #:	email or Fax#: P	age.	Level 4 (Full Validation)	□ Az Compliance			Sample Name	4/9/11/10-12 SOIL MESZY-01, 0-7'	1 10-h2SAN 1 15:91 1 00					Time. Relinquished by ,	AM	Date Time Relinquished by ) Re MU 10 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	If necessary, samples submitted to Hall Environmental may be subcont	

.

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Job Number: 885-2702-1

List Source: Eurofins Albuquerque

# Login Sample Receipt Checklist

Client: Vertex

#### Login Number: 2702 List Number: 1 Creator: Casarrubias, Tracy

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.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Received by OCD: 7/9/2024 1:19:06 PM



**Environment Testing** 

# ANALYTICAL REPORT

# **PREPARED FOR**

Attn: Chance Dixon Vertex 3101 Boyd Dr Carlsbad, New Mexico 88220 Generated 4/16/2024 4:01:30 PM

# JOB DESCRIPTION

Crow Flats Fed Com 1

# **JOB NUMBER**

885-2769-1

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

Authorized for release by

(505)345-3975

Andy Freeman, Business Unit Manager andy.freeman@et.eurofinsus.com

Generated 4/16/2024 4:01:30 PM

Released to Imaging: 7/9/2024 2:25:28 PM

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# **Definitions/Glossary**

Client: Vertex Project/Site: Crow Flats Fed Com 1 Job ID: 885-2769-1

Page	<b>263</b>	of 341	

Glossary		3
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	A
%R	Percent Recovery	
CFL	Contains Free Liquid	5
CFU	Colony Forming Unit	3
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)	8
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	9
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**

Job ID: 885-2769-1

Client: Vertex Project: Crow Flats Fed Com 1

# Eurofins Albuquerque

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#### Job ID: 885-2769-1

#### Job Narrative 885-2769-1

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample 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 4/12/2024 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 4.9°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.

RL

3.6

RL

0.018

0.036

0.036

Limits

15 - 244

Unit

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

D

D

Prepared

Prepared

Prepared

04/12/24 09:11

04/12/24 09:11

04/12/24 09:11 04/12/24 11:30

04/12/24 09:11 04/12/24 11:30

04/12/24 09:11 04/12/24 11:30

**Client: Vertex** Project/Site: Crow Flats Fed Com 1

Gasoline Range Organics [C6 - C10]

4-Bromofluorobenzene (Surr)

Analyte

Surrogate

Analyte

Benzene

Toluene

Ethylbenzene

#### Client Sample ID: BES24-12 16' Date Collected: 04/10/24 12:00 Date Received: 04/12/24 07:50

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Method: SW846 8021B - Volatile Organic Compounds (GC)

Result Qualifier

Result Qualifier

Qualifier

ND

101

ND

ND

ND

%Recovery

Xylenes, Total	ND		0.072	mg/Kg		04/12/24 09:11	04/12/24 11:30
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed
4-Bromofluorobenzene (Surr)	85		39 - 146			04/12/24 09:11	04/12/24 11:30
	I Range Or	ganics (DF	RO) (GC)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed
Diesel Range Organics [C10-C28]	15		9.2	mg/Kg		04/12/24 08:32	04/12/24 11:38
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		04/12/24 08:32	04/12/24 11:38
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed
Di-n-octyl phthalate (Surr)	96		62 - 134			04/12/24 08:32	04/12/24 11:38
	on Chroma	tography					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed
Chloride	370		60	mg/Kg		04/12/24 07:53	04/12/24 11:05
_							

**Eurofins Albuquerque** 

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Dil Fac

20

1

1

1

1

1

1

1

1

Job ID: 885-2769-1

### Lab Sample ID: 885-2769-1 Matrix: Solid

Analyzed

Analyzed

Analyzed

04/12/24 11:30

04/12/24 11:30

**Released to Imaging: 7/9/2024 2:25:28 PM** 

Client: Vertex Project/Site: Crow Flats Fed Com 1

#### Client Sample ID: BES24-13 16' Date Collected: 04/10/24 12:05 Date Received: 04/12/24 07:50

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**Eurofins Albuquerque** 

Job ID: 885-2769-1

# Lab Sample ID: 885-2769-2

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.0	mg/Kg		04/12/24 09:11	04/12/24 11:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		15 - 244			04/12/24 09:11	04/12/24 11:54	
Method: SW846 8021B - Volati	le Organic	Compound	ds (GC)					
Analyte	-	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.020	mg/Kg		04/12/24 09:11	04/12/24 11:54	1
Ethylbenzene	ND		0.040	mg/Kg		04/12/24 09:11	04/12/24 11:54	1
Toluene	ND		0.040	mg/Kg		04/12/24 09:11	04/12/24 11:54	1
Xylenes, Total	ND		0.079	mg/Kg		04/12/24 09:11	04/12/24 11:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		39 - 146			04/12/24 09:11	04/12/24 11:54	1
Method: SW846 8015D - Diese	I Range Or	ganics (DF	RO) (GC)					
Analyte	-	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	17		9.3	mg/Kg		04/12/24 08:32	04/12/24 11:51	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		04/12/24 08:32	04/12/24 11:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	97		62 - 134			04/12/24 08:32	04/12/24 11:51	1
Mathadi EDA 200.0 Aniana k	on Chroma	tography						
welhou: EPA 300.0 - Anions, in					_			
Method: EPA 300.0 - Anions, lo Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

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5

Client: Vertex Project/Site: Crow Flats Fed Com 1

#### Client Sample ID: BES24-14 16' Date Collected: 04/10/24 12:10 Date Received: 04/12/24 07:50

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.3	mg/Kg		04/12/24 09:11	04/12/24 12:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Bromofluorobenzene (Surr)	110		15 - 244			04/12/24 09:11	04/12/24 12:17	1
Method: SW846 8021B - Volat	tile Organic	Compound	ds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.021	mg/Kg		04/12/24 09:11	04/12/24 12:17	1
Ethylbenzene	ND		0.043	mg/Kg		04/12/24 09:11	04/12/24 12:17	1
Toluene	ND		0.043	mg/Kg		04/12/24 09:11	04/12/24 12:17	1
Kylenes, Total	ND		0.086	mg/Kg		04/12/24 09:11	04/12/24 12:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Bromofluorobenzene (Surr)	89		39 - 146			04/12/24 09:11	04/12/24 12:17	1
Method: SW846 8015D - Dies	el Range Or	ganics (DF	RO) (GC)					
Analyte	-	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4	mg/Kg		04/12/24 08:32	04/12/24 12:03	1
						04/40/04 00.00	04/12/24 12:03	
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		04/12/24 08:32	04/12/24 12.03	1
	ND %Recovery	Qualifier	47 Limits	mg/Kg		<i>Prepared</i>	Analyzed	1 Dil Fac
Surrogate		Qualifier		mg/Kg				•
Surrogate Di-n-octyl phthalate (Surr)	%Recovery 94		Limits	mg/Kg		Prepared	Analyzed	Dil Fac
Motor Oil Range Organics [C28-C40] <i>Surrogate</i> <i>Di-n-octyl phthalate (Surr)</i> Method: EPA 300.0 - Anions, Analyte	<u>%Recovery</u> 94		Limits	mg/Kg Unit	D	Prepared	Analyzed	Dil Fac

Matrix: Solid

5

Job ID: 885-2769-1

Lab Sample ID: 885-2769-3

**Client: Vertex** Project/Site: Crow Flats Fed Com 1

#### Client Sample ID: BES24-19 17' Date Collected: 04/10/24 14:10 Date Received: 04/12/24 07:50

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.2	mg/Kg		04/12/24 09:11	04/12/24 12:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		15 - 244			04/12/24 09:11	04/12/24 12:41	1
Method: SW846 8021B - Volat	ile Organic	Compound	ds (GC)					
Analyte	-	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.026	mg/Kg		04/12/24 09:11	04/12/24 12:41	1
Ethylbenzene	ND		0.052	mg/Kg		04/12/24 09:11	04/12/24 12:41	1
Toluene	ND		0.052	mg/Kg		04/12/24 09:11	04/12/24 12:41	1
Xylenes, Total	ND		0.10	mg/Kg		04/12/24 09:11	04/12/24 12:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		39 - 146			04/12/24 09:11	04/12/24 12:41	1
Method: SW846 8015D - Diese	el Range Or	ganics (DF	RO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3	mg/Kg		04/12/24 08:32	04/12/24 12:15	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		04/12/24 08:32	04/12/24 12:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	92		62 - 134			04/12/24 08:32	04/12/24 12:15	1
Method: EPA 300.0 - Anions, I	on Chroma	tography						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	250		59	mg/Kg		04/12/24 07:53	04/12/24 12:21	20

Job ID: 885-2769-1

#### Lab Sample ID: 885-2769-4 Matrix: Solid

**Eurofins Albuquerque** 

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### QC Sample Results

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**Client: Vertex** Job ID: 885-2769-1 Project/Site: Crow Flats Fed Com 1 Method: 8015D - Gasoline Range Organics (GRO) (GC) Lab Sample ID: MB 885-3171/1-A **Client Sample ID: Method Blank** Matrix: Solid Prep Type: Total/NA Analysis Batch: 3221 Prep Batch: 3171 MB MB **Result Qualifier** RL Unit D Analyzed Dil Fac Analyte Prepared 04/12/24 09:11 04/12/24 11:06 6 Gasoline Range Organics [C6 - C10] ND 5.0 mg/Kg 1 MB MB Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 15 - 244 04/12/24 09:11 4-Bromofluorobenzene (Surr) 102 04/12/24 11:06 1 Lab Sample ID: LCS 885-3171/2-A **Client Sample ID: Lab Control Sample** Matrix: Solid Prep Type: Total/NA Analysis Batch: 3221 Prep Batch: 3171 LCS LCS Spike %Rec Analyte Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics [C6 -25.0 25.6 mg/Kg 102 70 - 130 C10] LCS LCS Limits Surrogate %Recovery Qualifier 4-Bromofluorobenzene (Surr) 211 15 - 244 Method: 8021B - Volatile Organic Compounds (GC) Lab Sample ID: MB 885-3171/1-A **Client Sample ID: Method Blank** Matrix: Solid Prep Type: Total/NA **Analysis Batch: 3222** Prep Batch: 3171 MB MB Analyte Result Qualifier Unit Prepared RL D Analyzed Dil Fac Benzene ND 0.025 04/12/24 09:11 04/12/24 11:06 mg/Kg 1 Ethylbenzene ND 0.050 mg/Kg 04/12/24 09:11 04/12/24 11:06 1 Toluene ND 0.050 mg/Kg 04/12/24 09:11 04/12/24 11:06 1 04/12/24 09:11 04/12/24 11:06 Xylenes, Total ND 0.10 mg/Kg 1 MB MB Qualifier Surrogate %Recovery Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 86 39 - 146 04/12/24 09:11 04/12/24 11:06 1 Lab Sample ID: LCS 885-3171/3-A **Client Sample ID: Lab Control Sample** Matrix: Solid Prep Type: Total/NA Prep Batch: 3171 **Analysis Batch: 3222** LCS LCS Spike %Rec Analyte Added **Result Qualifier** Unit D %Rec Limits Benzene 1.00 0.846 mg/Kg 85 70 - 130 Ethylbenzene 1.00 0.863 mg/Kg 86 70 - 130 m,p-Xylene 2.00 1.76 mg/Kg 88 70 - 130 o-Xylene 1.00 0.856 mg/Kg 86 70 - 130 Toluene 1.00 0.853 85 70 - 130 mg/Kg Xylenes, Total 3.00 2.61 mg/Kg 87 70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		39 - 146

# **QC Sample Results**

Client: Vertex Project/Site: Crow Flats Fed Com 1

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

Lab Sample ID: MB 885-316	63/1-A								Clie	ent Samp	ple ID: Meth		
Matrix: Solid											Prep Type:		
Analysis Batch: 3204											Prep Bat	tch:	3163
	_	MB						_	_			_	
Analyte	Re		Qualifier	RL		Unit		D		repared	Analyzed		Dil Fac
Diesel Range Organics [C10-C28]	_	ND		10		mg/ł	0				04/12/24 10:4		1
Motor Oil Range Organics [C28-C40	)]	ND		50	)	mg/ł	ζg		04/1	2/24 08:32	2 04/12/24 10:4	-8	1
		MВ	МВ										
Surrogate	%Reco	very	Qualifier	Limits						repared	Analyzed		Dil Fac
Di-n-octyl phthalate (Surr)		102		62 - 134	-				04/1	2/24 08:32	2 04/12/24 10:4	18	1
Lab Sample ID: LCS 885-31	63/2-A						Cli	ent	t Sar	nple ID:	Lab Contro	ol Sa	mple
Matrix: Solid										· ·	Prep Type:		
Analysis Batch: 3204											Prep Bat	tch:	3163
-				Spike	LCS	LCS					%Rec		
Analyte		_		Added	Result	Qualifier	Unit		D	%Rec	Limits		
Diesel Range Organics				50.0	46.6		mg/Kg			93	60 - 135		
[C10-C28]													
	LCS	LCS	5										
Surrogate	%Recovery	Qua	lifier	Limits									
Di-n-octyl phthalate (Surr)	112			62 - 134									
Lab Sample ID: 885-2769-4	MS								Cli	ent Sam	ple ID: BES	24-1	9 17
Matrix: Solid											Prep Type:	Tota	al/NA
Analysis Batch: 3204											Prep Bat	tch:	3163
	Sample	Sam	nple	Spike	MS	MS					%Rec		
Analyte	Result	Qua	lifier	Added	Result	Qualifier	Unit		D	%Rec	Limits		
Diesel Range Organics [C10-C28]	ND			46.6	44.8		mg/Kg			96	44 - 136		
	MS	MS											
Surrogate	MS %Recoverv		lifier	Limits									
Surrogate Di-n-octyl phthalate (Surr)	MS %Recovery 95		lifier	Limits 62 - 134									
Di-n-octyl phthalate (Surr)	% <b>Recovery</b> 95		lifier						Cli	ent Sam	ple ID: BES	24-1	9 17
Di-n-octyl phthalate (Surr) Lab Sample ID: 885-2769-4	% <b>Recovery</b> 95		lifier						Cli	ent Sam	ple ID: BES Prep Type:		
Di-n-octyl phthalate (Surr) Lab Sample ID: 885-2769-4 Matrix: Solid	% <b>Recovery</b> 95		lifier						Cli	ent Sam	Prep Type:	Tota	al/NA
Di-n-octyl phthalate (Surr) Lab Sample ID: 885-2769-4	%Recovery 95 MSD	Qua		62 - 134	MSD	MSD			Cli	ent Sam		Tota	al/NA 3163
Di-n-octyl phthalate (Surr) Lab Sample ID: 885-2769-4 Matrix: Solid Analysis Batch: 3204	% <b>Recovery</b> 95	<u>Qua</u> Sarr	nple	62 - 134 Spike		MSD Qualifier	Unit		Cli	ent Sam %Rec	Prep Type: Prep Bat %Rec	Tota	al/NA
Di-n-octyl phthalate (Surr) Lab Sample ID: 885-2769-4 Matrix: Solid Analysis Batch: 3204 Analyte	%Recovery 95 MSD Sample	<u>Qua</u> Sarr	nple	62 - 134							Prep Type: Prep Bat %Rec	Tota tch:	al/NA 3163 RPC
Di-n-octyl phthalate (Surr) Lab Sample ID: 885-2769-4 Matrix: Solid Analysis Batch: 3204	%Recovery 95 MSD Sample Result	<u>Qua</u> Sarr	nple	62 - 134 Spike Added	Result		Unit mg/Kg			%Rec	Prep Type: Prep Bat %Rec Limits R	Tota tch:	al/NA 3163 RPD Limit
Di-n-octyl phthalate (Surr) Lab Sample ID: 885-2769-4 Matrix: Solid Analysis Batch: 3204 Analyte Diesel Range Organics	%Recovery 95 MSD Sample Result ND	Qua Sarr Qua	nple Ilifier	62 - 134 Spike Added	Result					%Rec	Prep Type: Prep Bat %Rec Limits R	Tota tch:	al/NA 3163 RPD Limit
Di-n-octyl phthalate (Surr) Lab Sample ID: 885-2769-4 Matrix: Solid Analysis Batch: 3204 Analyte Diesel Range Organics [C10-C28]	%Recovery 95 MSD Sample Result ND MSD	<u>Qua</u> Sam Qua	nple lifier	62 - 134 Spike Added 49.3	Result					%Rec	Prep Type: Prep Bat %Rec Limits R	Tota tch:	al/NA 3163 RPD Limit
Di-n-octyl phthalate (Surr) Lab Sample ID: 885-2769-4 Matrix: Solid Analysis Batch: 3204 Analyte Diesel Range Organics	%Recovery 95 MSD Sample Result ND	<u>Qua</u> Sam Qua	nple lifier	62 - 134 Spike Added	Result					%Rec	Prep Type: Prep Bat %Rec Limits R	Tota tch:	al/NA 3163 RPD Limit

Lab Sample ID: MB 885-3159/1-A Matrix: Solid Analysis Batch: 3227							le ID: Method Prep Type: To Prep Batcl	otal/NA
	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	mg/Kg		04/12/24 07:53	04/12/24 09:03	1

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Job ID: 885-2769-1

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	QC Sampi	e Resi	JIIS					1
Client: Vertex Project/Site: Crow Flats Fed Com 1							Job ID: 885-2769-1	2
Method: 300.0 - Anions, Ion Chroma	atography (Cor	ntinued)						3
Lab Sample ID: LCS 885-3159/2-A Matrix: Solid				Clier	nt Sai	mple ID	: Lab Control Sample Prep Type: Total/NA	4
Analysis Batch: 3227 Analyte	Spike Added		LCS Qualifier	Unit	D	%Rec	Prep Batch: 3159 %Rec Limits	5
Chloride	30.0	28.1		mg/Kg		94	90 - 110	6
								7
								8
								9
								10
								11

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# **QC Association Summary**

Client: Vertex Project/Site: Crow Flats Fed Com 1

#### Prep Batch: 3171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2769-1	BES24-12 16'	Total/NA	Solid	5035	
885-2769-2	BES24-13 16'	Total/NA	Solid	5035	
885-2769-3	BES24-14 16'	Total/NA	Solid	5035	
885-2769-4	BES24-19 17'	Total/NA	Solid	5035	
MB 885-3171/1-A	Method Blank	Total/NA	Solid	5035	
LCS 885-3171/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCS 885-3171/3-A	Lab Control Sample	Total/NA	Solid	5035	

#### Analysis Batch: 3221

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
885-2769-1	BES24-12 16'	Total/NA	Solid	8015D	3171
885-2769-2	BES24-13 16'	Total/NA	Solid	8015D	3171
885-2769-3	BES24-14 16'	Total/NA	Solid	8015D	3171
885-2769-4	BES24-19 17'	Total/NA	Solid	8015D	3171
MB 885-3171/1-A	Method Blank	Total/NA	Solid	8015D	3171
LCS 885-3171/2-A	Lab Control Sample	Total/NA	Solid	8015D	3171

#### Analysis Batch: 3222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2769-1	BES24-12 16'	Total/NA	Solid	8021B	3171
885-2769-2	BES24-13 16'	Total/NA	Solid	8021B	3171
885-2769-3	BES24-14 16'	Total/NA	Solid	8021B	3171
885-2769-4	BES24-19 17'	Total/NA	Solid	8021B	3171
MB 885-3171/1-A	Method Blank	Total/NA	Solid	8021B	3171
LCS 885-3171/3-A	Lab Control Sample	Total/NA	Solid	8021B	3171

### GC Semi VOA

#### Prep Batch: 3163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2769-1	BES24-12 16'	Total/NA	Solid	SHAKE	
885-2769-2	BES24-13 16'	Total/NA	Solid	SHAKE	
885-2769-3	BES24-14 16'	Total/NA	Solid	SHAKE	
885-2769-4	BES24-19 17'	Total/NA	Solid	SHAKE	
MB 885-3163/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-3163/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-2769-4 MS	BES24-19 17'	Total/NA	Solid	SHAKE	
885-2769-4 MSD	BES24-19 17'	Total/NA	Solid	SHAKE	

#### Analysis Batch: 3204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2769-1	BES24-12 16'	Total/NA	Solid	8015D	3163
885-2769-2	BES24-13 16'	Total/NA	Solid	8015D	3163
885-2769-3	BES24-14 16'	Total/NA	Solid	8015D	3163
885-2769-4	BES24-19 17'	Total/NA	Solid	8015D	3163
MB 885-3163/1-A	Method Blank	Total/NA	Solid	8015D	3163
LCS 885-3163/2-A	Lab Control Sample	Total/NA	Solid	8015D	3163
885-2769-4 MS	BES24-19 17'	Total/NA	Solid	8015D	3163
885-2769-4 MSD	BES24-19 17'	Total/NA	Solid	8015D	3163

Job ID: 885-2769-1

# **QC Association Summary**

Client: Vertex Project/Site: Crow Flats Fed Com 1

### HPLC/IC

#### Prep Batch: 3159

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2769-1	BES24-12 16'	Total/NA	Solid	300_Prep	
885-2769-2	BES24-13 16'	Total/NA	Solid	300_Prep	
885-2769-3	BES24-14 16'	Total/NA	Solid	300_Prep	
885-2769-4	BES24-19 17'	Total/NA	Solid	300_Prep	
MB 885-3159/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-3159/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

#### Analysis Batch: 3227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
885-2769-1	BES24-12 16'	Total/NA	Solid	300.0	3159	
885-2769-2	BES24-13 16'	Total/NA	Solid	300.0	3159	
885-2769-3	BES24-14 16'	Total/NA	Solid	300.0	3159	
885-2769-4	BES24-19 17'	Total/NA	Solid	300.0	3159	
MB 885-3159/1-A	Method Blank	Total/NA	Solid	300.0	3159	
LCS 885-3159/2-A	Lab Control Sample	Total/NA	Solid	300.0	3159	

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Job ID: 885-2769-1

# Lab Sample ID: 885-2769-1

Matrix: Solid

# Lab Sample ID: 885-2769-2

Lab Sample ID: 885-2769-3

Lab Sample ID: 885-2769-4

Matrix: Solid

Matrix: Solid

Client: Vertex Project/Site: Crow Flats Fed Com 1

### Client Sample ID: BES24-12 16' Date Collected: 04/10/24 12:00 Date Received: 04/12/24 07:50

_	Batch	Batch		Dilution	Batch			Prepared
Prep Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			3171	JP	EET ALB	04/12/24 09:11
Total/NA	Analysis	8015D		1	3221	JP	EET ALB	04/12/24 11:30
Total/NA	Prep	5035			3171	JP	EET ALB	04/12/24 09:11
Total/NA	Analysis	8021B		1	3222	JP	EET ALB	04/12/24 11:30
Total/NA	Prep	SHAKE			3163	JU	EET ALB	04/12/24 08:32
Total/NA	Analysis	8015D		1	3204	JU	EET ALB	04/12/24 11:38
Total/NA	Prep	300_Prep			3159	JT	EET ALB	04/12/24 07:53
Total/NA	Analysis	300.0		20	3227	RC	EET ALB	04/12/24 11:05

# Client Sample ID: BES24-13 16'

Date Collected: 04/10/24 12:05 Date Received: 04/12/24 07:50

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			3171	JP	EET ALB	04/12/24 09:11
Total/NA	Analysis	8015D		1	3221	JP	EET ALB	04/12/24 11:54
Total/NA	Prep	5035			3171	JP	EET ALB	04/12/24 09:11
Total/NA	Analysis	8021B		1	3222	JP	EET ALB	04/12/24 11:54
Total/NA	Prep	SHAKE			3163	JU	EET ALB	04/12/24 08:32
Total/NA	Analysis	8015D		1	3204	JU	EET ALB	04/12/24 11:51
Total/NA	Prep	300_Prep			3159	JT	EET ALB	04/12/24 07:53
Total/NA	Analysis	300.0		20	3227	RC	EET ALB	04/12/24 11:20

### Client Sample ID: BES24-14 16'

Date Collected: 04/10/24 12:10 Date Received: 04/12/24 07:50

	Batch	Batch		Dilution	Batch			Prepared
Ргер Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			3171	JP	EET ALB	04/12/24 09:11
Total/NA	Analysis	8015D		1	3221	JP	EET ALB	04/12/24 12:17
Total/NA	Prep	5035			3171	JP	EET ALB	04/12/24 09:11
Total/NA	Analysis	8021B		1	3222	JP	EET ALB	04/12/24 12:17
Total/NA	Prep	SHAKE			3163	JU	EET ALB	04/12/24 08:32
Total/NA	Analysis	8015D		1	3204	JU	EET ALB	04/12/24 12:03
Total/NA	Prep	300_Prep			3159	JT	EET ALB	04/12/24 07:53
Total/NA	Analysis	300.0		20	3227	RC	EET ALB	04/12/24 12:05

#### Client Sample ID: BES24-19 17' Date Collected: 04/10/24 14:10 Date Received: 04/12/24 07:50

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			3171	JP	EET ALB	04/12/24 09:11
Total/NA	Analysis	8015D		1	3221	JP	EET ALB	04/12/24 12:41

**Eurofins Albuquerque** 

**Matrix: Solid** 

**Client: Vertex** 

Job ID: 885-2769-1

# Project/Site: Crow Flats Fed Com 1 Client Sample ID: BES24-19 17'

Date Collected: 04/10/24 14:10 Date Received: 04/12/24 07:50

	Batch	Batch		Dilution	Batch			Prepared
Ргер Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			3171	JP	EET ALB	04/12/24 09:11
Total/NA	Analysis	8021B		1	3222	JP	EET ALB	04/12/24 12:41
Total/NA	Prep	SHAKE			3163	JU	EET ALB	04/12/24 08:32
Total/NA	Analysis	8015D		1	3204	JU	EET ALB	04/12/24 12:15
Total/NA	Prep	300_Prep			3159	JT	EET ALB	04/12/24 07:53
Total/NA	Analysis	300.0		20	3227	RC	EET ALB	04/12/24 12:21

#### Laboratory References:

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

**Eurofins Albuquerque** 

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Lab Sample ID: 885-2769-4 Matrix: Solid 7 8 9 10

# **Accreditation/Certification Summary**

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### Job ID: 885-2769-1

Client: Vertex Project/Site: Crow Flats Fed Com 1

### 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
Dregon	NELA	P	NM100001	02-26-25
<b>o</b> ,	s are included in this repo does not offer certificatior		not certified by the governing authori	ty. This list may include analytes
Analysis Method	Prep Method	Matrix	Analyte	
300.0	300_Prep	Solid	Chloride	
8015D	5035	Solid	Gasoline Range Organics	s [C6 - C10]
8015D	SHAKE	Solid	Diesel Range Organics [0	C10-C28]
8015D	SHAKE	Solid	Motor Oil Range Organic	s [C28-C40]
8021B	5035	Solid	Benzene	
8021B	5035	Solid	Ethylbenzene	
8021B	5035	Solid	Toluene	
	5035	Solid	Xylenes, Total	

**Eurofins Albuquerque** 

Received by OCD: 7/9/2024	19:06 PM	Page 277 of 341
865-2769 COC		1 2 0 0 0 0 0
<ul> <li>HALL ENVIRONME</li> <li>HALL ENVIRONME</li> <li>ANALYSIS LABORA</li> <li>ANALYSIS LABORA</li> <li>ANALYSIS LABORA</li> <li>ANALYSIS LABORA</li> <li>ANALYSIS LABORA</li> <li>ANALYSIS LABORA</li> </ul>	Image: Sector of the sector	Date       Time       Date       Date
Turn-Around Time: SAME DOU Standard Krush When Project Name: COW FLOTS Fed COM / Project #: 23E-05855	Project Manager:	
Chain-of-Custody Record Client: VEVTCX (EOC) Mailing Address: ひんらし	email or Fax#: QA/QC Package: CA/QC Package: CA/C	Date:       Time:       Relinquished by:       Via:         Date:       Time:       Received by:       Via:         Date:       Time:       Received by:       Via:         In eccessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories.       In eccessary.

# Login Sample Receipt Checklist

Client: Vertex

#### Login Number: 2769 List Number: 1 Creator: Casarrubias, Tracy

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.	True	
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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

List Source: Eurofins Albuquerque

Job Number: 885-2769-1

Received by OCD: 7/9/2024 1:19:06 PM



**Environment Testing** 

# ANALYTICAL REPORT

# **PREPARED FOR**

Attn: Chance Dixon Vertex 3101 Boyd Dr Carlsbad, New Mexico 88220 Generated 4/18/2024 4:48:44 PM

# **JOB DESCRIPTION**

Crow Flats Fed Com 1

# **JOB NUMBER**

885-2834-1

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Eurofins Albuquerque 4901 Hawkins NE Albuquerque NM 87109

See page two for job notos and contact information.

# **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

Authorized for release by

(505)345-3975

Andy Freeman, Business Unit Manager andy.freeman@et.eurofinsus.com

Generated 4/18/2024 4:48:44 PM

Released to Imaging: 7/9/2024 2:25:28 PM

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# Definitions/Glossary

	Definitions/Glossary	
Client: Vertex	Job ID: 885-2834-1	
Project/Site: (	Crow Flats Fed Com 1	
Qualifiers		3
GC VOA		
Qualifier	Qualifier Description	
S1+	Surrogate recovery exceeds control limits, high biased.	
HPLC/IC		5
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.	c
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	C
%R	Percent Recovery	c
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	

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

Reporting Limit or Requested Limit (Radiochemistry)

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

Negative / Absent

Positive / Present

Presumptive

Quality Control

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

ND

NEG

POS

PQL

QC

RER RL

RPD

TEF TEQ

TNTC

PRES

### **Case Narrative**

Job ID: 885-2834-1

Client: Vertex Project: Crow Flats Fed Com 1

# Eurofins Albuquerque

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#### Job ID: 885-2834-1

#### Job Narrative 885-2834-1

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample 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 4/13/2024 8:05 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 0.7°C.

#### Gasoline Range Organics

Method 8015D_GRO: Internal standard responses were outside of acceptance limits for the following samples: BES24-17, 18' (885-2834-1). The sample(s) shows evidence of matrix interference.

Method 8015D_GRO: Internal standard responses were outside of acceptance limits for the following samples: BES24-18, 18' (885-2834-4). The sample(s) shows evidence of matrix interference.

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** 

Job ID: 885-2834-1

Lab Sample ID: 885-2834-1

### Client: Vertex Project/Site: Crow Flats Fed Com 1

#### Client Sample ID: BES24-17, 18' Date Collected: 04/11/24 13:10 Date Received: 04/13/24 08:05

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	18		4.4	mg/Kg		04/15/24 10:29	04/15/24 12:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	253	S1+	15 - 244			04/15/24 10:29	04/15/24 12:44	1
Method: SW846 8021B - Volati	le Organic	Compound	ds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.022	mg/Kg		04/15/24 10:29	04/15/24 12:44	1
Ethylbenzene	0.050		0.044	mg/Kg		04/15/24 10:29	04/15/24 12:44	1
oluene	ND		0.044	mg/Kg		04/15/24 10:29	04/15/24 12:44	1
(ylenes, Total	0.22		0.088	mg/Kg		04/15/24 10:29	04/15/24 12:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		39 - 146			04/15/24 10:29	04/15/24 12:44	1
Method: SW846 8015D - Diese	I Range Or	ganics (DF	RO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Notor Oil Range Organics [C28-C40]	ND		48	mg/Kg		04/15/24 13:24	04/15/24 18:27	1
Diesel Range Organics [C10-C28]	45		9.7	mg/Kg		04/15/24 13:24	04/15/24 18:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	97		62 - 134			04/15/24 13:24	04/15/24 18:27	1
Method: EPA 300.0 - Anions, I	on Chroma	tography						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	320		60	mg/Kg		04/15/24 15:17	04/15/24 21:55	20

Matrix: Solid

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Client: Vertex Project/Site: Crow Flats Fed Com 1

#### Client Sample ID: BES24-16, 17' Date Collected: 04/11/24 13:15 Date Received: 04/13/24 08:05

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.4	mg/Kg		04/15/24 10:29	04/15/24 13:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		15 - 244			04/15/24 10:29	04/15/24 13:08	1
Method: SW846 8021B - Volat	tile Organic	Compoun	ds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.027	mg/Kg		04/15/24 10:29	04/15/24 13:08	1
Ethylbenzene	ND		0.054	mg/Kg		04/15/24 10:29	04/15/24 13:08	1
Toluene	ND		0.054	mg/Kg		04/15/24 10:29	04/15/24 13:08	1
Xylenes, Total	ND		0.11	mg/Kg		04/15/24 10:29	04/15/24 13:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		39 - 146			04/15/24 10:29	04/15/24 13:08	1
Method: SW846 8015D - Dies	el Range Or	ganics (DF	RO) (GC)					
Analyte	-	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		04/15/24 13:24	04/15/24 18:39	1
Diesel Range Organics [C10-C28]	ND		9.4	mg/Kg		04/15/24 13:24	04/15/24 18:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	94		62 - 134			04/15/24 13:24	04/15/24 18:39	1
	Ion Chroma	tography						
Method: EPA 300.0 - Anions, Analyte		<mark>tography</mark> Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Matrix: Solid

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Lab Sample ID: 885-2834-2

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Job ID: 885-2834-1

Matrix: Solid

Lab Sample ID: 885-2834-3

Client: Vertex Project/Site: Crow Flats Fed Com 1

#### Client Sample ID: BES24-20, 18' Date Collected: 04/11/24 13:20 Date Received: 04/13/24 08:05

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	17		4.3	mg/Kg		04/15/24 10:29	04/15/24 13:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	223		15 - 244			04/15/24 10:29	04/15/24 13:31	1
Method: SW846 8021B - Volati	ile Organic	Compound	ds (GC)					
Analyte	-	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.022	mg/Kg		04/15/24 10:29	04/15/24 13:31	1
Ethylbenzene	0.054		0.043	mg/Kg		04/15/24 10:29	04/15/24 13:31	1
Toluene	ND		0.043	mg/Kg		04/15/24 10:29	04/15/24 13:31	1
Xylenes, Total	0.10		0.086	mg/Kg		04/15/24 10:29	04/15/24 13:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		39 - 146			04/15/24 10:29	04/15/24 13:31	1
Method: SW846 8015D - Diese	Range Or	ganics (DF	RO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil Range Organics [C28-C40]	57		47	mg/Kg		04/15/24 13:24	04/15/24 18:52	1
Diesel Range Organics [C10-C28]	20		9.4	mg/Kg		04/15/24 13:24	04/15/24 18:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	91		62 - 134			04/15/24 13:24	04/15/24 18:52	1
Method: EPA 300.0 - Anions, I	on Chroma	tography						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	270		60	mg/Kg		04/15/24 15:17	04/15/24 22:46	20

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Job ID: 885-2834-1

Matrix: Solid

Lab Sample ID: 885-2834-4

Client: Vertex Project/Site: Crow Flats Fed Com 1

#### Client Sample ID: BES24-18, 18' Date Collected: 04/11/24 13:25 Date Received: 04/13/24 08:05

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	31		4.6	mg/Kg		04/15/24 10:29	04/15/24 13:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	310	S1+	15 - 244			04/15/24 10:29	04/15/24 13:55	1
Method: SW846 8021B - Volati	ile Organic	Compound	ds (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		04/15/24 10:29	04/15/24 13:55	1
Ethylbenzene	0.096		0.046	mg/Kg		04/15/24 10:29	04/15/24 13:55	1
Toluene	ND		0.046	mg/Kg		04/15/24 10:29	04/15/24 13:55	1
Xylenes, Total	ND		0.092	mg/Kg		04/15/24 10:29	04/15/24 13:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		39 - 146			04/15/24 10:29	04/15/24 13:55	1
Method: SW846 8015D - Diese	Range Or	ganics (DF	RO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		04/15/24 13:24	04/15/24 19:04	1
Diesel Range Organics [C10-C28]	22		9.1	mg/Kg		04/15/24 13:24	04/15/24 19:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	98		62 - 134			04/15/24 13:24	04/15/24 19:04	1
Method: EPA 300.0 - Anions, I	on Chroma	tography						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

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# **QC Sample Results**

Client: Vertex

Project/Site: Crow Flats Fed Com 1

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

_ Lab Sample ID: MB 885-32 Matrix: Solid	274/1-A						C	Clie	ent Samp	ole ID: Meth Prep Type	: To	tal/NA
Analysis Batch: 3341										Prep Ba	itch	: 3274
Analysis	Π.	MB MB	ы		11		_			<b>A</b>		
Analyte Gasoline Range Organics [C6 - C ²		ND Qualifier	<b>RL</b> 5.0		Unit mg/K		D		repared 5/24 10:30	Analyzed	<u>-</u>	Dil Fac
Gasoline Kange Organics [Co - C	10]	ND	5.0		iiig/ix	y	C	J4/ 1	5/24 10.30	04/13/24 12.	21	
		MB MB										
Surrogate	%Reco	very Qualifier	Limits				_		repared	Analyzed		Dil Fa
4-Bromofluorobenzene (Surr)		107	15 - 244				C	)4/1	5/24 10:30	04/15/24 12:	21	
Lab Sample ID: LCS 885-3	3274/2-A					Clie	nt s	Sar	nple ID:	Lab Contro	ol Sa	ampl
Matrix: Solid										Prep Type		
Analysis Batch: 3341										Prep Ba		
			Spike	LCS	LCS					%Rec		
Analyte			Added		Qualifier	Unit		D	%Rec	Limits		
Gasoline Range Organics [C6 - C10]			25.0	26.5		mg/Kg			106	70 - 130		
	LCS	LCS										
Surrogate	%Recovery	Qualifier	Limits									
4-Bromofluorobenzene (Surr)	219		15 - 244									
								<b>.</b>				-
Lab Sample ID: 885-2834- Matrix: Solid	1 1/15								ent Sam	ole ID: BES Prep Type		
Analysis Batch: 3341										Prep Ba		
Analysis Datch. 3341	Sample	Sample	Spike	MS	MS					%Rec	iten	. 527
Analyte	•	Qualifier	Added	-	Qualifier	Unit		D	%Rec	Limits		
Gasoline Range Organics [C6 - C10]	18		21.9	41.3		mg/Kg		_	108	70 - 130		
	MS	MS										
Surrogate	%Recovery		Limits									
4-Bromofluorobenzene (Surr)		S1+	15 - 244									
Loh Comula ID: 005 0004								211-			~ ~ ~	
Lab Sample ID: 885-2834- Matrix: Solid									ent Samp	ole ID: BES Prep Type		
Analysis Batch: 3341										Prep Ba		
Analysis Batch. 0041	Sample	Sample	Spike	MSD	MSD					%Rec		RP
Analyte	•	Qualifier	Added	-	Qualifier	Unit		D	%Rec		RPD	Limi
Gasoline Range Organics [C6 - C10]	18		21.9	41.0		mg/Kg		_	106	70 - 130	1	2
	MSD	MSD										
Surrogate	%Recovery		Limits									
4-Bromofluorobenzene (Surr)		S1+	15 - 244									
Method: 8021B - Volati	le Organio	c Compou	nds (GC)									
Lab Sample ID: MB 885-32	274/1-A						C	Clie	ent Samp	ole ID: Meth		
Matrix: Solid										Prep Type		
Analysis Batch: 3342										Prep Ba	itch	: 3274
Awalita	_	MB MB					_	_		A		
Analyte	Re	Sult Qualifier	RL		Unit				repared	Analyzed	<u>-</u> -	Dil Fa
Benzene		ND	0.025		mg/K	y	C	J4/1	5/24 10:30	04/15/24 12:	21	

	MB	MB					
Analyte	Result (	Qualifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	0.025	mg/Kg		04/15/24 10:30	04/15/24 12:21	1
Ethylbenzene	ND	0.050	mg/Kg		04/15/24 10:30	04/15/24 12:21	1
Toluene	ND	0.050	mg/Kg		04/15/24 10:30	04/15/24 12:21	1

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Job ID: 885-2834-1
ent: Vertex			QU	Sample					Job ID	: 885-2	834-1
oject/Site: Crow Flats Fed	Com 1										
ethod: 8021B - Volati	le Organic	: Co	mpour	nds (GC	) (Conti	nued)					
Lab Sample ID: MB 885-32 Matrix: Solid	274/1-A							Client Samp	Prep Ty	pe: Tot	al/NA
Analysis Batch: 3342		MB	MR						Prep	Batch:	3274
Analyte	Re		Qualifier	F	RL	Unit	D	Prepared	Analyz	ed	Dil Fac
Xylenes, Total		ND			10	mg/K		04/15/24 10:30			1
			MD								
Surrogate	%Reco	MB I verv	wo Qualifier	Limits				Prepared	Analyz	red	Dil Fac
4-Bromofluorobenzene (Surr)		88	guanner					04/15/24 10:30			1
Lab Sample ID: LCS 885-3	3274/3-A						Clien	t Sample ID:			
Matrix: Solid									Prep Ty		
Analysis Batch: 3342				Spike	1.00	LCS			Prep %Rec	Batch:	3274
Analyte				Spike Added	_	Qualifier	Unit	D %Rec	%Rec Limits		
Benzene				1.00	0.852	Quaimer	mg/Kg	<u>85</u>	70 - 130		
Ethylbenzene				1.00	0.867		mg/Kg		70 - 130		
Toluene				1.00	0.864		mg/Kg	86	70 - 130		
Xylenes, Total				3.00	2.61		mg/Kg	87	70 - 130		
-											
	1.00	100									
Surrogato	LCS		ifior	Limite							
I-Bromofluorobenzene (Surr) _ab Sample ID: 885-2834-	%Recovery 91		ifier	<i>Limits</i> 39 - 146				Client Samp			
4-Bromofluorobenzene (Surr) Lab Sample ID: 885-2834- Matrix: Solid	%Recovery 91		ifier						Prep Ty		al/NA
4-Bromofluorobenzene (Surr) Lab Sample ID: 885-2834- Matrix: Solid	%Recovery 91	Quali			MS	MS			Prep Ty	pe: Tot	al/NA
4-Bromofluorobenzene (Surr) Lab Sample ID: 885-2834- Matrix: Solid Analysis Batch: 3342	%Recovery 91 2 MS Sample Result	<u>Quali</u> Samp	ple	39 - 146 Spike Added	Result	MS Qualifier	Unit		Prep Ty Prep	pe: Tot	al/NA
4-Bromofluorobenzene (Surr) Lab Sample ID: 885-2834- Matrix: Solid Analysis Batch: 3342 Analyte Benzene	%Recovery 91 2 MS Sample Result ND	<u>Quali</u> Samp	ple	39 - 146 Spike Added 1.07	<b>Result</b> 0.880		mg/Kg	_ <mark>D %Rec</mark>	Prep Typ Prep %Rec Limits 70 - 130	pe: Tot	al/NA
4-Bromofluorobenzene (Surr) Lab Sample ID: 885-2834- Matrix: Solid Analysis Batch: 3342 Analyte Benzene Ethylbenzene	%Recovery 91 2 MS Sample Result ND ND	<u>Quali</u> Samp	ple	39 - 146 Spike Added 1.07 1.07	<b>Result</b> 0.880 0.903		mg/Kg mg/Kg	— <mark>D</mark> <u>%Rec</u> — 82 84	Prep Typ Prep %Rec Limits 70 - 130 70 - 130	pe: Tot	al/NA
4-Bromofluorobenzene (Surr) Lab Sample ID: 885-2834- Matrix: Solid Analysis Batch: 3342 Analyte Benzene Ethylbenzene Toluene	%Recovery 91 2 MS Sample Result ND ND ND	<u>Quali</u> Samp	ple	39 - 146 Spike Added 1.07 1.07 1.07	Result           0.880           0.903           0.900		mg/Kg mg/Kg mg/Kg	_ <mark>D %Rec</mark> 82 84 84	Prep Typ Prep %Rec Limits 70 - 130 70 - 130 70 - 130	pe: Tot	al/NA
4-Bromofluorobenzene (Surr) Lab Sample ID: 885-2834- Matrix: Solid Analysis Batch: 3342 Analyte Benzene Ethylbenzene Toluene	%Recovery 91 2 MS Sample Result ND ND	<u>Quali</u> Samp	ple	39 - 146 Spike Added 1.07 1.07	<b>Result</b> 0.880 0.903		mg/Kg mg/Kg	— <mark>D</mark> <u>%Rec</u> — 82 84	Prep Typ Prep %Rec Limits 70 - 130 70 - 130	pe: Tot	al/NA
4-Bromofluorobenzene (Surr) Lab Sample ID: 885-2834- Matrix: Solid Analysis Batch: 3342 Analyte Benzene Ethylbenzene Toluene	%Recovery 91 2 MS Sample Result ND ND ND	Quali Samp Quali	ple	39 - 146 Spike Added 1.07 1.07 1.07	Result           0.880           0.903           0.900		mg/Kg mg/Kg mg/Kg	_ <mark>D %Rec</mark> 82 84 84	Prep Typ Prep %Rec Limits 70 - 130 70 - 130 70 - 130	pe: Tot	al/NA
A-Bromofluorobenzene (Surr) Lab Sample ID: 885-2834- Matrix: Solid Analysis Batch: 3342 Analyte Benzene Ethylbenzene Toluene Kylenes, Total	%Recovery 91 2 MS Sample Result ND ND ND ND ND MS %Recovery	Quali Samı Quali	ple ifier	39 - 146 Spike Added 1.07 1.07 3.21 Limits	Result           0.880           0.903           0.900		mg/Kg mg/Kg mg/Kg	_ <mark>D %Rec</mark> 82 84 84	Prep Typ Prep %Rec Limits 70 - 130 70 - 130 70 - 130	pe: Tot	al/NA
4-Bromofluorobenzene (Surr) Lab Sample ID: 885-2834- Matrix: Solid Analysis Batch: 3342 Analyte Benzene Ethylbenzene Toluene Xylenes, Total Surrogate	%Recovery 91 2 MS Sample Result ND ND ND ND ND	Quali Samı Quali	ple ifier	39 - 146 Spike Added 1.07 1.07 3.21	Result           0.880           0.903           0.900		mg/Kg mg/Kg mg/Kg	_ <mark>D %Rec</mark> 82 84 84	Prep Typ Prep %Rec Limits 70 - 130 70 - 130 70 - 130	pe: Tot	al/NA
4-Bromofluorobenzene (Surr) Lab Sample ID: 885-2834- Matrix: Solid Analysis Batch: 3342 Analyte Benzene Ethylbenzene Toluene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr)	%Recovery 91 2 MS Sample Result ND ND ND ND MS %Recovery 90	Quali Samı Quali	ple ifier	39 - 146 Spike Added 1.07 1.07 3.21 Limits	Result           0.880           0.903           0.900		mg/Kg mg/Kg mg/Kg	_ <b>D</b> % <b>Rec</b> 82 84 84 84 84	Prep Typ Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130	pe: Tot Batch: 	al/NA 3274
4-Bromofluorobenzene (Surr) Lab Sample ID: 885-2834- Matrix: Solid Analysis Batch: 3342 Analyte Benzene Ethylbenzene Toluene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr) Lab Sample ID: 885-2834-	%Recovery 91 2 MS Sample Result ND ND ND ND MS %Recovery 90	Quali Samı Quali	ple ifier	39 - 146 Spike Added 1.07 1.07 3.21 Limits	Result           0.880           0.903           0.900		mg/Kg mg/Kg mg/Kg	D %Rec 82 84 84 84 84	Prep Typ Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130	pe: Tot Batch: 	al/NA 3274  6, 17'
A-Bromofluorobenzene (Surr) Lab Sample ID: 885-2834- Matrix: Solid Analysis Batch: 3342 Analyte Benzene Ethylbenzene Toluene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr) Lab Sample ID: 885-2834- Matrix: Solid	%Recovery 91 2 MS Sample Result ND ND ND ND MS %Recovery 90	Quali Samı Quali	ple ifier	39 - 146 Spike Added 1.07 1.07 3.21 Limits	Result           0.880           0.903           0.900		mg/Kg mg/Kg mg/Kg	D %Rec 82 84 84 84 84	Prep Ty Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	pe: Tot Batch:  ES24-1 pe: Tot	al/NA 3274  6, 17' al/NA
A-Bromofluorobenzene (Surr) Lab Sample ID: 885-2834- Matrix: Solid Analysis Batch: 3342 Analyte Benzene Ethylbenzene Toluene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr) Lab Sample ID: 885-2834- Matrix: Solid	%Recovery 91 2 MS Sample Result ND ND ND ND MS %Recovery 90	Quali Samı Quali	ple ifier	39 - 146 Spike Added 1.07 1.07 3.21 Limits	Result 0.880 0.903 0.900 2.72		mg/Kg mg/Kg mg/Kg	D %Rec 82 84 84 84 84	Prep Ty Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	pe: Tot Batch: 	al/NA 3274  6, 17' al/NA
A-Bromofluorobenzene (Surr) Lab Sample ID: 885-2834- Matrix: Solid Analysis Batch: 3342 Analyte Benzene Ethylbenzene Toluene Kylenes, Total Surrogate A-Bromofluorobenzene (Surr) Lab Sample ID: 885-2834- Matrix: Solid Analysis Batch: 3342	%Recovery         91         2 MS         Sample         Result         ND         ND         ND         MS         %Recovery         90         2 MSD	Quali Samp Quali MS Quali	ple ifier	39 - 146 Spike Added 1.07 1.07 1.07 3.21 Limits 39 - 146	Result 0.880 0.903 0.900 2.72 MSD	Qualifier	mg/Kg mg/Kg mg/Kg	D %Rec 82 84 84 84 84	Prep Ty Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 Prep Ty Prep Ty Prep	pe: Tot Batch:  ES24-1 pe: Tot	al/NA 3274 6, 17' al/NA 3274
A-Bromofluorobenzene (Surr) Lab Sample ID: 885-2834- Matrix: Solid Analysis Batch: 3342 Analyte Benzene Ethylbenzene Toluene Kylenes, Total Surrogate A-Bromofluorobenzene (Surr) Lab Sample ID: 885-2834- Matrix: Solid Analysis Batch: 3342 Analyte	%Recovery 91 2 MS Sample Result ND ND ND ND ND SmS 2 MSD	Quali Samp Quali MS Quali	ple ifier	39 - 146 Spike Added 1.07 1.07 3.21 Limits 39 - 146 Spike	Result 0.880 0.903 0.900 2.72 MSD	Qualifier	mg/Kg mg/Kg mg/Kg mg/Kg	D %Rec 82 84 84 84 84 Client Samp	Prep Typ Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 Prep Typ Prep %Rec	pe: Tot Batch:  ES24-1 pe: Tot Batch:	al/NA 3274 6, 17' al/NA 3274 RPD
A-Bromofluorobenzene (Surr) Lab Sample ID: 885-2834- Matrix: Solid Analysis Batch: 3342 Analyte Benzene Ethylbenzene Toluene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr) Lab Sample ID: 885-2834- Matrix: Solid Analysis Batch: 3342 Analyte Benzene Ethylbenzene Ethylbenzene	%Recovery         91         2 MS         Sample         Result         ND         ND         ND         MS         %Recovery         90         2 MSD         Sample         Result         ND         MS         %Recovery         90         2 MSD         Sample         Result         ND         ND         ND	Quali Samp Quali MS Quali	ple ifier	39 - 146         Spike         Added         1.07         1.07         3.21         Limits         39 - 146         Spike         Added         1.07         3.21	Result           0.880           0.903           0.900           2.72   MSD           Result           0.883           0.906	Qualifier	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	_ <u>D</u> <u>%Rec</u> 82 84 84 84 84 84 <b>Client Samp</b> _ <u>D</u> <u>%Rec</u> 83 85	Prep Typ Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 Prep Typ Prep %Rec Limits 70 - 130 70 - 130	ES24-1 pe: Tot Batch:  Batch:  0  0	6, 17' al/NA 3274 6, 17' al/NA 3274 RPD Limit 20 20
A-Bromofluorobenzene (Surr) Lab Sample ID: 885-2834- Matrix: Solid Analysis Batch: 3342 Analyte Benzene Ethylbenzene Toluene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr) Lab Sample ID: 885-2834- Matrix: Solid Analysis Batch: 3342 Analyte Benzene Ethylbenzene Toluene	%Recovery         91         2 MS         Sample         Result         ND         ND         ND         MS         %Recovery         90         2 MSD         Sample         Result         ND         MS         %Recovery         90         2 MSD         Sample         Result         ND	Quali Samp Quali MS Quali	ple ifier	39 - 146 Spike Added 1.07 1.07 3.21 Limits 39 - 146 Spike Added 1.07 1.07 1.07 1.07	Result           0.880           0.903           0.900           2.72           MSD           Result           0.883           0.906           0.893	Qualifier	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	_ <u>D</u> <u>%Rec</u> 82 84 84 84 84 84 <b>Client Samp</b> _ <u>D</u> <u>%Rec</u> 83 85	Prep Typ Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 Prep Typ Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130	ES24-1 pe: Tot Batch:	6, 17' al/NA 3274 6, 17' al/NA 3274 RPD Limit 20 20 20 20
A-Bromofluorobenzene (Surr) Lab Sample ID: 885-2834- Matrix: Solid Analysis Batch: 3342 Analyte Benzene Ethylbenzene Toluene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr) Lab Sample ID: 885-2834- Matrix: Solid Analysis Batch: 3342 Analyte Benzene Ethylbenzene Toluene	%Recovery         91         2 MS         Sample         Result         ND         ND         ND         MS         %Recovery         90         2 MSD         Sample         Result         ND         MS         %Recovery         90         2 MSD         Sample         Result         ND         ND         ND	Quali Samp Quali MS Quali	ple ifier	39 - 146         Spike         Added         1.07         1.07         3.21         Limits         39 - 146         Spike         Added         1.07         3.21	Result           0.880           0.903           0.900           2.72   MSD           Result           0.883           0.906	Qualifier	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	_ <u>D</u> <u>%Rec</u> 82 84 84 84 84 84 <b>Client Samp</b> _ <u>D</u> <u>%Rec</u> 83 85	Prep Typ Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 Prep Typ Prep %Rec Limits 70 - 130 70 - 130	ES24-1 pe: Tot Batch:  Batch:  0  0	6, 17' al/NA 3274 6, 17' al/NA 3274 RPD Limit 20 20
Surrogate 4-Bromofluorobenzene (Surr) Lab Sample ID: 885-2834- Matrix: Solid Analysis Batch: 3342 Analyte Benzene Ethylbenzene Toluene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr) Lab Sample ID: 885-2834- Matrix: Solid Analysis Batch: 3342 Analyte Benzene Ethylbenzene Toluene Xylenes, Total	%Recovery         91         2 MS         Sample         Result         ND         ND         ND         MS         %Recovery         90         2 MSD         Sample         Result         ND         MS         %Recovery         90         2 MSD         Sample         Result         ND         N	Quali Samı Quali MS Quali Samı Quali	ple ifier lifier	39 - 146 Spike Added 1.07 1.07 3.21 Limits 39 - 146 Spike Added 1.07 1.07 1.07 1.07	Result           0.880           0.903           0.900           2.72           MSD           Result           0.883           0.906           0.893	Qualifier	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	D %Rec 82 84 84 84 6 6 Client Samp 6 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Prep Typ Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 Prep Typ Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130	ES24-1 pe: Tot Batch:	6, 17' al/NA 3274 6, 17' al/NA 3274 RPD Limit 20 20 20 20

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Client: Vertex Project/Site: Crow Flats Fed Com 1

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

Lab Sample ID: MB 885-330	1/1 <b>-A</b>							Clie	nt Samp	ole ID: Method	
Matrix: Solid										Prep Type: To	
Analysis Batch: 3332										Prep Batc	h: 330
	М	в МВ									
Analyte	Resu	It Qualifier	RL		Unit		D	Pr	repared	Analyzed	Dil Fa
Motor Oil Range Organics [C28-C40	] N	D	50		mg/K	g	_	04/1	5/24 13:24	04/15/24 18:02	
Diesel Range Organics [C10-C28]	Ν	D	10		mg/K	g		04/1	5/24 13:24	04/15/24 18:02	
	М										
Surrogate	%Recover		Limits						repared	Analyzed	Dil Fa
Di-n-octyl phthalate (Surr)	ç	8	62 - 134					04/1	5/24 13:24	04/15/24 18:02	
Lab Sample ID: LCS 885-33	01/2-A					Cli	ent	San	nple ID:	Lab Control S	
Matrix: Solid										Prep Type: To	otal/N/
Analysis Batch: 3332										Prep Batc	h: <mark>330</mark>
			Spike	LCS	LCS					%Rec	
Analyte			Added	Result	Qualifier	Unit		D	%Rec	Limits	
Diesel Range Organics [C10-C28]			50.0	47.4		mg/Kg			95	60 - 135	
	LCS L	cs									
Surrogate	%Recovery Q	ualifier	Limits								
•	<b>%Recovery Q</b> 101	ualifier	Limits 62 - 134								
Di-n-octyl phthalate (Surr)	101		62 - 134								
Di-n-octyl phthalate (Surr) Iethod: 300.0 - Anions,	101 Ion Chron		62 - 134					Clie	ont Samr	le ID: Methor	1 Blan
Di-n-octyl phthalate (Surr) Iethod: 300.0 - Anions, Lab Sample ID: MB 885-331	101 Ion Chron		62 - 134					Clie	ent Samp	ole ID: Methoo Pren Tyne: T	
Di-n-octyl phthalate (Surr) Iethod: 300.0 - Anions, Lab Sample ID: MB 885-331 Matrix: Solid	101 Ion Chron		62 - 134					Clie	ent Samp	Prep Type: To	otal/N/
Di-n-octyl phthalate (Surr) Iethod: 300.0 - Anions, Lab Sample ID: MB 885-331 Matrix: Solid	101 Ion Chron 2/1-A	natograp	62 - 134					Clie	nt Samp		otal/N/
Di-n-octyl phthalate (Surr) Iethod: 300.0 - Anions, Lab Sample ID: MB 885-331 Matrix: Solid Analysis Batch: 3323	101 Ion Chron 2/1-A	natograp B MB	62 - 134 Dhy		linit					Prep Type: To Prep Batc	otal/N/ h: 331
Di-n-octyl phthalate (Surr) Iethod: 300.0 - Anions, Lab Sample ID: MB 885-331 Matrix: Solid Analysis Batch: 3323 Analyte	101 Ion Chron 2/1-A M Resu	natograp B MB It Qualifier	62 - 134 bhy 		Unit		<u>D</u>	Pr	repared	Prep Type: To Prep Batc	otal/N/ h: 331: 
Di-n-octyl phthalate (Surr) Method: 300.0 - Anions, Lab Sample ID: MB 885-331 Matrix: Solid Analysis Batch: 3323 Analyte	101 Ion Chron 2/1-A	natograp B MB It Qualifier	62 - 134 Dhy		Unit mg/K	9	D	Pr	repared	Prep Type: To Prep Batc	otal/N/ h: 331: 
Di-n-octyl phthalate (Surr) lethod: 300.0 - Anions, Lab Sample ID: MB 885-331 Matrix: Solid Analysis Batch: 3323 Analyte Chloride	101 Ion Chron 2/1-A M Resu	natograp B MB It Qualifier	62 - 134 bhy 				-	Pr 04/1	repared 5/24 15:17	Prep Type: To Prep Batch Analyzed 04/15/24 21:29	otal/N/ h: 331: Dil Fa
Di-n-octyl phthalate (Surr) lethod: 300.0 - Anions, Lab Sample ID: MB 885-331 Matrix: Solid Analysis Batch: 3323 Analyte Chloride Lab Sample ID: LCS 885-33	101 Ion Chron 2/1-A M Resu	natograp B MB It Qualifier	62 - 134 bhy 				-	Pr 04/1	repared 5/24 15:17	Prep Type: To Prep Batch Analyzed 04/15/24 21:29 Lab Control \$	otal/N/ h: 331 Dil Fa
Di-n-octyl phthalate (Surr) Method: 300.0 - Anions, Lab Sample ID: MB 885-331 Matrix: Solid Analysis Batch: 3323 Analyte Chloride Lab Sample ID: LCS 885-33 Matrix: Solid	101 Ion Chron 2/1-A M Resu	natograp B MB It Qualifier	62 - 134 bhy 				-	Pr 04/1	repared 5/24 15:17	Prep Type: To Prep Batcl Analyzed 04/15/24 21:29 Lab Control S Prep Type: To	otal/N/ h: 331 Dil Fa Dil Fa Samplotal/N/
Di-n-octyl phthalate (Surr) Method: 300.0 - Anions, Lab Sample ID: MB 885-331 Matrix: Solid Analysis Batch: 3323 Analyte Chloride Lab Sample ID: LCS 885-33 Matrix: Solid	101 Ion Chron 2/1-A M Resu	natograp B MB It Qualifier	62 - 134 ohy 				-	Pr 04/1	repared 5/24 15:17	Prep Type: To Prep Batch Analyzed 04/15/24 21:29 Lab Control \$	otal/N/ h: 331:  Dil Fa  Sample otal/N/
Di-n-octyl phthalate (Surr) Aethod: 300.0 - Anions, Lab Sample ID: MB 885-331 Matrix: Solid Analysis Batch: 3323 Analyte Chloride Lab Sample ID: LCS 885-33 Matrix: Solid Analysis Batch: 3323	101 Ion Chron 2/1-A M Resu	natograp B MB It Qualifier	62 - 134 bhy 	LCS	LCS	Cli	-	Pr 04/15	repared 5/24 15:17 nple ID:	Prep Type: To Prep Batcl 04/15/24 21:29 Lab Control S Prep Type: To Prep Batcl %Rec	otal/N/ h: 331:    Sample otal/N/
Di-n-octyl phthalate (Surr) Iethod: 300.0 - Anions, Lab Sample ID: MB 885-331 Matrix: Solid Analysis Batch: 3323 Analyte Chloride Lab Sample ID: LCS 885-33 Matrix: Solid Analysis Batch: 3323 Analyte	101 Ion Chron 2/1-A M Resu	natograp B MB It Qualifier	62 - 134 ohy 	LCS	mg/K		-	Pr 04/1	repared 5/24 15:17	Prep Type: To Prep Batcl 04/15/24 21:29 Lab Control S Prep Type: To Prep Batcl	otal/N/ h: 331:  Dil Fa  Sample otal/N/
Di-n-octyl phthalate (Surr) lethod: 300.0 - Anions, Lab Sample ID: MB 885-331 Matrix: Solid Analysis Batch: 3323 Analyte Chloride Lab Sample ID: LCS 885-33 Matrix: Solid Analysis Batch: 3323 Analyte Chloride	101 Ion Chron 2/1-A M Resu N 12/2-A	natograp B MB It Qualifier	62 - 134 <b>bhy</b> RL 1.5 Spike Added	LCS Result	LCS	Clie Unit	-	Pr 04/13 San	repared 5/24 15:17 mple ID: <u>%Rec</u> 94	Prep Type: To Prep Batcl 04/15/24 21:29 Lab Control S Prep Type: To Prep Batcl %Rec Limits 90 - 110	otal/N/ h: 331 
Di-n-octyl phthalate (Surr) Iethod: 300.0 - Anions, Lab Sample ID: MB 885-331 Matrix: Solid Analysis Batch: 3323 Analyte Chloride Lab Sample ID: LCS 885-33 Matrix: Solid Analysis Batch: 3323 Analyte Chloride Lab Sample ID: 885-2834-4	101 Ion Chron 2/1-A M Resu N 12/2-A	natograp B MB It Qualifier	62 - 134 <b>bhy</b> RL 1.5 Spike Added	LCS Result	LCS	Clie Unit	-	Pr 04/13 San	repared 5/24 15:17 mple ID: <u>%Rec</u> 94	Prep Type: To Prep Batcl 04/15/24 21:29 Lab Control S Prep Type: To Prep Batcl %Rec Limits 90 - 110	otal/N/ h: 331 Dil Fa Sample otal/N/ h: 331 
Di-n-octyl phthalate (Surr) Iethod: 300.0 - Anions, Lab Sample ID: MB 885-331 Matrix: Solid Analysis Batch: 3323 Analyte Chloride Lab Sample ID: LCS 885-33 Matrix: Solid Analysis Batch: 3323 Analyte Chloride Lab Sample ID: 885-2834-4 Matrix: Solid	101 Ion Chron 2/1-A M Resu N 12/2-A	natograp B MB It Qualifier	62 - 134 <b>bhy</b> RL 1.5 Spike Added	LCS Result	LCS	Clie Unit	-	Pr 04/13 San	repared 5/24 15:17 mple ID: <u>%Rec</u> 94	Prep Type: To Prep Batcl 04/15/24 21:29 Lab Control S Prep Type: To Prep Batcl %Rec Limits 90 - 110 Die ID: BES24 Prep Type: To	otal/N/ h: 331 Dil Fa Sample otal/N/ h: 331 
Di-n-octyl phthalate (Surr) Iethod: 300.0 - Anions, Lab Sample ID: MB 885-331 Matrix: Solid Analysis Batch: 3323 Analyte Chloride Lab Sample ID: LCS 885-33 Matrix: Solid Analysis Batch: 3323 Analyte Chloride Lab Sample ID: 885-2834-4 Matrix: Solid	101 Ion Chron 2/1-A M Resu N 12/2-A	natograp	62 - 134 hy RL 1.5 Spike Added 15.0	LCS Result 14.1	LCS Qualifier	Clie Unit	-	Pr 04/13 San	repared 5/24 15:17 mple ID: <u>%Rec</u> 94	Prep Type: To Prep Batcl 04/15/24 21:29 Lab Control S Prep Type: To Prep Batcl %Rec Limits 90 - 110 Die ID: BES24 Prep Type: To Prep Batcl	otal/N/ h: 3312 
Surrogate Di-n-octyl phthalate (Surr) Aethod: 300.0 - Anions, Lab Sample ID: MB 885-331 Matrix: Solid Analysis Batch: 3323 Analyte Chloride Lab Sample ID: LCS 885-33 Matrix: Solid Analysis Batch: 3323 Analyte Chloride Lab Sample ID: 885-2834-4 Matrix: Solid Analysis Batch: 3323 Analyte	101 Ion Chron 2/1-A M Resu N 12/2-A	natograr B MB It Qualifier D	62 - 134 <b>bhy</b> RL 1.5 Spike Added	LCS Result 14.1	LCS	Clie Unit	-	<u>Pr</u> 04/1: : San _ <u>D</u> Clie	repared 5/24 15:17 mple ID: <u>%Rec</u> 94	Prep Type: To Prep Batcl 04/15/24 21:29 Lab Control S Prep Type: To Prep Batcl %Rec Limits 90 - 110 Die ID: BES24 Prep Type: To	otal/N/ h: 3312 

Chloride	230		30.1	258	4	mg/Kg		90	50 - 150		
Lab Sample ID: 885-2834-4 M Matrix: Solid Analysis Batch: 3323	MSD						Clie	ent Sam	ple ID: Bl Prep Ty Prep		al/NA
-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	230		29.9	252	4	mg/Kg		69	50 - 150	3	20

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5 6 7

Job ID: 885-2834-1

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ethod: 300.0 - Anions, Ion (	Chroma	atograp	hy (Co	ontin	iued)						
Lab Sample ID: MB 885-3323/4 Matrix: Solid Analysis Batch: 3323								Clie	ent Sam	ple ID: Metho Prep Type: T	
-											
Analyte	Result ND	Qualifier		<b>RL</b> 0.50		<u> </u>		D P	repared	Analyzed 04/15/24 08:58	Dil Fac
Lab Sample ID: MRL 885-3323/3 Matrix: Solid							Clie	nt Sa	mple ID	: Lab Control Prep Type: T	
Analysis Batch: 3323			Spike		MRL	MRL				%Rec	
Analyte			Added	ſ	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride			0.500		0.522		mg/L		104	50 - 150	

Eurofins Albuquerque

Released to Imaging: 7/9/2024 2:25:28 PM

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# **QC Association Summary**

Client: Vertex Project/Site: Crow Flats Fed Com 1

# Prep Batch: 3274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2834-1	BES24-17, 18'	Total/NA	Solid	5035	
885-2834-2	BES24-16, 17'	Total/NA	Solid	5035	
885-2834-3	BES24-20, 18'	Total/NA	Solid	5035	
885-2834-4	BES24-18, 18'	Total/NA	Solid	5035	
MB 885-3274/1-A	Method Blank	Total/NA	Solid	5035	
LCS 885-3274/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCS 885-3274/3-A	Lab Control Sample	Total/NA	Solid	5035	
885-2834-1 MS	BES24-17, 18'	Total/NA	Solid	5035	
885-2834-1 MSD	BES24-17, 18'	Total/NA	Solid	5035	
885-2834-2 MS	BES24-16, 17'	Total/NA	Solid	5035	
885-2834-2 MSD	BES24-16, 17'	Total/NA	Solid	5035	

# Analysis Batch: 3341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2834-1	BES24-17, 18'	Total/NA	Solid	8015D	3274
885-2834-2	BES24-16, 17'	Total/NA	Solid	8015D	3274
885-2834-3	BES24-20, 18'	Total/NA	Solid	8015D	3274
885-2834-4	BES24-18, 18'	Total/NA	Solid	8015D	3274
MB 885-3274/1-A	Method Blank	Total/NA	Solid	8015D	3274
LCS 885-3274/2-A	Lab Control Sample	Total/NA	Solid	8015D	3274
885-2834-1 MS	BES24-17, 18'	Total/NA	Solid	8015D	3274
885-2834-1 MSD	BES24-17, 18'	Total/NA	Solid	8015D	3274

# Analysis Batch: 3342

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
885-2834-1	BES24-17, 18'	Total/NA	Solid	8021B	3274
885-2834-2	BES24-16, 17'	Total/NA	Solid	8021B	3274
885-2834-3	BES24-20, 18'	Total/NA	Solid	8021B	3274
885-2834-4	BES24-18, 18'	Total/NA	Solid	8021B	3274
MB 885-3274/1-A	Method Blank	Total/NA	Solid	8021B	3274
LCS 885-3274/3-A	Lab Control Sample	Total/NA	Solid	8021B	3274
885-2834-2 MS	BES24-16, 17'	Total/NA	Solid	8021B	3274
885-2834-2 MSD	BES24-16, 17'	Total/NA	Solid	8021B	3274

# GC Semi VOA

# Prep Batch: 3301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2834-1	BES24-17, 18'	Total/NA	Solid	SHAKE	
885-2834-2	BES24-16, 17'	Total/NA	Solid	SHAKE	
885-2834-3	BES24-20, 18'	Total/NA	Solid	SHAKE	
885-2834-4	BES24-18, 18'	Total/NA	Solid	SHAKE	
MB 885-3301/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-3301/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

# Analysis Batch: 3332

Lab Sample ID 885-2834-1	Client Sample ID BES24-17, 18'	Prep Type Total/NA	Matrix Solid	Method 8015D	Prep Batch
885-2834-2	BES24-16, 17'	Total/NA	Solid	8015D	3301
885-2834-3	BES24-20, 18'	Total/NA	Solid	8015D	3301
885-2834-4	BES24-18, 18'	Total/NA	Solid	8015D	3301

# **Eurofins Albuquerque**

# Job ID: 885-2834-1

# **QC Association Summary**

Client: Vertex Project/Site: Crow Flats Fed Com 1

# GC Semi VOA (Continued)

# Analysis Batch: 3332 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method 8015D	Prep Batch
MB 885-3301/1-A	Method Blank	Total/NA	Solid		3301
LCS 885-3301/2-A	Lab Control Sample	Total/NA	Solid	8015D	3301

# HPLC/IC

## Prep Batch: 3312

MB 885-3301/1-A	Method Blank	Total/NA	Solid	8015D	3301
LCS 885-3301/2-A	Lab Control Sample	Total/NA	Solid	8015D	3301
HPLC/IC					
Prep Batch: 3312					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2834-1	BES24-17, 18'	Total/NA	Solid	300_Prep	
885-2834-2	BES24-16, 17'	Total/NA	Solid	300_Prep	
885-2834-3	BES24-20, 18'	Total/NA	Solid	300_Prep	
885-2834-4	BES24-18, 18'	Total/NA	Solid	300_Prep	
MB 885-3312/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-3312/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-2834-4 MS	BES24-18, 18'	Total/NA	Solid	300_Prep	
885-2834-4 MSD	BES24-18, 18'	Total/NA	Solid	300_Prep	

# Analysis Batch: 3323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2834-1	BES24-17, 18'	Total/NA	Solid	300.0	3312
885-2834-2	BES24-16, 17'	Total/NA	Solid	300.0	3312
885-2834-3	BES24-20, 18'	Total/NA	Solid	300.0	3312
885-2834-4	BES24-18, 18'	Total/NA	Solid	300.0	3312
MB 885-3312/1-A	Method Blank	Total/NA	Solid	300.0	3312
MB 885-3323/4	Method Blank	Total/NA	Solid	300.0	
LCS 885-3312/2-A	Lab Control Sample	Total/NA	Solid	300.0	3312
MRL 885-3323/3	Lab Control Sample	Total/NA	Solid	300.0	
885-2834-4 MS	BES24-18, 18'	Total/NA	Solid	300.0	3312
885-2834-4 MSD	BES24-18, 18'	Total/NA	Solid	300.0	3312

Job ID: 885-2834-1

Project/Site: Crow Flats Fed Com 1

Date Collected: 04/11/24 13:10

Date Received: 04/13/24 08:05

Client Sample ID: BES24-17, 18'

Batch

Туре

Prep

Prep

Prep

Prep

Analysis

Analysis

Analysis

Analysis

Batch

5035

8015D

5035

8021B

SHAKE

8015D

300.0

300 Prep

Method

**Client: Vertex** 

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Batch

3274 JP

3341 JP

3274 JP

3342 JP

3301 JU

3332 JU

3312 KB

3323 RC

Number Analyst

Lab

EET ALB

Dilution

Run

Factor

1

1

1

20

Job ID: 885-2834-1

# Lab Sample ID: 885-2834-1

Prepared

or Analyzed

04/15/24 10:29

04/15/24 12:44

04/15/24 10:29

04/15/24 12:44

04/15/24 13:24

04/15/24 18:27

04/15/24 15:17

04/15/24 21:55

Lab Sample ID: 885-2834-2

Lab Sample ID: 885-2834-3

Lab Sample ID: 885-2834-4

Matrix: Solid

Matrix: Solid

Matrix: Solid

# Client Sample ID: BES24-16, 17'

Date Collected: 04/11/24 13:15 Date Received: 04/13/24 08:05

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			3274	JP	EET ALB	04/15/24 10:29
Total/NA	Analysis	8015D		1	3341	JP	EET ALB	04/15/24 13:08
Total/NA	Prep	5035			3274	JP	EET ALB	04/15/24 10:29
Total/NA	Analysis	8021B		1	3342	JP	EET ALB	04/15/24 13:08
Total/NA	Prep	SHAKE			3301	JU	EET ALB	04/15/24 13:24
Total/NA	Analysis	8015D		1	3332	JU	EET ALB	04/15/24 18:39
Total/NA	Prep	300_Prep			3312	KB	EET ALB	04/15/24 15:17
Total/NA	Analysis	300.0		20	3323	RC	EET ALB	04/15/24 22:08

# Client Sample ID: BES24-20, 18'

#### Date Collected: 04/11/24 13:20 Date Received: 04/13/24 08:05

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			3274	JP	EET ALB	04/15/24 10:29
Total/NA	Analysis	8015D		1	3341	JP	EET ALB	04/15/24 13:31
Total/NA	Prep	5035			3274	JP	EET ALB	04/15/24 10:29
Total/NA	Analysis	8021B		1	3342	JP	EET ALB	04/15/24 13:31
Total/NA	Prep	SHAKE			3301	JU	EET ALB	04/15/24 13:24
Total/NA	Analysis	8015D		1	3332	JU	EET ALB	04/15/24 18:52
Total/NA	Prep	300_Prep			3312	KB	EET ALB	04/15/24 15:17
Total/NA	Analysis	300.0		20	3323	RC	EET ALB	04/15/24 22:46

# Client Sample ID: BES24-18, 18' Date Collected: 04/11/24 13:25 Date Received: 04/13/24 08:05

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			3274	JP	EET ALB	04/15/24 10:29
Total/NA	Analysis	8015D		1	3341	JP	EET ALB	04/15/24 13:55

Eurofins Albuquerque

Released to Imaging: 7/9/2024 2:25:28 PM

Matrix: Solid

Job ID: 885-2834-1

# **Client: Vertex** Project/Site: Crow Flats Fed Com 1

# Client Sample ID: BES24-18, 18' Date Collected: 04/11/24 13:25 Date Received: 04/13/24 08:05

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			3274	JP	EET ALB	04/15/24 10:29
Total/NA	Analysis	8021B		1	3342	JP	EET ALB	04/15/24 13:55
Total/NA	Prep	SHAKE			3301	JU	EET ALB	04/15/24 13:24
Total/NA	Analysis	8015D		1	3332	JU	EET ALB	04/15/24 19:04
Total/NA	Prep	300_Prep			3312	KB	EET ALB	04/15/24 15:17
Total/NA	Analysis	300.0		20	3323	RC	EET ALB	04/15/24 22:59

## Laboratory References:

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

**Eurofins Albuquerque** 

Page 295 of 341 Lab Sample ID: 885-2834-4 Matrix: Solid

# **Accreditation/Certification Summary**

Client: Vertex Project/Site: Crow Flats Fed Com 1

Laboratory: Eurofins Albuquerque

uthority	Program	Identification Number	Expiration Date	
regon	NELAP	NM100001	02-26-25	

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Job ID: 885-2834-1

**Eurofins Albuquerque** 

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11

# Login Sample Receipt Checklist

Client: Vertex

## Login Number: 2834 List Number: 1 Creator: Rojas, Juan

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	

List Source: Eurofins Albuquerque

Job Number: 885-2834-1

Received by OCD: 7/9/2024 1:19:06 PM



**Environment Testing** 

# **ANALYTICAL REPORT**

# **PREPARED FOR**

Attn: Chance Dixon Vertex 3101 Boyd Dr Carlsbad, New Mexico 88220 Generated 4/18/2024 10:30:41 PM

# **JOB DESCRIPTION**

Crow Flats Fed Com 1

# **JOB NUMBER**

885-2892-1

**Eurofins Albuquerque** 4901 Hawkins NE Albuquerque NM 87109

See page two for job notos and contact information.

# **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

Authorized for release by

(505)345-3975

Andy Freeman, Business Unit Manager andy.freeman@et.eurofinsus.com

Generated 4/18/2024 10:30:41 PM

**Released to Imaging:** 7/9/2024 2:25:28 PM

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Presumptive

Quality Control

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin)

Too Numerous To Count

Reporting Limit or Requested Limit (Radiochemistry)

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

QC

RER

RL RPD

TEF

TEQ TNTC

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Project/Site.	Crow Flats Fed Com T	_
Glossary		3
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	Α
%R	Percent Recovery	
CFL	Contains Free Liquid	5
CFU	Colony Forming Unit	J
CNF	Contains No Free Liquid	6
DER	Duplicate Error Ratio (normalized absolute difference)	0
Dil Fac	Dilution Factor	-7
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)	8
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	9
LOQ	Limit of Quantitation (DoD/DOE)	
MCL	EPA recommended "Maximum Contaminant Level"	10
MDA	Minimum Detectable Activity (Radiochemistry)	
MDC	Minimum Detectable Concentration (Radiochemistry)	11
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	

# **Case Narrative**

Job ID: 885-2892-1

Client: Vertex Project: Crow Flats Fed Com 1

## **Eurofins Albuquerque**

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#### Job Narrative 885-2892-1

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample 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 4/16/2024 7:55 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 1.7°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**

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.

4/18/2024

# **Client Sample Results**

Client: Vertex Project/Site: Crow Flats Fed Com 1

# Client Sample ID: BES24-21, 17' Date Collected: 04/12/24 11:35 Date Received: 04/16/24 07:55

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		04/16/24 15:31	04/17/24 11:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		15 - 244			04/16/24 15:31	04/17/24 11:51	1
Method: SW846 8021B - Volat	ile Organic	Compoun	ds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		04/16/24 15:31	04/17/24 11:51	1
Ethylbenzene	ND		0.050	mg/Kg		04/16/24 15:31	04/17/24 11:51	1
Toluene	ND		0.050	mg/Kg		04/16/24 15:31	04/17/24 11:51	1
Xylenes, Total	ND		0.10	mg/Kg		04/16/24 15:31	04/17/24 11:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		39 - 146			04/16/24 15:31	04/17/24 11:51	1
Method: SW846 8015D - Diese	el Range Or	ganics (DF	RO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	12		9.2	mg/Kg		04/17/24 11:31	04/17/24 17:05	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		04/17/24 11:31	04/17/24 17:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	94		62 - 134			04/17/24 11:31	04/17/24 17:05	1
Method: EPA 300.0 - Anions, I	lon Chroma	tography						
Method: EPA 300.0 - Anions, I Analyte		tography Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

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Job ID: 885-2892-1

# Lab Sample ID: 885-2892-1 Matrix: Solid

Released to Imaging: 7/9/2024 2:25:28 PM

# **Client Sample Results**

Client: Vertex Project/Site: Crow Flats Fed Com 1

# Client Sample ID: BES24-22, 17' Date Collected: 04/12/24 11:40 Date Received: 04/16/24 07:55

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		04/16/24 15:31	04/17/24 12:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		15 - 244			04/16/24 15:31	04/17/24 12:15	1
Method: SW846 8021B - Volat	ile Organic	Compoun	ds (GC)					
Analyte	-	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/16/24 15:31	04/17/24 12:15	1
Ethylbenzene	ND		0.048	mg/Kg		04/16/24 15:31	04/17/24 12:15	1
Toluene	ND		0.048	mg/Kg		04/16/24 15:31	04/17/24 12:15	1
Xylenes, Total	ND		0.096	mg/Kg		04/16/24 15:31	04/17/24 12:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		39 - 146			04/16/24 15:31	04/17/24 12:15	1
Method: SW846 8015D - Diese	el Range Or	ganics (DF	RO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.0	mg/Kg		04/17/24 11:31	04/17/24 17:18	1
Motor Oil Range Organics [C28-C40]	ND		45	mg/Kg		04/17/24 11:31	04/17/24 17:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	89		62 - 134			04/17/24 11:31	04/17/24 17:18	1
Method: EPA 300.0 - Anions, I	on Chroma	tography						
Analyte		Qualifier	RI	Unit	р	Prepared	Analyzed	Dil Fac

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	280	60	mg/Kg	(	04/17/24 15:19	04/17/24 20:05	20

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# Lab Sample ID: 885-2892-2 Matrix: Solid

**Eurofins Albuquerque** 

# **Client Sample Results**

Job ID: 885-2892-1

Matrix: Solid

5

Client: Vertex Project/Site: Crow Flats Fed Com 1

# Client Sample ID: BES24-23, 16' Date Collected: 04/12/24 14:00 Date Received: 04/16/24 07:55

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	18		4.8	mg/Kg		04/16/24 15:31	04/17/24 12:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	221		15 - 244			04/16/24 15:31	04/17/24 12:39	1
Method: SW846 8021B - Volati	le Organic	Compound	ds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/16/24 15:31	04/17/24 12:39	1
Ethylbenzene	0.055		0.048	mg/Kg		04/16/24 15:31	04/17/24 12:39	1
Toluene	ND		0.048	mg/Kg		04/16/24 15:31	04/17/24 12:39	1
Xylenes, Total	0.35		0.096	mg/Kg		04/16/24 15:31	04/17/24 12:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		39 - 146			04/16/24 15:31	04/17/24 12:39	1
Method: SW846 8015D - Diese	I Range Or	ganics (DF	RO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	32		9.9	mg/Kg		04/17/24 11:31	04/17/24 17:31	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		04/17/24 11:31	04/17/24 17:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	83		62 - 134			04/17/24 11:31	04/17/24 17:31	1
Method: EPA 300.0 - Anions, I	on Chroma	tography						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	490		60	mg/Kg		04/17/24 15:19	04/17/24 20:20	20

## **Eurofins Albuquerque**

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Lab Sample ID: 885-2892-3

Client: Vertex

# **Client Sample Results**

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Job ID: 885-2892-1

Matrix: Solid

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Lab Sample ID: 885-2892-4

# Project/Site: Crow Flats Fed Com 1 Client Sample ID: BES24-24, 16' Date Collected: 04/12/24 14:05

Date Received: 04/16/24 07:55

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	5.3		4.8	mg/Kg		04/16/24 15:31	04/17/24 13:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	143		15 - 244			04/16/24 15:31	04/17/24 13:03	1
Method: SW846 8021B - Volati	ile Organic	Compound	ds (GC)					
Analyte	-	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/16/24 15:31	04/17/24 13:03	1
Ethylbenzene	ND		0.048	mg/Kg		04/16/24 15:31	04/17/24 13:03	1
Toluene	ND		0.048	mg/Kg		04/16/24 15:31	04/17/24 13:03	1
Xylenes, Total	ND		0.095	mg/Kg		04/16/24 15:31	04/17/24 13:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		39 - 146			04/16/24 15:31	04/17/24 13:03	1
Method: SW846 8015D - Diese	I Range Or	ganics (DF	RO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	14		8.6	mg/Kg		04/17/24 11:31	04/17/24 17:44	1
Motor Oil Range Organics [C28-C40]	ND		43	mg/Kg		04/17/24 11:31	04/17/24 17:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	85		62 - 134			04/17/24 11:31	04/17/24 17:44	1
Method: EPA 300.0 - Anions, I	on Chroma	tography						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

**Client: Vertex** 

Project/Site: Crow Flats Fed Com 1

Job ID: 885-2892-1

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

Lab Sample ID: MB 885-3	391/1-A							Clie	ent Sam	ple ID: Me		
Matrix: Solid										Prep Typ		
Analysis Batch: 3497										Prep E	Batch:	: 339′
		MB MB										
Analyte		sult Qualifier			Unit		D	P	repared	Analyze	d	Dil Fa
Gasoline Range Organics [C6 - C	10]	ND	5.0		mg/K	g		04/1	6/24 15:3	1 04/17/24 1	1:27	
		MB MB										
Surrogate	%Reco	very Qualifier	r Limits						repared	Analyze		Dil Fa
4-Bromofluorobenzene (Surr)		111	15 - 244					04/1	6/24 15:3	1 04/17/24 1	1:27	
Lab Sample ID: LCS 885-3	3391/2-A					Cli	ent	t Sai	mple ID:	Lab Cont	rol Sa	ample
Matrix: Solid										Prep Typ		
Analysis Batch: 3497										Prep E		
-			Spike	LCS	LCS					%Rec		
Analyte			Added	Result	Qualifier	Unit		D	%Rec	Limits		
Gasoline Range Organics [C6 - C10]			25.0	27.4		mg/Kg			110	70 - 130		
		LCS										
Surrogate	%Recovery	Qualifier	Limits									
4-Bromofluorobenzene (Surr)	229		15_244									
Lab Sample ID: 885-2892-	-1 MS							Clie	ent Sam	ple ID: BE	S24-2	21, 17
Matrix: Solid										Prep Typ	e: Tot	tal/N
Analysis Batch: 3497										Prep E	Batch:	: 339
	Sample	Sample	Spike	MS	MS					%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit		D	%Rec	Limits		
Gasoline Range Organics [C6 - C10]	ND		24.8	29.3		mg/Kg			118	70 - 130		
	MS	MS										
Surrogate	%Recovery	Qualifier	Limits									
4-Bromofluorobenzene (Surr)	240		15 - 244									
Lab Sample ID: 885-2892-	-1 MSD							Clie	ent Sam	ple ID: BE	S24-2	21, 17
Matrix: Solid										Prep Typ		
Analysis Batch: 3497										Prep E		
	Sample	Sample	Spike	MSD	MSD					%Rec		RP
Analyte		Qualifier	Added	Result	Qualifier	Unit		D	%Rec	Limits	RPD	Lim
Gasoline Range Organics [C6 - C10]	ND		24.8	29.3		mg/Kg			118	70 - 130	0	2
	MSD	MSD										
Surrogate	%Recovery	Qualifier	Limits									
4-Bromofluorobenzene (Surr)	238		15-244									
lethod: 8021B - Volat	ile Organio	c Compou	inds (GC)									
Lab Sample ID: MB 885-3	391/1-4							Clie	ent Sam	ple ID: Me	thod	Blan
Matrix: Solid									Jin Sum	Prep Typ		
Analysis Batch: 3498										Prep E		
Anarysis Daten. 3430		MB MB								i ieh c	aton	
		sult Qualifier			11		-		repared	Analyze	d	Dil Fa
Analyte	Re	Sult Qualitier	· RL		Unit		D		reparen	AUAIV/P		ר ווע

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		QC	Sample	Resi	ults					
lient: Vertex roject/Site: Crow Flats Fed	I Com 1		-					Job ID: 8	885-2	892-1
lethod: 8021B - Volat	tile Organic	Compou	nds (GC)	(Conti	inued)					
Lab Sample ID: MB 885-3 Matrix: Solid	391/1-A						Client Samp	ple ID: Met Prep Type		
Analysis Batch: 3498		MB MB						Prep B		
Analyte		ult Qualifier	RL		Unit	D	D Prepared	Analyze	ed I	Dil Fac
Xylenes, Total		ND	0.10	1	mg/K		04/16/24 15:31			1
	٨	MB MB								
Surrogate	%Recove	ery Qualifier	Limits				Prepared	Analyze		Dil Fac
4-Bromofluorobenzene (Surr)		89	39 - 146				04/16/24 15:31	04/17/24 11	1:27	1
Lab Sample ID: LCS 885-	-3391/3-A					Clier	nt Sample ID:	Lab Cont	rol Sa	anole
Matrix: Solid								Prep Type		
Analysis Batch: 3498								Prep B		
			Spike	LCS	LCS			%Rec		
Analyte			Added	Result	Qualifier	Unit	D %Rec	Limits		
Benzene			1.00	0.825	<u> </u>	mg/Kg	82	70 - 130		
Ethylbenzene			1.00	0.857		mg/Kg	86	70 - 130		
Toluene			1.00	0.840		mg/Kg	84	70 - 130		
m,p-Xylene			2.00	1.74		mg/Kg	87	70 - 130		
o-Xylene			1.00	0.859		mg/Kg	86	70 - 130 70 - 130		
э-хунене			1.00	0.000		my/rxy	00	10-150		
	LCS L	LCS								
Surrogate	%Recovery G	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	92		39 - 146							
Lab Sample ID: 885-2892- Matrix: Solid Analysis Batch: 3498							Client Sam	Prep Type Prep B	e: Tot	al/NA
	Sample S		Spike	-	MS			%Rec		
Analyte	Result C	Jualifier	Added	Result	Qualifier	Unit	D %Rec	Limits		
Benzene	ND		0.964	0.887		mg/Kg	92	70 - 130		
Ethylbenzene	ND		0.964	0.925		mg/Kg	96	70 - 130		
Toluene	ND		0.964	0.911		mg/Kg	95	70 - 130		
m,p-Xylene	ND		1.93	1.86		mg/Kg	96	70 - 130		
o-Xylene	ND		0.964	0.918		mg/Kg	95	70 - 130		
,										
	MS N		· · ·							
Surrogate	%Recovery C	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	91		39 - 146							
Lab Sample ID: 885-2892- Matrix: Solid	-2 MSD						Client Sam	ple ID: BE Prep Type		
Analysis Batch: 3498								Prep B		
······,·······························	Sample S	Sample	Spike	MSD	MSD			%Rec		RPD
Analyte	Result C		Added		Qualifier	Unit	D %Rec	Limits	RPD	Limit
Benzene			0.964	0.856		mg/Kg	$-\frac{2}{89}$ -	70 - 130	4	20
Ethylbenzene	ND		0.964	0.884		mg/Kg	92	70 - 130	4	20
Toluene	ND		0.964	0.864		mg/Kg	90	70 - 130 70 - 130	4 5	20
m,p-Xylene	ND		1.93	1.78		mg/Kg	92	70 - 130	4	20
o-Xylene	ND		0.964	0.869		mg/Kg	90	70 - 130	6	20
	MSD N	ИSD								

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%Recovery Qualifier

86

Surrogate

4-Bromofluorobenzene (Surr)

Limits

39 - 146

Client: Vertex Project/Site: Crow Flats Fed Com 1

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

Lab Sample ID: MB 885-344	1/1 <b>-A</b>									Clie	nt Samp	ole ID: Metho	d Blanl
Matrix: Solid												Prep Type: T	otal/N
Analysis Batch: 3463												Prep Batc	h: 344
		MB	MB										
Analyte	Re	sult	Qualifier		RL		Unit		D	Pr	epared	Analyzed	Dil Fa
Diesel Range Organics [C10-C28]		ND		_	10		mg/K	g	_	04/17	7/24 11:31	04/17/24 16:40	
Motor Oil Range Organics [C28-C40]		ND			50		mg/K	g		04/17	7/24 11:31	04/17/24 16:40	
		ΜВ	MR										
Surrogate			Qualifier	Limi	its					Pr	repared	Analyzed	Dil Fa
Di-n-octyl phthalate (Surr)		97		62 -							•	04/17/24 16:40	
Lab Sample ID: LCS 885-344	41/2 <b>-∆</b>							Cli	ent	San	nole ID [.]	Lab Control	Sampl
Matrix: Solid								•		Juli		Prep Type: T	
Analysis Batch: 3463												Prep Batc	
				Spike		LCS	LCS					%Rec	
Analyte				Added		-	Qualifier	Unit		D	%Rec	Limits	
Diesel Range Organics				50.0		42.2		mg/Kg			84	60 - 135	
[C10-C28]				00.0		12.2		iiig/itg			01		
	LCS	LCS	;										
		<b>^</b>	lifion	1									
Surrogate	%Recovery	Qua	illiner	Limits									
Di-n-octyl phthalate (Surr)	102			62 - 134									
Di-n-octyl phthalate (Surr) Iethod: 300.0 - Anions, Lab Sample ID: MB 885-345 Matrix: Solid	102 Ion Chro			62 - 134						Clie		ble ID: Metho Prep Type: T	otal/N
Di-n-octyl phthalate (Surr) Iethod: 300.0 - Anions, Lab Sample ID: MB 885-345 Matrix: Solid	102 Ion Chrc 9/1-A	oma	atograp	62 - 134						Clie			otal/N
Di-n-octyl phthalate (Surr) Iethod: 300.0 - Anions, Lab Sample ID: MB 885-345 Matrix: Solid Analysis Batch: 3487	102 Ion Chrc 9/1-A	oma MB	atograp	62 - 134	ВІ		linit					Prep Type: T Prep Batc	otal/N/ h: 345
Di-n-octyl phthalate (Surr) Iethod: 300.0 - Anions, Lab Sample ID: MB 885-345 Matrix: Solid Analysis Batch: 3487 Analyte	102 Ion Chrc 9/1-A	oma MB sult	atograp	62 - 134	RL		Unit		D	Pr	repared	Prep Type: T Prep Batc Analyzed	otal/N/ h: 345
Di-n-octyl phthalate (Surr) Method: 300.0 - Anions, Lab Sample ID: MB 885-345 Matrix: Solid Analysis Batch: 3487 Analyte	102 Ion Chrc 9/1-A	oma MB	atograp	62 - 134	<b>RL</b> 1.5		Unit mg/K	9		Pr	repared	Prep Type: T Prep Batc	otal/N/ h: 345
Di-n-octyl phthalate (Surr) <b>lethod: 300.0 - Anions,</b> <b>Lab Sample ID: MB 885-345</b> <b>Matrix: Solid</b> <b>Analysis Batch: 3487</b> <b>Analyte</b> Chloride	102 Ion Chrc 9/1-A 	oma MB sult	atograp	62 - 134				-	<u>D</u>	<b>Pr</b> 04/17	<b>epared</b> 7/24 15:19	Prep Type: T Prep Batc Analyzed	otal/N h: 345 Dil Fa
Di-n-octyl phthalate (Surr) Iethod: 300.0 - Anions, Lab Sample ID: MB 885-345 Matrix: Solid Analysis Batch: 3487 Analyte Chloride Lab Sample ID: LCS 885-34	102 Ion Chrc 9/1-A 	oma MB sult	atograp	62 - 134				-	<u>D</u>	<b>Pr</b> 04/17	repared 7/24 15:19 nple ID:	Prep Type: T Prep Batc Analyzed 04/17/24 19:19	otal/N h: 345 Dil Fa Sampl
Di-n-octyl phthalate (Surr) Iethod: 300.0 - Anions, Lab Sample ID: MB 885-345 Matrix: Solid Analysis Batch: 3487 Analyte Chloride Lab Sample ID: LCS 885-34 Matrix: Solid	102 Ion Chrc 9/1-A 	oma MB sult	atograp	62 - 134				-	<u>D</u>	<b>Pr</b> 04/17	repared 7/24 15:19 nple ID:	Prep Type: T Prep Batc Analyzed 04/17/24 19:19 Lab Control Prep Type: T	otal/N h: 345 Dil Fa Sampl otal/N
Di-n-octyl phthalate (Surr) Aethod: 300.0 - Anions, Lab Sample ID: MB 885-345 Matrix: Solid Analysis Batch: 3487 Analyte Chloride Lab Sample ID: LCS 885-34 Matrix: Solid	102 Ion Chrc 9/1-A 	oma MB sult	аtograp	62 - 134 •hy		LCS		-	<u>D</u>	<b>Pr</b> 04/17	repared 7/24 15:19 nple ID:	Prep Type: T Prep Batc Analyzed 04/17/24 19:19 Lab Control	otal/N/ h: 345 Dil Fa Sample otal/N/
Surrogate Di-n-octyl phthalate (Surr) Aethod: 300.0 - Anions, Lab Sample ID: MB 885-345 Matrix: Solid Analysis Batch: 3487 Analyte Chloride Lab Sample ID: LCS 885-34 Matrix: Solid Analysis Batch: 3487 Analysis Batch: 3487 Analyte	102 Ion Chrc 9/1-A 	oma MB sult	аtograp	62 - 134		-	mg/K	-	<u>D</u>	<b>Pr</b> 04/17	repared 7/24 15:19 nple ID:	Prep Type: T Prep Batc Analyzed 04/17/24 19:19 Lab Control Prep Type: T Prep Batc	otal/N/ h: 3459 Dil Fa Sample otal/N/
Di-n-octyl phthalate (Surr) Iethod: 300.0 - Anions, Lab Sample ID: MB 885-345 Matrix: Solid Analysis Batch: 3487 Analyte Chloride Lab Sample ID: LCS 885-34 Matrix: Solid Analysis Batch: 3487 Analyte	102 Ion Chrc 9/1-A 	oma MB sult	аtograp	62 - 134 hy Spike		-	mg/K	Cli	<u>D</u>	Pr 04/17	repared 7/24 15:19 nple ID:	Prep Type: T Prep Batc <u>Analyzed</u> 04/17/24 19:19 Lab Control Prep Type: T Prep Batc %Rec	otal/N/ h: 345 Dil Fa Sample otal/N/
Di-n-octyl phthalate (Surr) lethod: 300.0 - Anions, Lab Sample ID: MB 885-345 Matrix: Solid Analysis Batch: 3487 Analyte Chloride Lab Sample ID: LCS 885-34 Matrix: Solid Analysis Batch: 3487 Analyte Chloride	102 Ion Chrc 9/1-A 	oma MB sult	аtograp	62 - 134 hy Spike Added		Result	mg/K	Clic	D_ ent	Pr 04/17 San	repared 7/24 15:19 nple ID: <u>%Rec</u> 92	Prep Type: T Prep Batc <u>Analyzed</u> 04/17/24 19:19 Lab Control Prep Type: T <u>Prep Batc</u> %Rec Limits 90 - 110	otal/N. h: 345 
Di-n-octyl phthalate (Surr) Iethod: 300.0 - Anions, Lab Sample ID: MB 885-345 Matrix: Solid Analysis Batch: 3487 Analyte Chloride Lab Sample ID: LCS 885-34 Matrix: Solid Analysis Batch: 3487 Analyte Chloride Lab Sample ID: MB 885-348	102 Ion Chrc 9/1-A 	oma MB sult	аtograp	62 - 134 hy Spike Added		Result	mg/K	Clic	D_ ent	Pr 04/17 San	repared 7/24 15:19 nple ID: <u>%Rec</u> 92 nt Samp	Prep Type: T Prep Batc 04/17/24 19:19 Lab Control Prep Type: T Prep Batc %Rec Limits 90 - 110	otal/N. h: 345 
Di-n-octyl phthalate (Surr) Method: 300.0 - Anions, Lab Sample ID: MB 885-345 Matrix: Solid Analysis Batch: 3487 Analyte Chloride Lab Sample ID: LCS 885-344 Matrix: Solid Analysis Batch: 3487 Analyte Chloride Lab Sample ID: MB 885-348 Matrix: Solid	102 Ion Chrc 9/1-A 	oma MB sult	аtograp	62 - 134 hy Spike Added		Result	mg/K	Clic	D_ ent	Pr 04/17 San	repared 7/24 15:19 nple ID: <u>%Rec</u> 92 nt Samp	Prep Type: T Prep Batc <u>Analyzed</u> 04/17/24 19:19 Lab Control Prep Type: T <u>Prep Batc</u> %Rec Limits 90 - 110	otal/N/ h: 345 
Di-n-octyl phthalate (Surr) Method: 300.0 - Anions, Lab Sample ID: MB 885-345 Matrix: Solid Analysis Batch: 3487 Analyte Chloride Lab Sample ID: LCS 885-344 Matrix: Solid Analysis Batch: 3487 Analyte Chloride Lab Sample ID: MB 885-348 Matrix: Solid	102 Ion Chrc 9/1-A  59/2-A	oma MB sult	MB Qualifier	62 - 134 hy Spike Added		Result	mg/K	Clic	D_ ent	Pr 04/17 San	repared 7/24 15:19 nple ID: <u>%Rec</u> 92 nt Samp	Prep Type: T Prep Batc 04/17/24 19:19 Lab Control Prep Type: T Prep Batc %Rec Limits 90 - 110	otal/N/ h: 345 Dil Fa Sample otal/N/ h: 345 d Blan
Di-n-octyl phthalate (Surr) Aethod: 300.0 - Anions, Lab Sample ID: MB 885-345 Matrix: Solid Analysis Batch: 3487 Analyte Chloride Lab Sample ID: LCS 885-345 Matrix: Solid Analysis Batch: 3487	102 Ion Chrc 9/1-A  59/2-A 7/4	MB sult ND	MB Qualifier	62 - 134 hy Spike Added		Result	mg/K	Clic	D_ ent	Pr 04/17 : San  Clie	repared 7/24 15:19 nple ID: <u>%Rec</u> 92 nt Samp	Prep Type: T Prep Batc 04/17/24 19:19 Lab Control Prep Type: T Prep Batc %Rec Limits 90 - 110	otal/N/ h: 3459 

# Lab Sample ID: MRL 885-3487/3 Matrix: Solid Analysis Batch: 3487

-	Spike	MRL	MRL				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	0.500	0.530		mg/L		106	50 - 150	 

5 6 7

Job ID: 885-2892-1

Eurofins Albuquerque

Prep Type: Total/NA

**Client Sample ID: Lab Control Sample** 

# **QC Association Summary**

Client: Vertex Project/Site: Crow Flats Fed Com 1

# Prep Batch: 3391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2892-1	BES24-21, 17'	Total/NA	Solid	5030C	
885-2892-2	BES24-22, 17'	Total/NA	Solid	5030C	
885-2892-3	BES24-23, 16'	Total/NA	Solid	5030C	
885-2892-4	BES24-24, 16'	Total/NA	Solid	5030C	
MB 885-3391/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-3391/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-3391/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-2892-1 MS	BES24-21, 17'	Total/NA	Solid	5030C	
885-2892-1 MSD	BES24-21, 17'	Total/NA	Solid	5030C	
885-2892-2 MS	BES24-22, 17'	Total/NA	Solid	5030C	
885-2892-2 MSD	BES24-22, 17'	Total/NA	Solid	5030C	

# Analysis Batch: 3497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2892-1	BES24-21, 17'	Total/NA	Solid	8015D	3391
885-2892-2	BES24-22, 17'	Total/NA	Solid	8015D	3391
885-2892-3	BES24-23, 16'	Total/NA	Solid	8015D	3391
885-2892-4	BES24-24, 16'	Total/NA	Solid	8015D	3391
MB 885-3391/1-A	Method Blank	Total/NA	Solid	8015D	3391
LCS 885-3391/2-A	Lab Control Sample	Total/NA	Solid	8015D	3391
885-2892-1 MS	BES24-21, 17'	Total/NA	Solid	8015D	3391
885-2892-1 MSD	BES24-21, 17'	Total/NA	Solid	8015D	3391

# **Analysis Batch: 3498**

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
885-2892-1	BES24-21, 17'	Total/NA	Solid	8021B	3391
885-2892-2	BES24-22, 17'	Total/NA	Solid	8021B	3391
885-2892-3	BES24-23, 16'	Total/NA	Solid	8021B	3391
885-2892-4	BES24-24, 16'	Total/NA	Solid	8021B	3391
MB 885-3391/1-A	Method Blank	Total/NA	Solid	8021B	3391
LCS 885-3391/3-A	Lab Control Sample	Total/NA	Solid	8021B	3391
885-2892-2 MS	BES24-22, 17'	Total/NA	Solid	8021B	3391
885-2892-2 MSD	BES24-22, 17'	Total/NA	Solid	8021B	3391

# GC Semi VOA

# Prep Batch: 3441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2892-1	BES24-21, 17'	Total/NA	Solid	SHAKE	
885-2892-2	BES24-22, 17'	Total/NA	Solid	SHAKE	
885-2892-3	BES24-23, 16'	Total/NA	Solid	SHAKE	
885-2892-4	BES24-24, 16'	Total/NA	Solid	SHAKE	
MB 885-3441/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-3441/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

# Analysis Batch: 3463

Lab Sample ID 885-2892-1	Client Sample ID BES24-21, 17'	Prep Type Total/NA	Matrix Solid	Method	Prep Batch 3441
885-2892-2	BES24-22, 17'	Total/NA	Solid	8015D	3441
885-2892-3	BES24-23, 16'	Total/NA	Solid	8015D	3441
885-2892-4	BES24-24, 16'	Total/NA	Solid	8015D	3441

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Job ID: 885-2892-1

# **QC Association Summary**

Client: Vertex Project/Site: Crow Flats Fed Com 1

# GC Semi VOA (Continued)

# Analysis Batch: 3463 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-3441/1-A	Method Blank	Total/NA	Solid	8015D	3441
LCS 885-3441/2-A	Lab Control Sample	Total/NA	Solid	8015D	3441

# HPLC/IC

## Prep Batch: 3459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2892-1	BES24-21, 17'	Total/NA	Solid	300_Prep	
885-2892-2	BES24-22, 17'	Total/NA	Solid	300_Prep	
885-2892-3	BES24-23, 16'	Total/NA	Solid	300_Prep	
885-2892-4	BES24-24, 16'	Total/NA	Solid	300_Prep	
MB 885-3459/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-3459/2-A	Lab Control Sample	Total/NA	Solid	300 Prep	

# Analysis Batch: 3487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2892-1	BES24-21, 17'	Total/NA	Solid	300.0	3459
885-2892-2	BES24-22, 17'	Total/NA	Solid	300.0	3459
885-2892-3	BES24-23, 16'	Total/NA	Solid	300.0	3459
885-2892-4	BES24-24, 16'	Total/NA	Solid	300.0	3459
MB 885-3459/1-A	Method Blank	Total/NA	Solid	300.0	3459
MB 885-3487/4	Method Blank	Total/NA	Solid	300.0	
LCS 885-3459/2-A	Lab Control Sample	Total/NA	Solid	300.0	3459
MRL 885-3487/3	Lab Control Sample	Total/NA	Solid	300.0	

Job ID: 885-2892-1

**Eurofins Albuquerque** 

Released to Imaging: 7/9/2024 2:25:28 PM

Job ID: 885-2892-1

# Lab Sample ID: 885-2892-1

Matrix: Solid

# Lab Sample ID: 885-2892-2

Lab Sample ID: 885-2892-3

Lab Sample ID: 885-2892-4

Matrix: Solid

Matrix: Solid

Client: Vertex Project/Site: Crow Flats Fed Com 1

# Client Sample ID: BES24-21, 17' Date Collected: 04/12/24 11:35 Date Received: 04/16/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Prep Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3391	JP	EET ALB	04/16/24 15:31
Total/NA	Analysis	8015D		1	3497	JP	EET ALB	04/17/24 11:51
Total/NA	Prep	5030C			3391	JP	EET ALB	04/16/24 15:31
Total/NA	Analysis	8021B		1	3498	JP	EET ALB	04/17/24 11:51
Total/NA	Prep	SHAKE			3441	JU	EET ALB	04/17/24 11:31
Total/NA	Analysis	8015D		1	3463	JU	EET ALB	04/17/24 17:05
Total/NA	Prep	300_Prep			3459	RC	EET ALB	04/17/24 15:19
Total/NA	Analysis	300.0		20	3487	JT	EET ALB	04/17/24 19:49

# Client Sample ID: BES24-22, 17'

Date Collected: 04/12/24 11:40 Date Received: 04/16/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3391	JP	EET ALB	04/16/24 15:31
Total/NA	Analysis	8015D		1	3497	JP	EET ALB	04/17/24 12:15
Total/NA	Prep	5030C			3391	JP	EET ALB	04/16/24 15:31
Total/NA	Analysis	8021B		1	3498	JP	EET ALB	04/17/24 12:15
Total/NA	Prep	SHAKE			3441	JU	EET ALB	04/17/24 11:31
Total/NA	Analysis	8015D		1	3463	JU	EET ALB	04/17/24 17:18
Total/NA	Prep	300_Prep			3459	RC	EET ALB	04/17/24 15:19
Total/NA	Analysis	300.0		20	3487	JT	EET ALB	04/17/24 20:05

# Client Sample ID: BES24-23, 16'

## Date Collected: 04/12/24 14:00 Date Received: 04/16/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3391	JP	EET ALB	04/16/24 15:31
Total/NA	Analysis	8015D		1	3497	JP	EET ALB	04/17/24 12:39
Total/NA	Prep	5030C			3391	JP	EET ALB	04/16/24 15:31
Total/NA	Analysis	8021B		1	3498	JP	EET ALB	04/17/24 12:39
Total/NA	Prep	SHAKE			3441	JU	EET ALB	04/17/24 11:31
Total/NA	Analysis	8015D		1	3463	JU	EET ALB	04/17/24 17:31
Total/NA	Prep	300_Prep			3459	RC	EET ALB	04/17/24 15:19
Total/NA	Analysis	300.0		20	3487	JT	EET ALB	04/17/24 20:20

# Client Sample ID: BES24-24, 16' Date Collected: 04/12/24 14:05 Date Received: 04/16/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3391	JP	EET ALB	04/16/24 15:31
Total/NA	Analysis	8015D		1	3497	JP	EET ALB	04/17/24 13:03

**Eurofins Albuquerque** 

Matrix: Solid

Project/Site: Crow Flats Fed Com 1

Date Collected: 04/12/24 14:05

Client Sample ID: BES24-24, 16'

**Client: Vertex** 

Job ID: 885-2892-1

# Lab Sample ID: 885-2892-4

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3391	JP	EET ALB	04/16/24 15:31
Total/NA	Analysis	8021B		1	3498	JP	EET ALB	04/17/24 13:03
Total/NA	Prep	SHAKE			3441	JU	EET ALB	04/17/24 11:31
Total/NA	Analysis	8015D		1	3463	JU	EET ALB	04/17/24 17:44
Total/NA	Prep	300_Prep			3459	RC	EET ALB	04/17/24 15:19
Total/NA	Analysis	300.0		20	3487	JT	EET ALB	04/17/24 20:35

### Laboratory References:

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

Matrix: Solid

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**Eurofins Albuquerque** 

# Accredit

Client: Vertex Project/Site: Crow Flats Fed Com 1

Laboratory: Eurofins Albuquerque The accreditations/certifications listed below are applicable to

Authority Program Oregon NELAP

.

		<b>Page 315 of 3</b>	41
itation/Certification Summary			1
		Job ID: 885-2892-1	2
to this report.			3
Identification Number	Expiration Date	_	4
NM100001	02-26-25		5
			6
			7
			8
			9

Chain-of-Custody Record	Turn-Around Time:								
Client: Vertex (EDG)	Standard	K Rush 2-0010			L FIN	ANAL YSTS LABORATOD	30RA		۲×
					allenviro	www.hallenvironmental.com			ź
Mailing Address' UN FU	1	lats Fed Com 1	4901 H	awkins NE	- Albuc	4901 Hawkins NE - Albuquerque, NM 87109	M 87109		
	Project #:		Tel. 50	505-345-3975	5 Fax	Fax 505-345-4107	-4107		
Phone #:	}	22800			۱nal	Analysis Request		7207-000	
email or Fax#:	Project Manager:				<b>*</b> 0	(ĵn			
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			ОЯ		[°] bd	/,tue			
Accreditation:	Sampler: H W			(1.40 728 10					_
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	Cooler Temp(induding cr);	ce): トートもしに 17 (°C)	)पहा	y 83	<u>ا</u> د, ۱	·imə			
	Container Prese	Preservative HEAL No.	.08:H	d sH	8 AA:	V) 08 2) 07 2) 05			
c Sample Name	Type and #			Я٩	C1-	728			
4/12/24/11:35/8011 BES24-21, 1	Di HOZION IL	٩	XX		$\succ$				
11:40    BES24-22,1									
M:00     BES 2H-23'	1 n 1								
V 14:05 V BES24-24,1									
									-
Date: Time Relinquished by //	Received by Via	ul Date Time	Remarks: pullin find results to	rung	C Mes	nults	: P		
Date Time Relinquished by	Received by Via	ľ	idiv on @ rontex.	としく	t F F C	5.7			
applied and wanter a	12 MAT	-Sithappile in the	numbhe		@ renter	x - C	)		
ry, sa	iy be subcontracted to other accredited	I laboratories This serves as notice of this	possibility Any su	b-contracted d	ata will be cle	early notated or	hthe analytical	report.	

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Turn-Around Time:

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10

Job Number: 885-2892-1

List Source: Eurofins Albuquerque

# Login Sample Receipt Checklist

Client: Vertex

## Login Number: 2892 List Number: 1 Creator: Dominguez, Desiree

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	



April 18, 2024

CHANCE DIXON VERTEX RESOURCE GROUP 420 SOUTH MAIN, SUITE 202 TULSA, OK 74103

RE: CROW FLATS FED COM 1

Enclosed are the results of analyses for samples received by the laboratory on 04/16/24 15:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab_accred_certif.html">www.tceq.texas.gov/field/ga/lab_accred_certif.html</a>.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



### Analytical Results For:

VERTEX RESOURCE GROUP CHANCE DIXON 420 SOUTH MAIN, SUITE 202 TULSA OK, 74103 Fax To: NA

Received:	04/16/2024	Sampling Date:	04/15/2024
Reported:	04/18/2024	Sampling Type:	Soil
Project Name:	CROW FLATS FED COM 1	Sampling Condition:	Cool & Intact
Project Number:	23E - 05855	Sample Received By:	Tamara Oldaker
Project Location:	EOG		

### Sample ID: BES 24 - 02 , 18' (H241993-01)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/17/2024	ND	2.18	109	2.00	1.49	
Toluene*	<0.050	0.050	04/17/2024	ND	2.11	105	2.00	1.23	
Ethylbenzene*	<0.050	0.050	04/17/2024	ND	2.05	102	2.00	1.28	
Total Xylenes*	0.313	0.150	04/17/2024	ND	6.00	100	6.00	1.20	
Total BTEX	0.313	0.300	04/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.8	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	04/17/2024	ND	448	112	400	3.51	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/17/2024	ND	201	101	200	1.84	
DRO >C10-C28*	<10.0	10.0	04/17/2024	ND	198	98.9	200	2.16	
EXT DRO >C28-C36	<10.0	10.0	04/17/2024	ND					
Surrogate: 1-Chlorooctane	72.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	67.1	% 49.1-14	8						

#### Cardinal Laboratories

#### *=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

VERTEX RESOURCE GROUP CHANCE DIXON 420 SOUTH MAIN, SUITE 202 TULSA OK, 74103 Fax To: NA

Received:	04/16/2024	Sampling Date:	04/15/2024
Reported:	04/18/2024	Sampling Type:	Soil
Project Name:	CROW FLATS FED COM 1	Sampling Condition:	Cool & Intact
Project Number:	23E - 05855	Sample Received By:	Tamara Oldaker
Project Location:	EOG		

#### Sample ID: BES 24 - 15 , 18' (H241993-02)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/17/2024	ND	2.18	109	2.00	1.49	
Toluene*	0.056	0.050	04/17/2024	ND	2.11	105	2.00	1.23	
Ethylbenzene*	0.176	0.050	04/17/2024	ND	2.05	102	2.00	1.28	
Total Xylenes*	0.838	0.150	04/17/2024	ND	6.00	100	6.00	1.20	
Total BTEX	1.07	0.300	04/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.4	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	04/17/2024	ND	448	112	400	3.51	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/17/2024	ND	201	101	200	1.84	
DRO >C10-C28*	<10.0	10.0	04/17/2024	ND	198	98.9	200	2.16	
EXT DRO >C28-C36	<10.0	10.0	04/17/2024	ND					
Surrogate: 1-Chlorooctane	70.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	66.5	% 49.1-14	8						

#### Cardinal Laboratories

#### *=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

VERTEX RESOURCE GROUP CHANCE DIXON 420 SOUTH MAIN, SUITE 202 TULSA OK, 74103 Fax To: NA

Received:	04/16/2024	Sampling Date:	04/15/2024
Reported:	04/18/2024	Sampling Type:	Soil
Project Name:	CROW FLATS FED COM 1	Sampling Condition:	Cool & Intact
Project Number:	23E - 05855	Sample Received By:	Tamara Oldaker
Project Location:	EOG		

#### Sample ID: WES 24 - 01, 0-7' (H241993-03)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/17/2024	ND	2.18	109	2.00	1.49	
Toluene*	<0.050	0.050	04/17/2024	ND	2.11	105	2.00	1.23	
Ethylbenzene*	<0.050	0.050	04/17/2024	ND	2.05	102	2.00	1.28	
Total Xylenes*	<0.150	0.150	04/17/2024	ND	6.00	100	6.00	1.20	
Total BTEX	<0.300	0.300	04/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.8	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	04/17/2024	ND	448	112	400	3.51	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/17/2024	ND	193	96.6	200	1.14	
DRO >C10-C28*	22.1	10.0	04/17/2024	ND	180	90.1	200	0.662	
EXT DRO >C28-C36	<10.0	10.0	04/17/2024	ND					
Surrogate: 1-Chlorooctane	80.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.1	% 49.1-14	8						

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#### *=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

VERTEX RESOURCE GROUP CHANCE DIXON 420 SOUTH MAIN, SUITE 202 TULSA OK, 74103 Fax To: NA

Received:	04/16/2024	Sampling Date:	04/15/2024
Reported:	04/18/2024	Sampling Type:	Soil
Project Name:	CROW FLATS FED COM 1	Sampling Condition:	Cool & Intact
Project Number:	23E - 05855	Sample Received By:	Tamara Oldaker
Project Location:	EOG		

#### Sample ID: WES 24 - 01, 8-17' (H241993-04)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/17/2024	ND	2.18	109	2.00	1.49	
Toluene*	0.081	0.050	04/17/2024	ND	2.11	105	2.00	1.23	
Ethylbenzene*	0.060	0.050	04/17/2024	ND	2.05	102	2.00	1.28	
Total Xylenes*	0.530	0.150	04/17/2024	ND	6.00	100	6.00	1.20	
Total BTEX	0.670	0.300	04/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	04/18/2024	ND	432	108	400	7.14	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/17/2024	ND	193	96.6	200	1.14	
DRO >C10-C28*	<10.0	10.0	04/17/2024	ND	180	90.1	200	0.662	
EXT DRO >C28-C36	<10.0	10.0	04/17/2024	ND					
Surrogate: 1-Chlorooctane	48.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	53.3	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

VERTEX RESOURCE GROUP CHANCE DIXON 420 SOUTH MAIN, SUITE 202 TULSA OK, 74103 Fax To: NA

Received:	04/16/2024	Sampling Date:	04/15/2024
Reported:	04/18/2024	Sampling Type:	Soil
Project Name:	CROW FLATS FED COM 1	Sampling Condition:	Cool & Intact
Project Number:	23E - 05855	Sample Received By:	Tamara Oldaker
Project Location:	EOG		

#### Sample ID: WES 24 - 06 , 0-7' (H241993-05)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/17/2024	ND	2.18	109	2.00	1.49	
Toluene*	<0.050	0.050	04/17/2024	ND	2.11	105	2.00	1.23	
Ethylbenzene*	<0.050	0.050	04/17/2024	ND	2.05	102	2.00	1.28	
Total Xylenes*	<0.150	0.150	04/17/2024	ND	6.00	100	6.00	1.20	
Total BTEX	<0.300	0.300	04/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.0	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	04/18/2024	ND	432	108	400	7.14	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/17/2024	ND	193	96.6	200	1.14	
DRO >C10-C28*	<10.0	10.0	04/17/2024	ND	180	90.1	200	0.662	
EXT DRO >C28-C36	<10.0	10.0	04/17/2024	ND					
Surrogate: 1-Chlorooctane	79.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.3	% 49.1-14	8						

#### Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

VERTEX RESOURCE GROUP CHANCE DIXON 420 SOUTH MAIN, SUITE 202 TULSA OK, 74103 Fax To: NA

Received:	04/16/2024	Sampling Date:	04/15/2024
Reported:	04/18/2024	Sampling Type:	Soil
Project Name:	CROW FLATS FED COM 1	Sampling Condition:	Cool & Intact
Project Number:	23E - 05855	Sample Received By:	Tamara Oldaker
Project Location:	EOG		

#### Sample ID: WES 24 - 06 , 8-17' (H241993-06)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/17/2024	ND	2.18	109	2.00	1.49	
Toluene*	<0.050	0.050	04/17/2024	ND	2.11	105	2.00	1.23	
Ethylbenzene*	<0.050	0.050	04/17/2024	ND	2.05	102	2.00	1.28	
Total Xylenes*	<0.150	0.150	04/17/2024	ND	6.00	100	6.00	1.20	
Total BTEX	<0.300	0.300	04/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	<i>93.7</i>	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	04/18/2024	ND	432	108	400	7.14	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/18/2024	ND	193	96.6	200	1.14	
DRO >C10-C28*	<10.0	10.0	04/18/2024	ND	180	90.1	200	0.662	
EXT DRO >C28-C36	<10.0	10.0	04/18/2024	ND					
Surrogate: 1-Chlorooctane	64.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	76.8	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager


## **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

#### Cardinal Laboratories

#### *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and clent's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatscever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including whose of use, or loss of profits incurred by client, its subsidiaries, affiliates or successor arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Í	AMONU HU State: Zip: Fax #: -O53(55 Project Owner: COC NOW FLOATS FECH COMP. Sample I.D. Sample I.D. Sample I.D. -S.24-02, 18' ES.24-01, 0-7' ES.24-01, 0-7' ES.24-01, 8-17' ES.24-01, 8-17' ES.24-01	BILL TO     ANALYSIS REQUEST       P.0. #:     Company: EOC
Company Name: VARAEN	Company Name: VENTEX	
	Project Manager: 7 7	TO ANALYSIS
D TAYAN BILL TO ANALYSIS	INNIXI -	共 ANALISIS
CTXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Address: UN +1 U	Company LTV_
ect Manager: C TX X OM ess: UN FUL Company: FOV-	State:	Party. CCC
Anager: C. TX DM State: Zip: Amplification Contract Cont	Fax #:	NAC JETT
Manager:     Director     BILL TO     ANALYSIS       Un Fill     State:     Zip:     Company: EO(5-     ANALYSIS       Fax #:     AttnChQSe Settle     Image: Company: Eo(5-     Image: Company: Eo(5-	23E-MEder	Address: UN +10
anager:     Directory     BILL TO     ANALYSIS       UN Fill     State:     Zip:     Company: EQG     ANALYSIS       UN Fill     State:     Zip:     AttmChQSe Settle     Image: Company: For the settle       D2E-Nettory     Fax #:     Address:     UN Fill     Image: Company: For the settle	25250	City:
BILL TO     ANALYSIS       Fill     State:     Zip:     Company: EO(5     ANALYSIS       Fax #:     AttnChQSe Settle     Address:     UN Fill       E-05855     Project Owner: EO(5     City:	NOW FLOTS	
er: Chixon BILL TO ANALYSIS Fill State: Zip: Company: EOG Fax #: Zip: AttnChase Settle Fax #: Address: UN Fill Cnow Flat's Fe J Chim 1 com		Zip:
CDrixon BILL TO ANALYSIS Fill State: Zip: Company: EOG Fax #: Zip: AttnChase Settle Fax #: Address: UN File NOW Flats Fed Cum 1 State: Zip: N	Sampler Name: A MOMIN	21
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# 841



May 15, 2024

CHANCE DIXON VERTEX RESOURCE GROUP 420 SOUTH MAIN, SUITE 202 TULSA, OK 74103

RE: CROW FLATS FED COM 1

Enclosed are the results of analyses for samples received by the laboratory on 05/14/24 13:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab_accred_certif.html">www.tceq.texas.gov/field/ga/lab_accred_certif.html</a>.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



## Analytical Results For:

VERTEX RESOURCE GROUP CHANCE DIXON 420 SOUTH MAIN, SUITE 202 TULSA OK, 74103 Fax To: NA

Received:	05/14/2024	Sampling Date:	05/13/2024
Reported:	05/15/2024	Sampling Type:	Soil
Project Name:	CROW FLATS FED COM 1	Sampling Condition:	Cool & Intact
Project Number:	23E - 05855	Sample Received By:	Tamara Oldaker
Project Location:	EOG		

## Sample ID: WES24 -09 0-4' (H242620-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/14/2024	ND	1.90	95.0	2.00	10.5	
Toluene*	<0.050	0.050	05/14/2024	ND	1.89	94.4	2.00	8.94	
Ethylbenzene*	<0.050	0.050	05/14/2024	ND	1.87	93.5	2.00	8.57	
Total Xylenes*	<0.150	0.150	05/14/2024	ND	5.47	91.2	6.00	8.62	
Total BTEX	<0.300	0.300	05/14/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	82.6	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/15/2024	ND	432	108	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2024	ND	187	93.3	200	2.25	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	202	101	200	0.00	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					
Surrogate: 1-Chlorooctane	87.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.1	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

VERTEX RESOURCE GROUP CHANCE DIXON 420 SOUTH MAIN, SUITE 202 TULSA OK, 74103 Fax To: NA

Received:	05/14/2024	Sampling Date:	05/13/2024
Reported:	05/15/2024	Sampling Type:	Soil
Project Name:	CROW FLATS FED COM 1	Sampling Condition:	Cool & Intact
Project Number:	23E - 05855	Sample Received By:	Tamara Oldaker
Project Location:	EOG		

### Sample ID: WES24 -09 4-8' (H242620-02)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/14/2024	ND	1.86	92.8	2.00	8.30	
Toluene*	<0.050	0.050	05/14/2024	ND	1.98	99.2	2.00	6.36	
Ethylbenzene*	<0.050	0.050	05/14/2024	ND	2.01	101	2.00	5.40	
Total Xylenes*	<0.150	0.150	05/14/2024	ND	6.25	104	6.00	5.01	
Total BTEX	<0.300	0.300	05/14/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/15/2024	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2024	ND	186	92.8	200	1.84	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	199	99.6	200	4.76	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					
Surrogate: 1-Chlorooctane	115 %	48.2-13	4						
Surrogate: 1-Chlorooctadecane	122 9	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

VERTEX RESOURCE GROUP CHANCE DIXON 420 SOUTH MAIN, SUITE 202 TULSA OK, 74103 Fax To: NA

Received:	05/14/2024	Sampling Date:	05/13/2024
Reported:	05/15/2024	Sampling Type:	Soil
Project Name:	CROW FLATS FED COM 1	Sampling Condition:	Cool & Intact
Project Number:	23E - 05855	Sample Received By:	Tamara Oldaker
Project Location:	EOG		

### Sample ID: WES24 -09 8-12' (H242620-03)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/14/2024	ND	1.86	92.8	2.00	8.30	
Toluene*	<0.050	0.050	05/14/2024	ND	1.98	99.2	2.00	6.36	
Ethylbenzene*	<0.050	0.050	05/14/2024	ND	2.01	101	2.00	5.40	
Total Xylenes*	<0.150	0.150	05/14/2024	ND	6.25	104	6.00	5.01	
Total BTEX	<0.300	0.300	05/14/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/15/2024	ND	432	108	400	3.64	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2024	ND	186	92.8	200	1.84	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	199	99.6	200	4.76	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					
Surrogate: 1-Chlorooctane	112 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	118 9	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

VERTEX RESOURCE GROUP CHANCE DIXON 420 SOUTH MAIN, SUITE 202 TULSA OK, 74103 Fax To: NA

Received:	05/14/2024	Sampling Date:	05/13/2024
Reported:	05/15/2024	Sampling Type:	Soil
Project Name:	CROW FLATS FED COM 1	Sampling Condition:	Cool & Intact
Project Number:	23E - 05855	Sample Received By:	Tamara Oldaker
Project Location:	EOG		

### Sample ID: WES24 -03 0-6' (H242620-04)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/14/2024	ND	1.86	92.8	2.00	8.30	
Toluene*	<0.050	0.050	05/14/2024	ND	1.98	99.2	2.00	6.36	
Ethylbenzene*	<0.050	0.050	05/14/2024	ND	2.01	101	2.00	5.40	
Total Xylenes*	<0.150	0.150	05/14/2024	ND	6.25	104	6.00	5.01	
Total BTEX	<0.300	0.300	05/14/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/15/2024	ND	432	108	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2024	ND	186	92.8	200	1.84	
DRO >C10-C28*	<10.0	10.0	05/14/2024	ND	199	99.6	200	4.76	
EXT DRO >C28-C36	<10.0	10.0	05/14/2024	ND					
Surrogate: 1-Chlorooctane	92.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.3	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## **Notes and Definitions**

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

#### **Cardinal Laboratories**

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

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P. WCMTX (EOG) P. C. State: ZID: Fax#: ZID: Fax#: ZID: Fax#: ZID: Fax#: ZID: Fax#: ZID: Fax#: ZID: Fax#: Address: ON FUL Fax#: ZID: Fax#: ZID: Fax#: ZID: Phone #: C (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER X SOIL OIL SLUDGE OTHER: ZID: Fax#: ZID: Fax#: ZID: Phone #: ACID/BASE: X SOIL OIL SLUDGE OTHER: X SOIL SLUDGE OTHER: X SOIL SLUDGE SLUDGE SLUDGE SLUDGE SLUDGE SLUDGE SLUDGE SLUDGE SLUDGE SLUDGE SLUDGE SLUDGE SLUDGE SLUDGE SLUDGE SLUDGE SLUDGE SLUDGE SLUDGE SLUDGE SLUDGE SLUDGE SLUDGE SLUDGE SLUDGE SLUDGE SLUDGE SLUDGE SLUDGE SLUDGE SLUDGE SLUDGE SLUDGE SLUDGE SLUDGE SLUDGE SLUDGE SLUDGE SLUDGE SLUDGE SLUDGE SLUDGE SLUDGE SLUDGE SLUDGE SLUDGE SLUDGE SLUDGE SLUDGE SLUDGE SLUDGE SLUDGE SLUDGE SLUDGE SLUDGE SLUDGE SLUDGE SLUDGE SLUDGE SLUDGE SLUDGE SLUDGE SLUDGE SLUDGE	Project Owner:     State:     Zip:     Attm/ Company: EOG       Fax #:     Fax #:     Address:     On pany: EOG       Fax #:     Foject Owner:     City:     Attm/ Charles:       Fax #:     Address:     On full     State:     Zip:       Fax #:     Fax #:     Address:     On full     Attm/ Charles:     On full       Sample I.D.     (G)RAB OR (C)OMP.     Phone #:     Zip:     Tup:     Fax #:       VNES24-09     O-4     (G)RAB OR (C)OMP.     Fax #:     Phone #:     Zip:       SoliL     Sludge     OTHER:     Phone #:     Zip:     Tup:       VNES24-09     O-4     (G)RAB OR (C)OMP.     Fax #:     Fax #:     Zip:       VNES24-09     O-4     Fax #:     Phone #:     Zip:     Zip:       VNES24-09     O-4     Fax #:     Fax #:     Zip:     Zip:       VNES24-09     O-4     Fax #:     Zip:     Zip:     Zip:       VNES24-09     O-4     Silid Xilio:     Zip:     Zip:     Zip:       VNES24-09     O-4     Silid Xilio:     Zip:     Zip:     Zip:       VNES24-09     C     Silid Xilio:     Zip:     Zip:     Zip:	A     MONIO     Fax #:     Zip:     Address:     Ongeny:     EOG       Fax     Fax #:     Fax #:     Zip:     Address:     Address:     Address:     Ongel       A     MONIO     Fed     Sample I.D.     Sample I.D.     Sample I.D.     Fax #:     Address:     On full       Sample I.D.     GROUNDWATER     MATRIX     PRESERV     Sampline #:     Zip:       NOTHER:     GROUNDWATER     MATRIX     PRESERV     Sampline #:     Zip:       VMESCU-OG     O-4'     C (G)RAB OR (C)OMP.     Fax #:     Zip:     Tip:       VMESCU-OG     O-4'     GROUNDWATER     Phone #:     Zip:       VMESCU-OG     O-4'     GROUNDWATER     Solid     Sild C       VMESCU-OG     O-4'     GROUNDWATER     Phone #:     Zip:       VMESCU-OG     OTHER:     NOTHER:     Sild C     Solid       VMESCU-OG     OTHER:     Sild C     Solid     Sild C       VMESCU-OG     TPH     (8015 D)     X     X	State:     Zip:     Attn Order       Fax #:     Froject Owner:     Fax #:     Address:       Order     Floats     Fed     Only       Address:     Only     Floats     Fed       Sample I.D.     GROUNDWATER     MATRIX     Phone #:       WASTEWATER     GROUNDWATER     MATRIX     PRESERV       Soil     Sludge     Fax #:     Fax       OTHER:     ACID/BASE:     Fax #:     Fax       ACID/BASE:     NATE     NME       VCSOU-09     OTHER:     Sligle       ACID/BASE:     VASTEWATER     Sligle       ACID/BASE     VASTEWATER     Sligle       ACID/BASE     VASTEWATER     Sligle       ACID/BASE     VASTEWATER     Sligle       ACID/BASE     VASTEWATER     Sligle	MES74-09 8-1	
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PILL TO PILL TO PIL	Project owner: E-05855 Project owner: COOW FLOATS FE, J. CMP. Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#: Fax#:	File     State:     Zip:     Attn ChOQL       Fax #:     Project Owner:     Company: EOG       Forward Company:     Fax #:     Attn ChOQL       Fax #:     Project Owner:     City:       Conow     Flours     Fax #:       Andress:     On 1       Sample I.D.     GROUNDWATER       WAES24-09     0-4'       GROUNDWATER     PRESERV       WAES24-09     9:2'       GROUNDWATER     PRESERV       SoliL     SoliL       SLUDGE     Fax #:       VMES24-09     8:12'       GROUNDWATER     PRESERV       WAES24-09     8:12'       GROUNDWATER     PRESERV       SoliL     SoliL       SLUDGE     Fax #:       VMES24-09     8:12'       GROUNDWATER     PRESERV       SOIL     SATE       OIL     SLUDGE       OTHER:     SATE       ACID/BASE:     SI32/N10:30       X     YOU	State:     Zip:     AtmChOge     AtmChOge       Fax #:     Froject Owner:     Fax #:     Address:     Address:       Forow Flocts Fed     Containers     City:     Address:     On fill       Sample I.D.     Sample I.D.     Fax #:     Phone #:     Zip:       WES24-09     0-4'     C (G)RAB OR (C)OMP.     Phone #:     Zip:       WASTEWATER     MATRIX     PRESERV     Sampling       WES24-09     0-4'     C (G)RAB OR (C)OMP.     Fax #:     Zip:       WASTEWATER     MATRIX     PRESERV     Sampling       WES24-09     0-4'     C (G)RAB OR (C)OMP.     Fax #:     Zip:       WASTEWATER     MATRIX     PRESERV     Sampling       WASTEWATER     MATRIX     PRESERV     Sampling       WASTEWATER     NOTHER:     Fax #:     Zip:       WASTEWATER     NOTHER:     Fax #:     Zip:       MES24+09     U-8'     C (SO21)     Fax #:       WES24+09     EXECT     Sil3/24/10:30     X       MES24+09     TPH     SO15     D	N CO - H CO O-	
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PO.#: PO.#: Fax#: For VCATTA (EOG) Sample I.D. Sample I.D. NESS 24-09 8 12: NESS 24: NESS 24	PO.# Fill State: Zip: Ample State: Zip: Fax #: Company: EOG Fax #: Commany: EOG Fax #: Com	File     State:     Zip:     AtmCh032     Company:     EOG       Fax #:     Froject Owner:     City:     Address:     On file       Crow File     Company:     EOG     Address:     On file       Sample I.D.     Sample I.D.     State:     Zip:       Address:     On file     Fax #:     Address:     On file       NESS24-09     8-12'     CigRab or (C)OMP.     Fax #:     Fax #:       VNESS24-09     8-12'     CigRab or (C)OMP.     Fax #:     Fax #:       VNESS24-09     8-12'     CigRab or (C)OMP.     Fax #:     Fax #:       VNESS24-09     8-12'     Fax #:     Fax #:     Fax #:   <	State: ZID: Fax #: Fax #: F		
BILL TO       Project Manager:     Th V DN     Polet       Chys     State:     Zip:     Company:	Project Manager: (TTX VOT) Address: OT, File Project State: Zip: State: Zip: Company: EOG Project Name: CNOW FIGUS FR.d. CMM 1 State: Zip: Project Comment Project Name: CNOW FIGUS FR.d. CMM 1 State: Zip: Project Comment Project Name: CNOW FIGUS FR.d. CMM 1 State: Zip: Phone #:	Address:       ON FILL       State:       Zip:       Company:       EOG         Project Name:       Fax #:       Fax #:       Address:       ON FILL       Address:       ON FILL         Project Name:       COW       Flock Stress       Froject Norme:       Address:       ON FILL         Project Name:       COW       Flock Stress       Froject Norme:       Flock Stress       City:         Project Name:       COW       Flock Stress       Flock Stress       Flock Stress       Flock Stress         Project Name:       COW       Flock Stress       Flock Stress       Flock Stress       Flock Stress         Project Name:       COW       Flock Stress       Flock Stress       Flock Stress       Flock Stress         Project Name:       COW       Flock Stress       Flock Stress       Flock Stress       Flock Stress         Project Name:       COW       Sample I.D.       Sample I.D.       Flock Stress       Flock Stress       Flock Stress         Lab I.D.       Sample I.D.       Sample J.D.       Flock Stress       Sample Stress       Flock Stress         VMESS 2.4-09       G.Flock Stress       Sample Stress       Sample Stress       Sample Stress       Sample Stress         J       J       J<	City:     State:     Zip:     Address:       Phone #:     Fax #:     Fax #:     Address:       Project Name:     COW FLOATS FEC d     Som L     Address:       Project Location:     Project Owner:     City:     Address:       Project Location:     FEC d     Sampler Name:     Phone #:       Sampler Name:     A     MO D U     Fax #:     Phone #:       Sampler Name:     A     MO D U     Fax #:     Phone #:       Lab LD.     Sample I.D.     Sample I.D.     Fax #:     Phone #:       VMES 24-09     0-4'     GRAB OR (C)OMP.     Fax #:     PRESERV       VMES 24-09     8-12'     GROUNDWATER     MATE     Not Fill       VMES 24-09     8-12'     GROUNDWATER     Soil     DATE       VMES 24-09     8-12'     GROUNDWATER     NOT Fill     HI:: 30	LEASE NOTE: Lis	
Company: Name:     Children:     BILL TO     ANALYSIS       Project:     Marger:     Thit     State:     Tip:     Company: EOG       Project:     Tast:     Tip:     Ratin:     Tip:     Address:     On Grant       Project:     Tast:     Tast:     Tip:     Address:     On Grant     Company: EOG       Project:     Tast:     Tast:     Tip:     Address:     On Grant     Company: EOG       Project:     Tast:     Tast:     Tip:     Address:     On Grant     Company: EOG       Project:     Tast:     Tast:     Tip:     Company: EOG     Company: EOG     Company: EOG       Project:     Tast:     Tast:     Tip:     Company: EOG     Company: EOG     Company: EOG       Project:     Tast:     Tast:     Tip:     Project:     Tip:     Company: Eog     Company: Eog       Sampler Name:     Marcel     Marcel     Marcel     Project:     Tip:     Company: Eog     Company: Eog     Company: Eog       Sampler Name:     Amonger     Marcel     Marcel     Project:     Tip:     Company: Eog     Company: Eog       Lab I.D.     Sampler Name:     ActionBase:     Project:     Solid     Company: Eog     Company: Eog     Company: Eog	Address:     On, Fill     State:     Zip:     company:     EOG       Binne #:     Fox #:     For #:     Address:     On     Full       Project Name:     COW FIGUE Moment:     For #:     Address:     On     Full       Project Location:     For #:     Address:     On     Full     Address:     On     Full       Project Location:     For #:     Address:     On     Full     State:     Zip:       Project Location:     Sample Name:     A     MO     Fax #:     Zip:       Project Location:     Sample Name:     A     MO     Fax #:     Zip:       Sample Name:     A     MO     Fax #:     Zip:     Zip:       Sample Name:     A     MO     Fax #:     Zip:     Zip:       Sample I.D.     Sample I.D.     Solution     Fax #:     Zip:       VMES ZU-OQ     O-4     GROUNDWATER     Solution     Solution     Solution       J     J     Solution     Solution     Solution     Solution     Solution       J     J     J     J     J     J     J     J       J     J     J     J     J     J     J     J       J     J     J	Address:       Om File       State:       Zip:       Company:       Company:       EOG         Project & ZSE - 05855       Project Owner:       Fax #:       Address:       Om Attem Choose EOG         Project Rame:       Conv File       Sampler Name:       Conv File       Address:       On File         Project Location:       Sampler Name:       Conv File       Sampler Name:       Phone #:       Zip:         Project Location:       Sampler Name:       MO NU       File       State:       Zip:         Project Location:       Sampler Name:       Mone #:       Zip:       Phone #:       Zip:         Project Location:       Sample I.D.       Sample I.D.       Marxix       PRESERV       Samplung         Lab I.D.       Sample I.D.       Gigraab or (C)OMP.       Fax #:       Project Cool.       Note:       Time:         VMES Z.4-OQ       Sile       O-4'       Gigraab or (C)OMP.       Note:       Time:       Note:       Time:         JUDIOGE       Solid.	City:     State:     Zip:     Address:       Phone #:     Fax #:     Fax #:     Address:     Address:       Project #:     23E - 05855     Project Owner:     City:     Address:       Project Name:     Crow File Owner:     City:     Address:     City:       Project Name:     Crow File Owner:     City:     Project Owner:     City:       Project Name:     Crow File Owner:     File     City:     Phone #:       Project Name:     Crow File Owner:     File     City:       Project Name:     Crow File Owner:     File     File       Project Name:     Crow File Owner:     File     File       Project Name:     Crow File     File     File       Project Name:     Crow File     File     File       Project Name:     Crow File     File     File       Lab LD.     Sample I.D.     GigRab OR (C)OMP.     File       Lab LD.     Sample I.D.     File     File       VMES 2 CH-OQ     City:     OHER:     Soil       J     J     GROUNDWATER     Nate       J     J     GROUNDWATER     Nate       J     J     J     J     J       J     J     J     J     J	including those for negligence and any other cause whatspewer shall Cardinal be liable for incidental or consequental damages.	ing windrard cated in contract or tork shall be limited to the amount paid by the client for the ver unless made in writing and received by Cardina within 30 days after completion of the applicat align business meanmines from of the other than the state of the state of the applicate the state of the
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Company Name:     CMC TALL (EQ.L)     BILL TO     BILL TO       Project Manager:     TALL TO     Pol. #:     Company:     EQ.L'       Orge:     State:     Top:     Nath:     Company:     EQ.L'       Project Manager:     Fax #:     Fax #:     Nath:     Company:     EQ.L'       Project #     State:     Top:     Nath:     Company:     EQ.L'       Project #     State:     Top:     Nath:     Company:     EQ.L'       Project #     State:     Top:     Nath:     Company:     EQ.L'       Project Name:     Concol Article Concol     State:     Top:     Anth: Concol     Fax #:       Project Name:     Concol Article Table:     North     State:     Top:     Fax #:       Project Name:     Concol Article Table:     Project Name:     Project Name:     Concol Article Table:     Fax #:       Project Name:     Concol Article Table:     Project Name:     North     State:     State:     State:       Project Name:     North     Sample:     North     North     State:     State:     State:       Project Name:     North     Sample:     North     North     State:     State:     State:       Labl D:     Sample:     Sample:	Project Manager: CTN V OT - FO. * Address: OT - FO. * Address: OT - FO. * Address: OT - FU V OT - FO. * Address: OT - FU V OT - FO. * Address: OT - FU V OT - FO. * Address: OT - FU V OT - FO. * Address: OT - FU V OT - FO. * Address: OT - FU V OT - FO. * Address: OT - FU V OT - FO. * Address: OT - FU V OT - FO. * Address: OT - FU V OT - FO. * Address: OT - FU V OT - FO. * Address: OT - FU V OT - FO. * Address: OT - FU V OT - FO. * Address: OT - FU V OT - FO. * Address: OT - FU V OT - FO. * Address: OT - FU V OT - FO. * Address: OT - FU V OT - FO. * Address: OT - FU V OT - FO. * Address: OT - FU V OT - FO. * Address: OT - FU V OT - FO. * Address: OT - FU V OT - FO. * Address: OT - FU V OT - FO. * Address: OT - FU V OT - FO. * Address: OT - FU V OT - FO. * Address: OT - FU V OT - FO. * Address: OT - FU V OT - FO. * Address: OT - FU V OT - FO. * Address: OT - FU V OT - FO. * Address: OT - FU V OT - FO. * Address: OT - FU V OT - FO. * Address: OT - FU V OT - FO. * Address: OT - FU V OT - FO. * Address: OT - FU V OT - FO. * Address: OT - FU V OT - FO. * Address: OT - FU V OT - FO. * Address: OT - FO. * Address: OT - FO. * Address: OT - FU V OT - FO. * Address: OT - FO. * Ad	Address:       OM       F.W.       Sate:       Tip:       AmmOnOg       Comony:       Com	City:       State:       Zip:       Address:         Project #:       732 E - 058 55       Project Owner:       City:       Address:       On QL VIII         Project Rame:       COV FLOUTS FECH Owner:       City:       Address:       On QL VIII         Project Location:       Sampler Name:       COV FLOUTS FECH Owner:       City:       Phone #:         Sampler Name:       Address:       On U       Fax #:       Phone #:       City:         I ab 1.D.       Sample 1.D.       Sample 1.D.       Fax #:       Prosect:       Fax #:       Prosect:         I ab 1.D.       Sample 1.D.       Sample 1.D.       GROUNDWATER       Prosect:       Fax #:       Image:       Image: <td>TM S-14</td> <td>Received By: NI Verbal Result: Ye</td>	TM S-14	Received By: NI Verbal Result: Ye
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811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

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

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

QUESTIONS

Action 353954

QUESTIONS		
Operator:	OGRID:	
EOG RESOURCES INC	7377	
5509 Champions Drive	Action Number:	
Midland, TX 79706	353954	
	Action Type:	
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

#### QUESTIONS

Prerequisites	
Incident ID (n#)	nPCH0514328346
Incident Name	NPCH0514328346 CROW FLATS FEDERAL COM #001 @ 30-015-23386
Incident Type	Complaint
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-23386] CROW FLATS FEDERAL COM #001

#### Location of Release Source

Please answer all the questions in this group.			
Site Name	CROW FLATS FEDERAL COM #001		
Date Release Discovered	05/22/2005		
Surface Owner	Federal		

#### Incident Details

Please answer all the questions in this group.
Incident Type

Incident Type	Complaint
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 the volumes provided should be attached to the follow-up C-141 submission. Cause: Other | Other (Specify) | Crude Oil | Released: 0 BBL (Unknown Released Amount) | Crude Oil Released (bbls) Details Recovered: 0 BBL | Lost: 0 BBL Produced Water Released (bbls) Details Not answered. Is the concentration of chloride in the produced water >10,000 mg/l Not answered. 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 Not answered. Other, Specify, Unknown, and/or Fire, or any negative lost amounts)

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

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

QUESTIONS, Page 2

Action 353954

QUESTIONS (continued)		
Operator:	OGRID:	
EOG RESOURCES INC	7377	
5509 Champions Drive	Action Number:	
Midland, TX 79706	353954	
	Action Type:	
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

#### 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	Yes		
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.		
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e	. gas only) are to be submitted on the C-129 form.		

Initial	Response
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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	True
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	Not answered.
	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 relea 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 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	Name: James Kennedy Title: Safety and Environmental Doecialist Email: James_kennedy@eogresources.com Date: 07/09/2024

**District I** 

1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

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District III

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

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

QUESTIONS, Page 3

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Action 353954

**QUESTIONS** (continued)

Operator:	OGRID:
EOG RESOURCES INC	7377
5509 Champions Drive	Action Number:
Midland, TX 79706	353954
	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 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)	Less than or equal 25 (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 500 and 1000 (ft.)		
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)		
An occupied permanent residence, school, hospital, institution, or church	Greater than 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 ½ and 1 (mi.)		
Incorporated municipal boundaries or a defined municipal fresh water well field	Between ½ and 1 (mi.)		
A wetland	Between ½ and 1 (mi.)		
A subsurface mine	Greater than 5 (mi.)		
An (non-karst) unstable area	Zero feet, overlying, or within area		
Categorize the risk of this well / site being in a karst geology	High		
A 100-year floodplain	Between ½ and 1 (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 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 CI B) 1900 TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M) 19630 GRO+DRO (EPA SW-846 Method 8015M) 13530 BTEX (EPA SW-846 Method 8021B or 8260B) 40.8 (EPA SW-846 Method 8021B or 8260B) Benzene 0.4 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 12/18/2023 On what date will (or did) the final sampling or liner inspection occur 12/18/2023 On what date will (or was) the remediation complete(d) 05/13/2024 What is the estimated surface area (in square feet) that will be reclaimed 4462 What is the estimated volume (in cubic yards) that will be reclaimed 6900 What is the estimated surface area (in square feet) that will be remediated 74260 What is the estimated volume (in cubic yards) that will be remediated 6900 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 (continued)		
Operator: EOG RESOURCES INC	OGRID: 7377	
5509 Champions Drive	Action Number:	
Midland, TX 79706	353954	
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	
QUESTIONS		
Remediation Plan (continued)		
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.	
This remediation will (or is expected to) utilize the following processes to remediate	/ reduce contaminants:	
(Select all answers below that apply.)		
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes	
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]	
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.	
OR is the off-site disposal site, to be used, out-of-state	Not answered.	
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No	
(In Situ) Soil Vapor Extraction	No	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No	
Ground Water Abatement pursuant to 19.15.30 NMAC	No	
OTHER (Non-listed remedial process)	No	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed ef which includes the anticipated timelines for beginning and completing the remediation.	forts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,	
to report and/or file certain release notifications and perform corrective actions for relea the OCD does not relieve the operator of liability should their operations have failed to a	nowledge and understand that pursuant to OCD rules and regulations all operators are required ses which may endanger public health or the environment. The acceptance of a C-141 report by idequately investigate and remediate contamination that pose a threat to groundwater, surface 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 Title: Safe	nes Kennedy ty and Environmental Doecialist nes_kennedy@eogresources.com 9/2024
The OCD recognizes that proceed remodiction measures may have to be minimally adjusted in coordenes with th	

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

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Action 353954

QUESTIONS (continued)	
Operator: EOG RESOURCES INC	OGRID: 7377
5509 Champions Drive Midland, TX 79706	Action Number: 353954
	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	Νο	

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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

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Action 353954

**QUESTIONS** (continued) Operator: OGRID: EOG RESOURCES INC 7377 5509 Champions Drive Action Number: Midland, TX 79706 353954 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	342076
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/13/2024
What was the (estimated) number of samples that were to be gathered	4
What was the sampling surface area in square feet	800

**Remediation Closure Request** 

Only answer the questions in this group if seeking remediation closure for this release because all re	emediation 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	74260
What was the total volume (cubic yards) remediated	14216
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	74260
What was the total volume (in cubic yards) reclaimed	14216
Summarize any additional remediation activities not included by answers (above)	Please see attached report.
	closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of
to report and/or file certain release notifications and perform corrective actions for release the OCD does not relieve the operator of liability should their operations have failed to water, human health or the environment. In addition, OCD acceptance of a C-141 report	knowledge and understand that pursuant to OCD rules and regulations all operators are required uses 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 ially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed ng optification to the OCD when reclamation and re-vegetation are complete.

	Name: James Kennedy
I hereby agree and sign off to the above statement	Title: Safety and Environmental Doecialist
The by agree and eight on to the above statement	Email: James_kennedy@eogresources.com
	Date: 07/09/2024

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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 7

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Action 353954

**QUESTIONS** (continued)

QUE	STONS (continued)
Operator:	OGRID:
EOG RESOURCES INC	7377
5509 Champions Drive	Action Number:
Midland, TX 79706	353954
	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 353954

CONDITIONS Operator: OGRID: EOG RESOURCES INC 7377 5509 Champions Drive Action Number: Midland, TX 79706 353954 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### CONDITIONS

Created By	Condition	Condition Date
amaxwell	Remediation closure approved.	7/9/2024
amaxwell	A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	7/9/2024
amaxwell	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	7/9/2024