100 mg/s	Spill Volume(Bbls) Calculator							
Inputs in blue, Outputs in red								
Col	ntaminated S	Soil measurement						
Length(Ft)	Width(Ft)	Depth(Ft)						
<u>160</u>	60.000	0.063						
Cubic Feet of S	Soil Impacted	604.800						
Barrels of So	il Impacted	<u>107.81</u>						
Soil T	уре	Clay/Sand						
Barrels of Oi 100% Sat	300	<u>16.17</u>						
Saturation	Fluid pre	sent with shovel/backhoe						
Estimated Ba Relea		16.17						
	Free Standi	ng Fluid Only						
Length(Ft)	Width(Ft)	Depth(Ft)						
<u>160</u>	<u>50.000</u>	0.063						
Standin	g fluid	<u>89.640</u>						
Total fluid	ls spilled	<u>105.811</u>						



Incident Number: nAPP2129847651

Release Assessment and Deferral Request

Stray Cat 8 5 Federal Com #214H

Unit P, Section 08, Township 23 South, Range 32 East

API: 30-025-44601

County: Lea

Vertex File Number: 22E-00189

Prepared for:

Devon Energy Production Company, LP

Prepared by:

Vertex Resource Services Inc.

Date:

June 2024

Release Assessment and Deferral Request June 2024

Release Assessment and Deferral Request Stray Cat 8 5 Federal Com #214H Unit P, Section 08, Township 23 South, Range 32 East

API: 30-025-44601

Prepared for:

County: Lea

Devon Energy Production Company

6488 Seven Rivers Highway Artesia, New Mexico 88210

New Mexico Oil Conservation Division - District I

1625 North French Drive Hobbs, New Mexico 88240

Prepared by:

Vertex Resource Services Inc.

3101 Boyd Drive

Carlsbad, New Mexico 88220

Stephanie McCarty
Stephanie McCarty, B.Sc.

ENVIRONMENTAL TECHINICIAN, REPORTING

June 15, 2024

Date

kent stallings P.G.

June 21, 2024

Kent Stallings, P.G.

PROJECT MANAGER, REPORT REVIEW

Date

Release Assessment and Deferral Request June 2024

Table of Contents

1.0	Introduction	1
	Incident Description	
	Site Characteristics	
	Closure Criteria Determination	
	Remedial Actions Taken	
	Deferral Request	
	References	
	Limitations	7

Release Assessment and Deferral Request June 2024

In-text Tables

- Table 1. Closure Criteria Determination
- Table 2. Closure Criteria for Soils Impacted by a Release

List of Figures

- Figure 1. Characterization Sampling Site Schematic
- Figure 2. Confirmation Sampling Site Schematic

List of Tables

- Table 3. Characterization Sample Field Screen and Laboratory Results Depth to Groundwater 51 100 feet bgs
- Table 4. Confirmatory Sample Field Screen and Laboratory Results Depth to Groundwater 51 100 feet bgs

List of Appendices

Appendix A. NMOCD C 141 Report

Appendix B. Closure Criteria Research Documentation

Appendix C. Daily Field and Sampling Reports

Appendix D. Notifications

Appendix E. Laboratory Data Reports and Chain of Custody Forms

Release Assessment and Deferral Request June 2024

1.0 Introduction

Devon Energy Production Company, LP (Devon) retained Vertex Resource Services Inc. (Vertex) to conduct a Release Assessment and Closure for a produced water and crude oil release that occurred on October 2, 2021, at Stray Cat 8 5 Federal Com #214H API 30-025-44601 (hereafter referred to as the "site"). Devon submitted an initial C-141 Release Notification (Appendix A) to New Mexico Oil Conservation Division (NMOCD) District 1 on October 25, 2021. Incident ID number nAPP2129847651 was assigned to this incident.

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

2.0 Incident Description

The release occurred on October 2, 2021, due to a leak at the central tank battery separators, resulting in fluid releasing onto the pad. The incident was reported on October 25, 2021, and involved the release of approximately 35 barrels (bbl.) of crude oil and 70.8 bbl. of produced water on the open pad site. Approximately 35 bbl. of crude oil and 70.8 bbl. of produced water were recovered during the initial clean-up. Additional details relevant to the release are presented in the C-141 Report (Appendix A).

3.0 Site Characteristics

The site is located approximately 24 miles east of Loving, New Mexico (Google Inc., 2024). The legal location for the site is Unit P, Section 08, Township 23 South and Range 32 East in Lea County, New Mexico. The release area is located on Bureau of Land Management (BLM) property. An aerial photograph and site schematic are presented on Figure 1.

The location is typical of oil and gas exploration and production sites in the Permian Basin and is currently used for oil and gas production and storage. The following sections specifically describe the release area at the site on the constructed pad.

The surface geology at the site primarily comprises Qep - Eolian and Piedmont deposits (Holocene to middle Pleistocene) and is characterized as interlayed eolian sands and piedmont-slope deposits (New Mexico Bureau of Geology and Mineral Resources, 2023) and the soil at the site is characterized as fine sand (United States Department of Agriculture, Natural Resources Conservation Service, 2023). Additional soil characteristics include well drained soil with very low runoff and low available moisture levels in the soil profile. The karst geology potential for the site is low (United States Department of the Interior, Bureau of Land Management, 2018).

The surrounding landscape is associated with terraces, upland plains, dunes and piedmonts at elevations of 2,842 to 4,500 feet. The climate is semiarid with average annual precipitation ranging between 8 and 13 inches. Using information from the United States Department of Agriculture, the dominant vegetation was determined to be grasses

Release Assessment and Deferral Request June 2024

with shrubs. Dropseeds (*Sporobolus Giganteus*, *S. flexuosus*, *S. contractus*, *S. cryptandrus*), threeawns (*Aristida* spp.), bluestems (*Schizachyrium scoparium* and *Andropogon hallii*) and scattered with shinnery oak and soapweed yucca dominate the historic plant community (United States Department of Agriculture, Natural Resources Conservation Service, 2023). Limited to no vegetation is allowed to grow on the compacted production pad, right-of-way and access road.

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 0.04 miles southwest of the location (United States Geological Survey, 2024). Data from 2024 show the NMOSE borehole, C-04815-POD1 recorded a depth to groundwater of greater than 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 located approximately 3.6 miles west of the site (United States Fish and Wildlife Service, 2023).

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.

	ne: Stray Cat 8 5 Federal Com #214H	V. II 622470	V. 2576052	
	ordinates: 32.314605,-103.698996	X: U 622470	Y: 3576052	
ite Spe	cific Conditions	Value	Unit	
	Depth to Groundwater (nearest reference)	>55	feet	
1	Distance between release and nearest DTGW	224	feet	
	reference	0.04	miles	
	Date of nearest DTGW reference measurement	April	16, 2024	
2	Within 300 feet of any continuously flowing	19,220	feet	
	watercourse or any other significant watercourse	·		
3	Within 200 feet of any lakebed, sinkhole or playa	25,027	feet	
	lake (measured from the ordinary high-water mark)	·		
4	Within 300 feet from an occupied residence, school,	37,178	feet	
	hospital, institution or church	,		
	i) Within 500 feet of a spring or a private, domestic	10.500		
_	fresh water well used by less than five households	10,599	feet	
5	for domestic or stock watering purposes, or			
	ii) Within 1000 feet of any fresh water well or spring	10,599	feet	
	Within incorporated municipal boundaries or			
	within a defined municipal fresh water field			
6	covered under a municipal ordinance adopted	No	(Y/N)	
	pursuant to Section 3-27-3 NMSA 1978 as amended,			
	unless the municipality specifically approves			
7	Within 300 feet of a wetland	26,083	feet	
	Within the area overlying a subsurface mine	No	(Y/N)	
8	Distance between release and nearest registered			
	mine	58,156	feet	
			Critical	
			High	
9	Within an unstable area (Karst Map)	Low	Medium	
			Low	
	Distance between release and nearest High Karst	39,090	feet	
	Within a 100-year Floodplain	500	year	
10	Distance between release and nearest FEMA Zone	66 140	foot	
	A (100-year Floodplain)	66,149	feet	
11	Soil Type	Fine sand, sa	andy clay loam	
12	Ecological Classification	Dee	p Sand	
13	Geology	Qep- Eolian and	piedmont deposi	
			<50'	
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	51-100'	51-100'	
			>100'	

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

Table 2. Closure Criteria for Soils Impacted by a Release						
Minimum depth below any point within the horizontal boundary of the release to groundwater less than						
10,000 mg/l TDS	Constituent	Limit				
	Chloride	10,000 mg/kg				
	TPH (GRO+DRO+MRO)	2,500 mg/kg				
51 feet - 100 feet	GRO+DRO	1,000 mg/kg				
	BTEX	50 mg/kg				
	Benzene	10 mg/kg				

TDS - total dissolved solids

5.0 Remedial Actions Taken

An initial site inspection of the release area was completed on February 1, 2022, which identified the area of the release specified in the initial C-141 Report, estimated the approximate volume of the release. The impacted area was determined to be approximately 154 feet long and 144 feet wide; the total affected area is 11,309 square feet. The Daily Field Report (DFR) associated with the site inspection is included in Appendix C.

Remediation efforts began on February 1, 2022, and were finalized on May 7, 2024. Vertex personnel supervised the excavation of impacted soils east of the separators. Field screening was completed on a total of 80 sample points and consisted of analysis using a Photo Ionization Detector (volatile hydrocarbons), Dexsil Petroflag using EPA SW-846 Method 9074 (extractable hydrocarbons) and electroconductivity meter (chlorides). Field screening results (Table 3) were used to identify areas requiring further remediation. Soils were removed to a depth of 2 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 – New Mexico filed with the NMOCD. Field screening results and DFRs documenting various phases of the remediation are presented in Appendix C.

Notification that confirmatory samples were being collected was provided to the NMOCD on April 25, 2022, and is included in Appendix D. Confirmatory composite samples were collected from the base and walls of the excavation in 200 square foot increments. A total of 57 samples were collected for laboratory analysis following NMOCD soil sampling procedures. Samples were submitted to Hall Environmental Analysis Laboratory, Inc., now Eurofins Albuquerque, 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.

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

BTEX – benzene, toluene, ethylbenzene and xylenes

Release Assessment and Deferral Request June 2024

6.0 Deferral Request

Vertex recommends no additional remediation action at this time to address the release at Stray Cat 8 5 Federal Com #214H until the equipment on-site is decommissioned and removed.

The release area was fully delineated and laboratory analyses of the final confirmatory samples collected outside the deferral request area showed constituent of concern concentration levels below NMOCD closure criteria for areas where depth to groundwater is 51 to 100 feet bgs as shown in Table 2. Areas of release were remediated and backfilled with local soils.

On behalf of Devon, Vertex requests deferral of the portions of the release that are designated in proximity to dense equipment and is deemed unsafe for excavation of contaminated materials. The release and deferral request areas have been fully delineated with the understanding that should the deferral request be accepted, restoration of this portion of the release will be deferred until such time as all oil and gas activities are terminated and the site is reclaimed following remediation activities as per NMAC 19.15.29.13. Deferral request areas are identified on Figures 1 and 2. The release volume was 105.8 bbl and was localized to the pad in immediate proximity of production equipment and infrastructure. Facility deconstruction will be required to complete remediation of the release.

Should you have any questions or concerns, please do not hesitate to contact Kent Stallings at 346.814.1413 or kstallings@vertex.ca.

7.0 References

- Google Inc. (2024). Google Earth Pro (Version 7.3.3) [Software]. Retrieved from https://earth.google.com
- New Mexico Bureau of Geology and Mineral Resources. (2023). *Interactive Geologic Map*. Retrieved from https://maps.nmt.edu/
- New Mexico Department of Surface Water Quality Bureau. (2023). *Assessed and Impaired Waters of New Mexico*. Retrieved from https://gis.web.env.nm.gov/oem/?map=swqb
- New Mexico Energy, Minerals and Natural Resources Department. (2023). *OCD Permitting Spill Search*. Retrieved from https://wwwapps.emnrd.nm.gov/ocd/ocdpermitting/Data/Spills/Spills.aspx
- New Mexico Mining and Minerals Division. (2023). Registered Mines Web Map. Retrieved from http://www.emnrd.state.nm.us/MMD/gismapminedata.html
- New Mexico Office of the State Engineer. (2023a). *Point of Diversion Location Report New Mexico Water Rights Reporting System*. Retrieved from http://nmwrrs.ose.state.nm.us/nmwrrs/wellSurfaceDiversion.html
- New Mexico Office of the State Engineer. (2023b). Water Column/Average Depth to Water Report New Mexico Water Rights Reporting System. Retrieved from http://nmwrrs.ose.state.nm.us/nmwrrs/waterColumn.html
- New Mexico Office of the State Engineer. (2023c). Well Log/Meter Information Report New Mexico Water Rights
 Reporting System. Retrieved from http://nmwrrs.ose.state.nm.us/nmwrrs/meterReport.html
- New Mexico Oil Conservation Division. (2018). *New Mexico Administrative Code Natural Resources and Wildlife Oil and Gas Releases*. Santa Fe, New Mexico.
- United States Department of Agriculture, Natural Resources Conservation Service. (2023). *Web Soil Survey*. Retrieved from https://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx
- United States Department of Homeland Security, Federal Emergency Management Agency. (2023). *FEMA Flood Map Service: Search by Address*. Retrieved from https://msc.fema.gov/portal/search?AddressQuery=malaga% 20new%20mexico#searchresultsanchor
- United States Department of the Interior, Bureau of Land Management. (2018). *New Mexico Cave/Karst*. Retrieved from https://www.nm.blm.gov/shapeFiles/cfo/carlsbad_spatial_data.html
- United States Fish and Wildlife Service. (2023). *National Wetland Inventory Surface Waters and Wetlands*. Retrieved from https://fwsprimary.wim.usgs.gov/wetlands/apps/wetlands-mapper/
- United States Geological Survey. (2024). *National Water Information System: Web Interface*. Retrieved from https://waterdata.usgs.gov/nwis

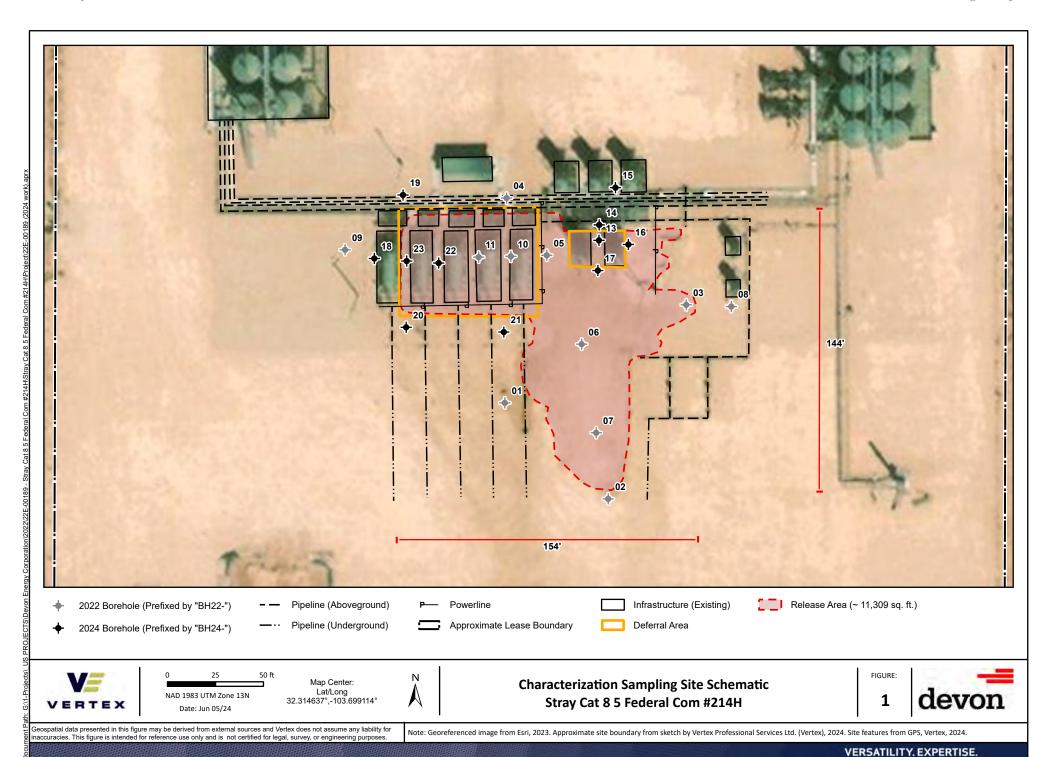
Release Assessment and Deferral Request June 2024

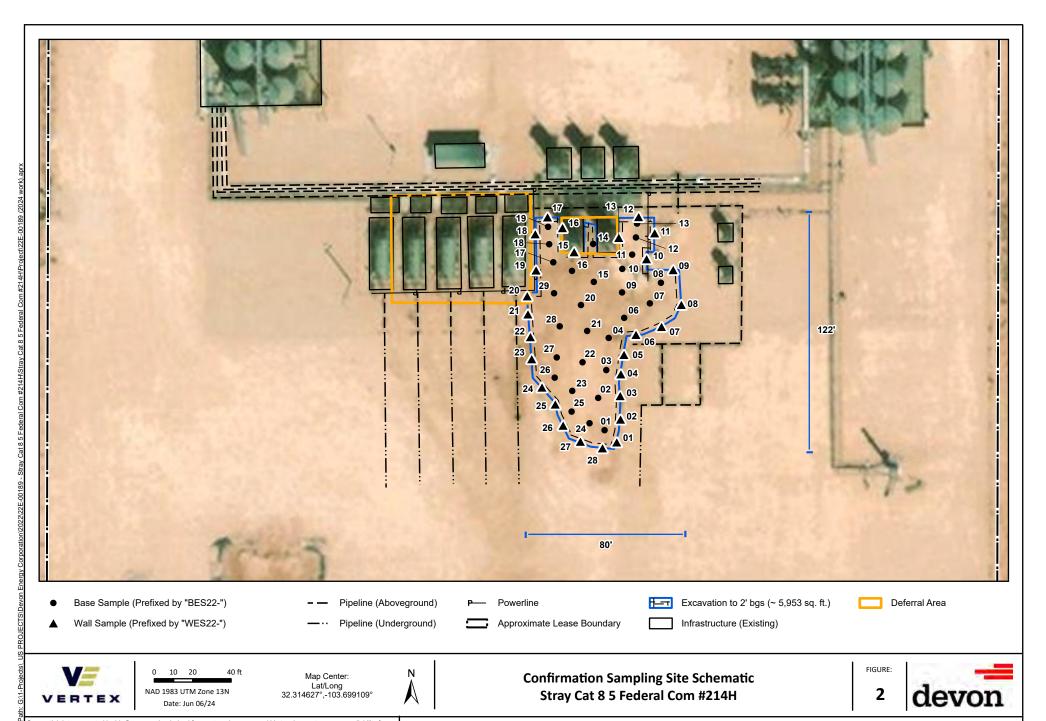
8.0 Limitations

This report has been prepared for the sole benefit of Devon Energy Production Company, LP. 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 Devon Energy Production Company, LP. Any use of this report by a third party, or any reliance on decisions made based on it, or damages suffered as a result of the use of this report are the sole responsibility of the user.

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

FIGURES





eospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for laccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes. Note: Georeferenced image from Esri, 2022. Approximate site boundary from sketch by Vertex Professional Services Ltd. (Vertex), 2024. Site features from GPS, Vertex, 2024.

TABLES

Client Name: Devon Energy Production Company, LP Site Name: Stray Cat 8 5 Federal Com #214H NM OCD Tracking #: nAPP2129847651

Project #: 22E-00189

Lab Reports: 2202151, 2202B31, 2204383, 885-3647-1, 885-4194-1 and 885-4189-1

	Sample Desc	ble 3. Characterization		eld Screeni				-	um Hydro				
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				Vol	atile			Extractable	•		Inorgani
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (PetroFlag)	Chloride	Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	Chloride
	0	F-h1 2022	(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BH22-01	0 2	February 1, 2022 April 28, 2024	0	36 5	0 ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND 9.7
	0	February 1, 2022	0	77	106	ND	ND	ND	31	ND ND	31	31	110
BH22-02	2	April 28, 2024	0	0	ND	ND	ND	ND	ND	ND	ND	ND	ND
	0	February 1, 2022	0	92	288	ND	ND	ND	89	110	89	199	320
BH22-03	2	April 28, 2024	0	1	ND	ND	ND	ND	ND	ND	ND	ND	7.7
DU22 04	0	February 1, 2022	0	22	18	ND	ND	ND	ND	ND	ND	ND	ND
BH22-04	2	April 28, 2024	0	3	ND	ND	ND	ND	ND	ND	ND	ND	38
	0	February 1, 2022	65	3,710	1,756	ND	ND	ND	2,800	1,200	2,800	4,000	2,200
BH22-05	1	February 1, 2022	0	121	1,004	ND	ND	ND	270	100	270	370	850
	2	February 1, 2022	3	30	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH22-06	0	February 1, 2022	395	4,540	5,548	ND	4.15	140	4,900	1,300	5,040	6,340	8,600
	2	February 1, 2022	4	23	ND	ND	ND	ND	ND	68	ND	68	ND
BH22-07	0	February 1, 2022	128	4,300	11,188	ND	0.51	65	6,100	2,400	6,165	8,565	13,000
	2	February 1, 2022	5	17	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH22-08	0	February 22, 2022	-	-	-	ND	ND	ND	13	ND	13	13	76
	2	April 28, 2024	0	0	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH22-09	0 2	February 22, 2022	- 0	- 0	- ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	110 14
	0	April 28, 2024 April 6, 2022	0	976	10748	ND	ND ND	ND	510	510	510	1020	
BH22-10	2	May 6, 2024	0	-	365	ND ND	ND ND	ND ND	ND	ND ND	ND ND	ND	30,000 280
	4	May 6, 2024	0		1727	ND	ND ND	ND	ND	ND ND	ND ND	ND ND	1,100
	6	May 7, 2024	0	-	139	ND	ND	ND	ND	ND	ND	ND	130
	0	April 6, 2022	0	1520	11218	ND	ND	ND	6900	6300	6900	13200	31,000
	2	May 6, 2024	0	-	1516	ND	ND	ND	ND	ND	ND	ND	580
BH22-11	4	May 6, 2024	0	-	1814	ND	ND	ND	ND	ND	ND	ND	1,000
	6	May 7, 2024	0	-	1645	ND	ND	ND	ND	ND	ND	ND	860
	8	May 7, 2024	0	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
	0	May 6, 2024	0	-	2339	ND	ND	ND	4000	2600	4000	6600	2,100
BH24-13	2	May 6, 2024	0	-	252	ND	ND	ND	ND	ND	ND	ND	240
	4	May 6, 2024	0	56	ND	ND	ND	ND	ND	ND	ND	ND	81
BH24-14	0	May 6, 2024	0	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2	May 6, 2024	0	-	ND	ND	ND	ND	ND	ND	ND	ND	66
BH24-15	0	May 6, 2024	0	33	ND	ND	ND	ND	ND	ND	ND ND	ND	ND 67
	2	May 6, 2024	0	33	ND FO	ND	ND	ND	ND	ND	ND	ND	67
BH24-16	4	May 6, 2024 May 6, 2024	0	- 57	50 ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	110 67
	2	May 6, 2024	0	-	431	ND	ND ND	ND	ND	ND ND	ND	ND	250
BH24-17	4	May 6, 2024	0	80	161	ND	ND	ND	ND	ND	ND ND	ND	160
	0	May 6, 2024	0	71	67	ND	ND	ND	ND	ND	ND	ND	110
BH24-18	2	May 6, 2024	0	19	ND	ND	ND	ND	ND	ND	ND	ND	ND
DU34 10	0	May 6, 2024	0	22	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH24-19	2	May 6, 2024	0	23	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH24-20	0	May 6, 2024	0	48	ND	ND	ND	ND	ND	ND	ND	ND	ND
DHZ4-20	2	May 6, 2024	0	28	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH24-21	0	May 6, 2024	0	53	ND	ND	ND	ND	ND	ND	ND	ND	ND
21127 21	2	May 6, 2024	0	45	ND	ND	ND	ND	ND	ND	ND	ND	ND
	0	May 6, 2024	0	_	962	ND	ND	ND	27	ND	27	27	540
į			· ·		302	.,,,	110	.,,,				21	0.0
BH24-22	2	May 6, 2024 May 6, 2024	0	-	1176	ND	ND	ND	ND	ND	ND	ND	670



Client Name: Devon Energy Production Company, LP Site Name: Stray Cat 8 5 Federal Com #214H NM OCD Tracking #: nAPP2129847651

Project #: 22E-00189

Lab Reports: 2202151, 2202B31, 2204383, 885-3647-1, 885-4194-1 and 885-4189-1

	Table 3. Characterization Sample Field Screen and Laboratory Results - Depth to Groundwater 51 - 100 feet bgs												
	Sample Des	cription	Fi	eld Screeni	ng	Petroleum Hydrocarbons							
			S			Vol	atile			Extractable	;		Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds	Extractable Organic Compounds (PetroFlag)	(mdd) Chloride	Benzene (mg/kg)	BTEX (Total)	(GRO)	B Diesel Range Organics (DRO)	স্ত্র Motor Oil Range Organics স্ত্র (MRO)	(gkO + DRO)	교 Total Petroleum 존 Hydrocarbons (TPH)	(mg/kg)
	0	May 6, 2024	0	- -	4377	ND	ND	ND	ND	ND	ND	ND	3,900
BH24-23	2	May 6, 2024	0	-	579	ND	ND	ND	ND	ND	ND	ND	430
	4	May 6, 2024	0	78	428	ND	ND	ND	ND	ND	ND	ND	340

[&]quot;-" indicates not analyzed/assessed

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



[&]quot;ND" Not Detected at the Reporting Limit

Client Name: Devon Energy Production Company, LP

Site Name: Stray Cat 8 5 Federal Com 214H NMOCD Tracking #: nAPP2129847651

Project #: 22E-00189 Lab Report: 2204C92

	Sample Description		Field Screening	and Laboratory Results - Depth to Groundwater 51 -100 feet bgs Petroleum Hydrocarbons							
	ample Descri	ption	rield Screening	Vol	atile	Extractable					Inorganic
Sample ID	Depth (ft)	Sample Date	Chloride Concentration	Benzene	(Bakaka (Total)	Gasoline Range Organics	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	Chloride Concentration
BS22-01	2	April 27, 2022	(ppm)	(mg/kg)		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BS22-01	2	April 27, 2022 April 27, 2022	115	ND	ND	ND	56	ND	56	56	200
BS22-02 BS22-03	2		0	ND	ND	ND	17	ND	17	17	88
	1	April 27, 2022	95	ND	ND	ND	120	77	120	197	190
BS22-04	2	April 27, 2022	113	ND	ND	ND	94	74 ND	94 ND	168	230
BS22-05 BS22-06	2	April 27, 2022 April 27, 2022	0	ND	ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
BS22-06 BS22-07	2	April 27, 2022 April 27, 2022	155	ND ND	ND ND	ND ND	ND 48	ND ND	ND 48	ND 48	ND 160
BS22-07 BS22-08	2	April 27, 2022 April 27, 2022	155 56								
BS22-08 BS22-09	2	April 27, 2022 April 27, 2022	0	ND ND	ND ND	ND ND	33 12	ND ND	33 12	33 12	150 110
BS22-09 BS22-10	2	•									
BS22-10	2	April 27, 2022 April 27, 2022	203 291	ND	ND	ND	32	ND	32 41	32	250 290
BS22-11	2	April 27, 2022	200	ND ND	ND ND	ND ND	41 50	ND ND	50	41 50	260
BS22-13	2	April 27, 2022	313				21		21		
BS22-13	2	April 27, 2022		ND ND	ND ND	ND ND	100	ND 110	100	21 210	310
BS22-14	2	•	1,743 0	ND	ND	ND	14	ND	14	14	1400 97
BS22-15	2	April 27, 2022 April 27, 2022	228	ND	ND	ND	ND	ND	ND	ND	350
BS22-17	2	April 27, 2022	1,493	ND	ND	ND	ND ND	ND	ND ND	ND	1400
BS22-18	2	April 27, 2022	1,306	ND	ND	ND	16	ND	16	16	1100
BS22-19	2	April 27, 2022	909	ND	ND	ND	29	ND	29	29	850
BS22-20	2	April 27, 2022	116	ND	ND	ND	82	52	82	134	260
BS22-21	2	April 27, 2022	150	ND	ND	ND	42	ND	42	42	180
BS22-22	2	April 27, 2022	181	ND	ND	ND	31	ND	31	31	140
BS22-23	2	April 27, 2022	241	ND	ND	ND	ND	ND	ND	ND	320
BS22-24	2	April 27, 2022	279	ND	ND	ND	65	ND	65	65	250
BS22-25	2	April 27, 2022	308	ND	ND	ND	150	72	150	222	420
BS22-26	2	April 27, 2022	180	ND	ND	ND	71	ND	71	71	190
BS22-27	2	April 27, 2022	591	ND	ND	ND ND	62	ND	62	62	400
BS22-28	2	April 27, 2022	443	ND	ND	ND	57	ND	57	57	440
BS22-29	2	April 27, 2022	3,498	ND	ND	ND	18	ND	18	18	2500
WS22-01	0 - 2	April 27, 2022	116	ND	ND	ND	270	240	270	510	150
WS22-02	0 - 2	April 27, 2022	210	ND	ND	ND	41	ND	41	41	240
WS22-03	0 - 2	April 27, 2022	253	ND	ND	ND	71	58	71	129	290
WS22-04	0 - 2	April 27, 2022	0	ND	ND	ND	ND	ND	ND	ND	ND
WS22-05	0 - 2	April 27, 2022	95	ND	ND	ND	390	290	390	680	150
WS22-06	0 - 2	April 27, 2022	108	ND	ND	ND	51	ND	51	51	160
WS22-07	0 - 2	April 27, 2022	139	ND	ND	ND	41	ND	41	41	140
WS22-08	0 - 2	April 27, 2022	298	ND	ND	ND	74	51	74	125	330
WS22-09	0 - 2	April 27, 2022	342	ND	ND	ND	65	54	65	119	340
WS22-10	0 - 2	April 27, 2022	17	ND	ND	ND	ND	ND	ND	ND	120
WS22-11	0 - 2	April 27, 2022	262	ND	ND	ND	37	ND	37	37	270
WS22-12	0 - 2	April 27, 2022	738	ND	ND	ND	100	80	100	180	300
WS22-13	0 - 2	April 27, 2022	600	ND	ND	ND	74	77	74	151	770
WS22-14	0 - 2	April 27, 2022	2,538	ND	ND	ND	98	94	98	192	1800
WS22-15	0 - 2	April 27, 2022	1,806	ND	ND	ND	ND	ND	ND	ND	1400



Client Name: Devon Energy Production Company, LP

Site Name: Stray Cat 8 5 Federal Com 214H NMOCD Tracking #: nAPP2129847651

Project #: 22E-00189 Lab Report: 2204C92

	Table 4. C	Confirmatory Sam	Table 4. Confirmatory Sample Field Screen and Laboratory Results - Depth to Groundwater 51 -100 feet bgs									
S	ample Descri	ption	Field Screening		Petroleum Hydrocarbons							
				Vol	atile			Extractable			Inorganic	
Sample ID	Depth (ft)	Sample Date	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)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
WS22-16	0 - 2	April 27, 2022	2,202	ND	ND	ND	42	49	42	91	1800	
WS22-17	0 - 2	April 27, 2022	1,283	ND	ND	ND	100	90	100	190	1400	
WS22-18	0 - 2	April 27, 2022	4,827	ND	ND	ND	130	110	130	240	2400	
WS22-19	0 - 2	April 27, 2022	2,293	ND	ND	ND	55	53	55	108	2000	
WS22-20	0 - 2	April 27, 2022	360	ND	ND	ND	13	ND	13	13	460	
WS22-21	0 - 2	April 27, 2022	253	ND	ND	ND	38	ND	38	38	270	
WS22-22	0 - 2	April 27, 2022	116	ND	ND	ND	22	ND	22	22	160	
WS22-23	0 - 2	April 27, 2022	307	ND	ND	ND	96	76	96	172	290	
WS22-24	0 - 2	April 27, 2022	12	ND	ND	ND	11	ND	11	11	160	
WS22-25	0 - 2	April 27, 2022	355	ND	ND	ND	19	ND	19	19	190	
WS22-26	0 - 2	April 27, 2022	320	ND	ND	ND	100	66	100	166	180	
WS22-27	0 - 2	April 27, 2022	108	ND	ND	ND	47	ND	47	47	270	
WS22-28	0 - 2	April 27, 2022	316	ND	ND	ND	21	ND	21	21	150	

[&]quot;ND" Not Detected at the Reporting Limit

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



[&]quot;-" indicates not analyzed/assessed

APPENDIX A - NMOCD C-141 Report

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

State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible	Party			OGRID	ID				
Contact Nam	e			Contact Te	elephone				
Contact emai	1			Incident #	t # (assigned by OCD)				
Contact mail	ing address			1					
			Location	of Release So	ource				
Latitude Longitude (NAD 83 in decimal degrees to 5 decimal places)									
Site Name				Site Type					
Date Release	Discovered			API# (if app	licable)				
Unit Letter	Section	Township	Range	Coun	ity				
Crude Oil	Material	Federal Tr	Nature and	l Volume of I	justification for the	e volumes provided below)			
Produced		Volume Released			Volume Recovered (bbls)				
	water	Is the concentrate	ion of total dissolv water >10,000 mg		Volume Recovered (bbls) Yes No				
Condensa	te	Volume Release	d (bbls)		Volume Reco	overed (bbls)			
☐ Natural G	as	Volume Release	d (Mcf)		Volume Reco	overed (Mcf)			
Other (des	scribe)	Volume/Weight	Released (provide	e units)	Volume/Weig	ght Recovered (provide units)			
Cause of Rele	ease								

Received by OCD: 6/26/20243:34:52 PM1 State of New Mexico Page 2 Oil Conservation Division

Pag	e 23	eof	<i>356</i>

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the respon	nsible party consider this a major release?
release as defined by 19.15.29.7(A) NMAC?		
Yes No		
TOTAL TOTAL	l agpa p l agr	
If YES, was immediate no	office given to the OCD? By whom? To whom?	nom? When and by what means (phone, email, etc)?
	Initial R	esponse
The responsible p	party must undertake the following actions immediate	ly unless they could create a safety hazard that would result in injury
☐ The source of the rele	ease has been stopped.	
☐ The impacted area ha	s been secured to protect human health and	the environment.
Released materials ha	ave been contained via the use of berms or o	likes, absorbent pads, or other containment devices.
☐ All free liquids and re	ecoverable materials have been removed an	d managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain	why:
		emediation immediately after discovery of a release. If remediation
		efforts have been successfully completed or if the release occurred blease attach all information needed for closure evaluation.
I hereby certify that the infor	rmation given above is true and complete to the	best of my knowledge and understand that pursuant to OCD rules and
regulations all operators are	required to report and/or file certain release noti	fications and perform corrective actions for releases which may endanger DCD does not relieve the operator of liability should their operations have
failed to adequately investigated	ate and remediate contamination that pose a three	eat to groundwater, surface water, human health or the environment. In
addition, OCD acceptance of and/or regulations.	f a C-141 report does not relieve the operator of	responsibility for compliance with any other federal, state, or local laws
		T'AL.
	n //	
Signature: Nendra	DeHoyos	Date:
email:		Telephone:
OCD Only		
Received by:		Date:

Sp	ill Volume(Bbl	s) Calculator			
Ji	puts in blue, Ou	itputs in red			
Co	ntaminated Soil i	measurement			
Length(Ft)	Width(Ft)	Depth(Ft)			
<u>160</u>	60.000	0.063			
Cubic Feet of	Soil Impacted	604.800			
Barrels of So	il Impacted	107.81			
Soil	Гуре	Clay/Sand			
Barrels of O 100% Sat		<u>16.17</u>			
Saturation	Fluid present	ent with shovel/backhoe			
Estimated Ba	Service and Control	16.17			
	Free Standing F	Fluid Only			
Length(Ft)	Width(Ft)	Depth(Ft)			
160	50.000	0.063			
Standir	ng fluid	89.640			
Total fluid	ds spilled	105.811			

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 57706

CONDITIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	57706
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date		
rmarcus	None	11/1/2021		

	Page 26 of 35	6
Incident ID	nAPP2129847651	
District RP		
Facility ID	30-025-44601	
Application ID		

Site Assessment/Characterization

Ints information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release?	<u>>55</u> (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ⊠ No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
Characterization Report Checklist: Each of the following items must be included in the report.	

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

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

Received by OCD: 6/26/2024 3:34:52 PM Form C-141 State of New Mexico Page 4 Oil Conservation Division

	Page 27 of 35
Incident ID	nAPP2129847651
District RP	
Facility ID	30-025-44601
Application ID	

Page 28 of 356

T '1 . ID	A DD0100047651
Incident ID	nAPP2129847651
District RP	
Facility ID	30-025-44601
Application ID	

Closure

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

Closure Report Attachment Checklist: Each of the following is	tems must be included in the closure report.				
	1 NMAC				
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office nust be notified 2 days prior to liner inspection)					
☐ Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)				
□ Description of remediation activities					
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rer human health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the coaccordance with 19.15.29.13 NMAC including notification to the O	ntions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete.				
Printed Name: _Dale Woodall	Title: _Environmental Professional				
Signature:	Date:				
email: _Dale.Woodall@dvn.com	Telephone: _575-748-1838				
OCD Only					
Received by:	Date:				
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.				
Closure Approved by:	Date:				
Printed Name:	Title:				
					

APPENDIX B – Closure Criteria Research Documentation

	e: Stray Cat 8 5 Federal Com #214H	l	
-	dinates: 32.314605,-103.698996	X: U 622470	Y: 3576052
ite Spec	fic Conditions	Value	Unit
	Depth to Groundwater (nearest reference)	>55	feet
1	Distance between release and nearest DTGW reference	224	feet
_		0.04	miles
	Date of nearest DTGW reference measurement	April 1	16, 2024
2	Within 300 feet of any continuously flowing watercourse	19,220	feet
	or any other significant watercourse		
3	Within 200 feet of any lakebed, sinkhole or playa lake	25,027	feet
	(measured from the ordinary high-water mark)	23,027	1000
4	Within 300 feet from an occupied residence, school,	37,178	feet
	hospital, institution or church	37,170	1000
	i) Within 500 feet of a spring or a private, domestic fresh		
	water well used by less than five households for	10,599	feet
5	domestic or stock watering purposes, or		
	ii) Within 1000 feet of any fresh water well or spring	10,599	feet
	Within incorporated municipal boundaries or within a		
	defined municipal fresh water field covered under a		
6	municipal ordinance adopted pursuant to Section 3-27-3	No	(Y/N)
6		INO	(1/10)
	NMSA 1978 as amended, unless the municipality specifically approves		
		26.002	ft
7	Within 300 feet of a wetland	26,083	feet
0	Within the area overlying a subsurface mine	No	(Y/N)
8	Distance between release and nearest registered mine	58,156	feet
			Critical
	W		High
9	Within an unstable area (Karst Map)	Low	Medium
			Low
	Distance between release and nearest High Karst	39,090	feet
	Within a 100-year Floodplain	500	year
10	Distance between release and nearest FEMA Zone A (100-	CC 440	ft
	year Floodplain)	66,149	feet
11	Soil Type	Fine sand, sa	andy clay loam
4.2	Feel aging! Classification	D	a Cand
12	Ecological Classification	Deep	o Sand
13	Geology	Qep- Eolian and բ	piedmont deposits
			<50'
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	51-100'	51-100'
			>100'



z	OSE POD NO. (WELL NO.) C-04815 WELL TAG ID NO.						OSE FILE NO(S). C-4815-POD1 PHONE (OPTIONAL)					
CATIO	WELL OWNER NAME(S) Devon Energy Resources											
ELL LO	WELL OWNER MAILING ADDRESS 205 E. Bender Road #150							CITY STATE ZIP Hobbs NM 88240				ZIP
1. GENERAL AND WELL LOCATION	EATTOBE						N W	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84				
	LICENSE NO. 1833		NAME OF LICENSED		ason Maley				NAME OF WELL DR	ILLING Co		
	DRILLING STAR 4-16-24		DRILLING ENDED 4-16-24			ORE HO	LE DEPTH (FT) 55'	DEPTH WATER FIR	ST ENCOU			
Z	COMPLETED WELL IS: ARTESIAN *add Centralizer info be			✓ DRY HOLE SHALLOW (UNCONFINED)				C WATER LEVEL MPLETED WELL	0'	DATE STATIC N		
MATIO	DRILLING FLUID:						-		CHECK	HERE IF	PITLESS ADAP	TER IS
OR			ROTART HAMP						INSTAI	LED		
SING IN	FROM FROM	TO	BORE HOLE DIAM (inches)	(include eac	(include each casing string, and		CASING CONNECTION TYPE add coupling diameter)		CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)		SLOT SIZE (inches)
C C	0	45	6"	PV	C 2" SCH40	11/		Thread	2"	SCH40		N/A
DRILLING & CASING INFORMATION	45	55	6"	PV	PVC 2" SCH40		7	Thread	2"	S	SCH40	.02
2.1									OSE OT APR	25 20)24 рм2;37	
TH	DEPTH (feet hal) DODE HOLD				AL MATERIAL AND GRAVEL PACK SIZE- RANGE BY INTERVAL		AMOUNT ME		метно	ETHOD OF		
ERIAL	FROM	то	DIAM. (inches)	*(if using Centralizers for Artesian wells- indicate the None pulled and plugged			e spacing below	(cubic feet)		PLACEM	PLACEMENT	
AR MAT												
ANNULAR MATERIAL												
3.												
	OSE INTERNA				POD N	10 1			20 WELL RECORD		(Version 09/2	2/2022)
_	ATION 13	5	32E.08.	143	TODIN	· ·		WELL TAG		.0	PAGE	1 OF 2

	DEPTH (f	eet hal)								ESTIMATED			
	FROM	то	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)					ATER RING? S / NO)	YIELD FOR WATER- BEARING ZONES (gpm)			
	0	10	10'		Brown sand	with calich	e	Y	✓ N				
	10	30	20'		Tan fine sand	with small r	ock	Y	✓ N				
	30	55	25'		Tan fi	ne sand		Y	√N				
- 8								Y	N				
								Y	N				
1								Y	N				
4. HYDROGEOLOGIC LOG OF WELL								Y	N				
OFV								Y	N				
50								Y	N				
CL								Y	N				
OG								Y	N				
EOL								Y	N				
50								Y	N				
YDE								Y	N				
4. H								Y	N				
								Y	N				
								Y	N	-			
								Y	N				
								Y	N				
								Y					
								Y	N N				
	METHOD U			OF WATER-BEARI		Y:Dry hole		TOTAL EST WELL YIEI	IMATED	0			
,	WELL TEST TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.												
5. TEST; RIG SUPERVISION	MISCELLANEOUS INFORMATION: USE 011 APR 25 2024 PM2:37												
5. TEST	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE Jason Maley												
SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING: Jason Maley Jason Maley												
.9	SIGNATURE OF DRILLER / PRINT SIGNEE NAME DATE												
FO	R OSE INTER	NAL USE					WR-20 W	ELL RECORD	& LOG (Ve	rsion 09/22/202			
FIL	ENO. C.	24819	3		POD NO.	1	TRN NO.	7574					
LO	CATION 7	35	32E.08.	143			WELL TAG ID NO			PAGE 2 OF			

Mike A. Hamman, P.E. State Engineer



Roswell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr: File Nbr:

757440 C 04815

Well File Nbr: C 04815 POD1

Apr. 25, 2024

CHANCE DIXON VERTEX RESOURCE SERVICES INC 3101 BOYD DRIVE CARLSBAD, NM 88220

Greetings:

The above numbered permit was issued in your name on 03/14/2024.

The Well Record was received in this office on 04/25/2024, stating that it had been completed on 04/16/2024, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 03/14/2025.

If you have any questions, please feel free to contact us.

Sincerely,

Rodolfo Chavez (575) 622-6521

Rodolfo Chang

drywell



Override 1 OSE District Boundary Artesian Planning Area GIS WATERS PODs Water Right Regulations Closure Area Pending

Released to Imaging: 6/28/2024 10:19:19 AM



Esri, HERE, iPC, Esri, HERE, Garmin, iPC, Maxar



New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

								(R=POD has been replaced and no longer serves this file,	d (quarters are 1=NW 2=NE 3=SW 4=SE)							
(acre ft per annum)					C=the file is closed)	(quarters are smallest to largest)						(NAD83 UTM in me				
	Sub						Well			q c	p p					
WR File Nbr C 04703	basin CUB	Use Dive MON		Owner DEVON ENERGY PRODUCTION CO.	County LE	POD Number C 04703 POD1	Tag NA	Code Grant	Source			Sec 08	Tws 26S		X 623195	Y 3576072
<u>C 04712</u>	CUB	MON	0	VERTEX RESOURCES	LE	C 04712 POD2	NA			4 4	4 4	17	23S	32E	623331	3574331
<u>C 04704</u>	CUB	MON	0	DEVON ENERGY	ED	C 04704 POD1	NA			3 2	2 2	13	23S	31E	619854	3575363
<u>C 03851</u>	CUB	MON	0	US DEPARTMENT OF ENERGY	LE	C 03851 POD1			Artesian	3 3	3 4	20	23S	32E	622879	3572660
<u>C 04712</u>	CUB	MON	0	VERTEX RESOURCES	ED	C 04712 POD3	NA			4 1	1 2	24	23S	31E	619650	3573877
<u>C 02349</u>	CUB	STK	3	CHARLES F. JAMES	ED	<u>C 02349</u>				2	2 3	03	23S	32E	625678	3578004*
<u>C 02216</u>	CUB	PLS	11.3	BRININSTOOL XL RANCH LLC	LE	<u>C 02216</u>				2 2	2 4	21	23S	32E	625035	3573261*
<u>C 02520</u>	С	PRO	0	PENWELL ENERGY	LE	<u>C 02520</u>				1	1 4	15	23S	32E	626122	3574791*
<u>C 04726</u>	CUB	MON	0	DEVON ENERGY	ED	C 04726 POD1	NA			1 1	1 4	01	23S	31E	619538	3578821
<u>C 04663</u>	CUB	EXP	0	ENSOLUM LLC	LE	C 04663 POD1	NA			3 1	1 2	31	22S	32E	621181	3580341
C 03529	C	STK	0	ANNETTE MCCLOY	LE	C 03529 POD1				2 4	4 3	29	23S	32E	622651	3571212

Record Count: 11

UTMNAD83 Radius Search (in meters):

Easting (X): 622470 **Northing (Y):** 3576052 **Radius:** 5000

Sorted by: Distance

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 purpose of the data.

8/10/23 8:02 PM ACTIVE & INACTIVE POINTS OF D

^{*}UTM location was derived from PLSS - see Help



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

 Well Tag
 POD Number
 Q64 Q16 Q4 Sec
 Tws
 Rng

 NA
 C 04703 POD1
 1 4 4 08 26S 32E 623
 623

X Y

623196 3576072

Driller License: Driller Company:

Driller Name:

Drill Start Date: Plug Date:
Log File Date: PCW Rcv Date: Source:

Pump Type:Pipe Discharge Size:Estimated Yield:Casing Size:Depth Well:Depth Water:

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.

8/10/23 7:36 PM

POINT OF DIVERSION SUMMARY



Stray cat 8 5 Fed Com #214 Riverine 3.61 miles



August 11, 2023

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

Lake

Other

Riverine

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



Stray cat 8 5 Fed Com #214 Lakebed



August 11, 2023

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

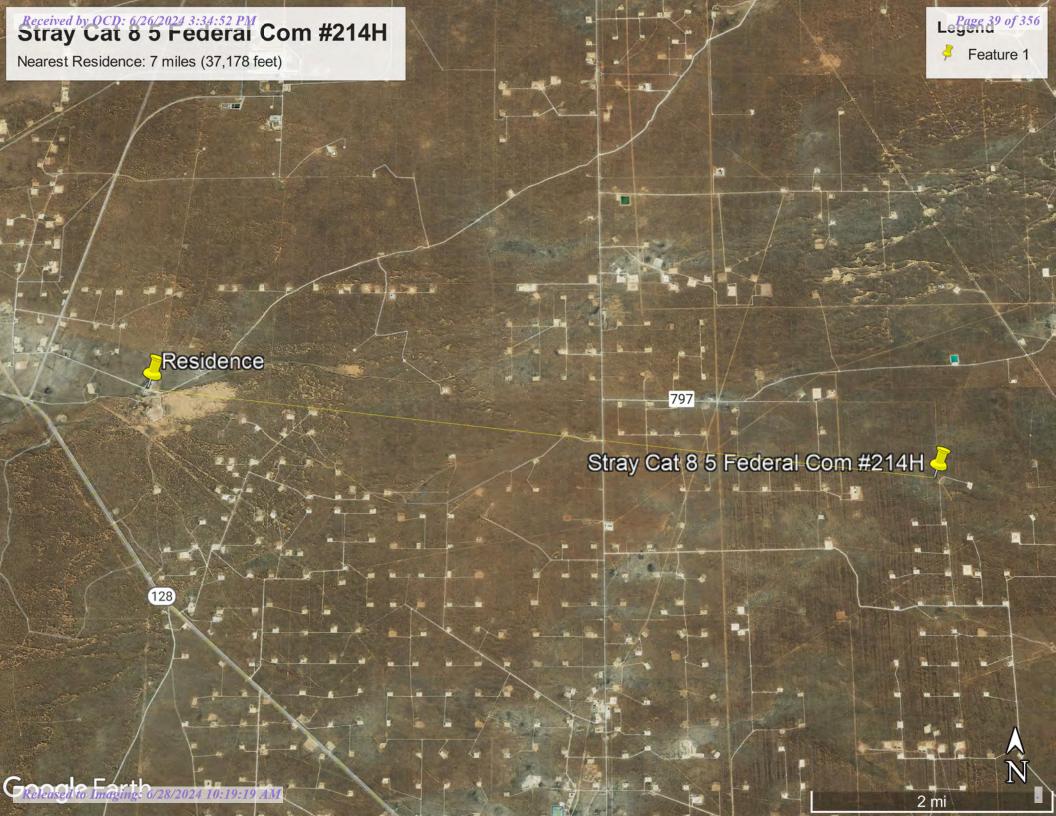
Freshwater Pond

Lake

Other

Riverine

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





New Mexico Office of the State Engineer

Water Right Summary

WR File Number: C 02349 Subbasin: CUB Cross Reference: -

Primary Purpose: STK 72-12-1 LIVESTOCK WATERING

Primary Status: DCL DECLARATION

Total Acres: 0 Subfile: - Header: -

Total Diversion: 3 Cause/Case: -

Owner: CHARLES F. JAMES

Documents on File

 Status
 From/

 Trn #
 Doc
 File/Act
 1
 2
 Transaction Desc.
 To
 Acres
 Diversion
 Consumptive

 154820
 DCL
 1998-09-09
 DCL
 PRC
 C 02349
 T
 0
 3

Current Points of Diversion

(NAD83 UTM in meters)

 POD Number
 Well Tag
 Source
 64Q16Q4Sec
 Tws Rng
 X
 Y
 Other Location Desc

 C 02349
 2 3 03 23S 32E
 625678 3578004*
 3578004*

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.

8/10/23 7:52 PM

WATER RIGHT SUMMARY

^{*}An (*) after northing value indicates UTM location was derived from PLSS - see Help



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number Q64 Q16 Q4 Sec Tws Rng

C 02349 2 3 03 23S 32E

X Y

625678 3578004*

4

Driller License:

Driller Company:

Driller Name:

Drill Start Date: 04/14/1930 Drill Finish Date:
Log File Date: PCW Rcv Date:

04/14/1930 **Plug Date:**

Source:

Pump Type:

Pipe Discharge Size:

Estimated Yield: 5 GPM

Casing Size: 8.00 Depth Well: 525 feet

Depth Water:

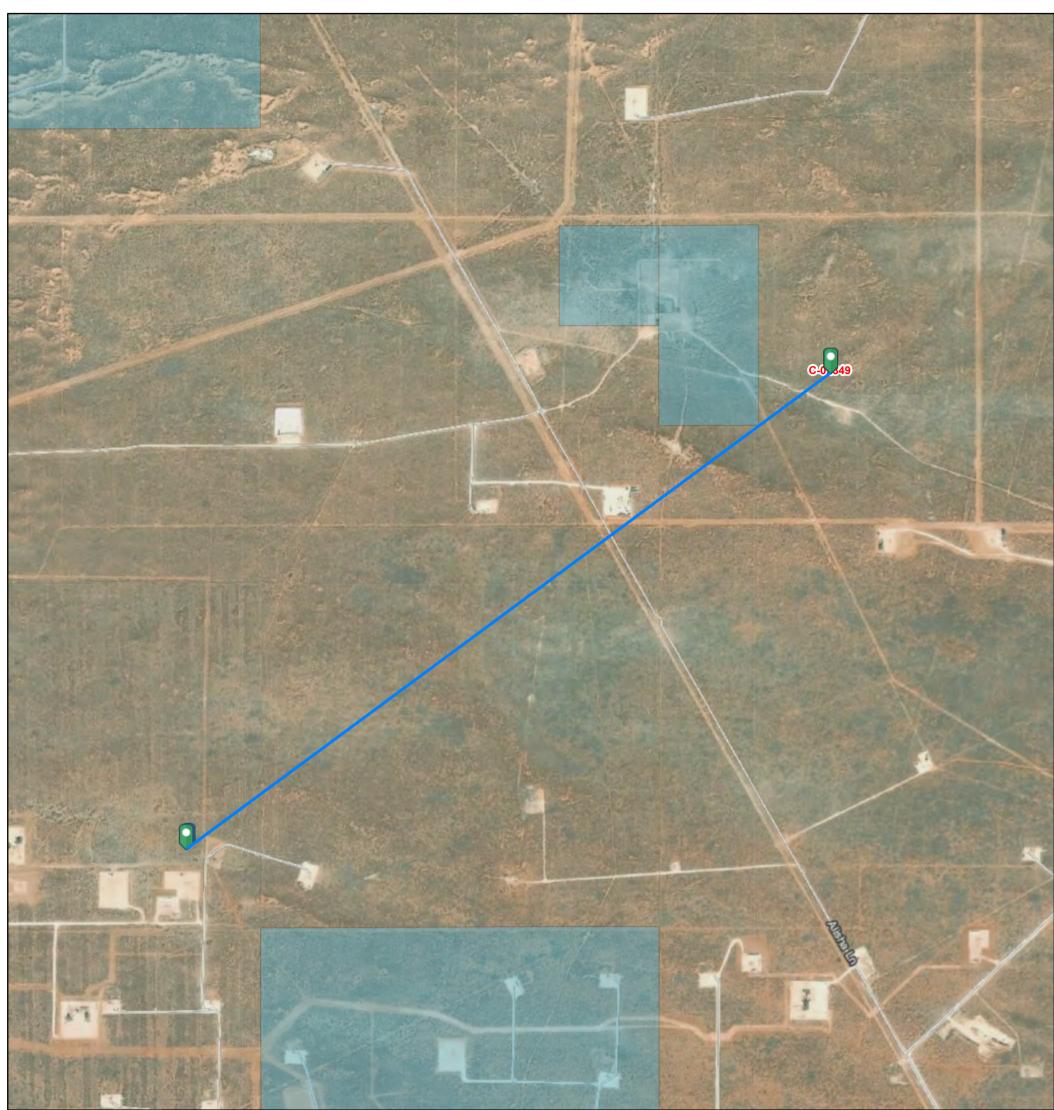
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

1/21/22 2:23 PM

POINT OF DIVERSION SUMMARY

^{*}UTM location was derived from PLSS - see Help

Stray Cat 8 5 Federal Com #214H



1/21/2022, 2:24:20 PM

Override 1

OSE District Boundary

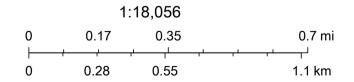
Water Right Regulations

Closure Area

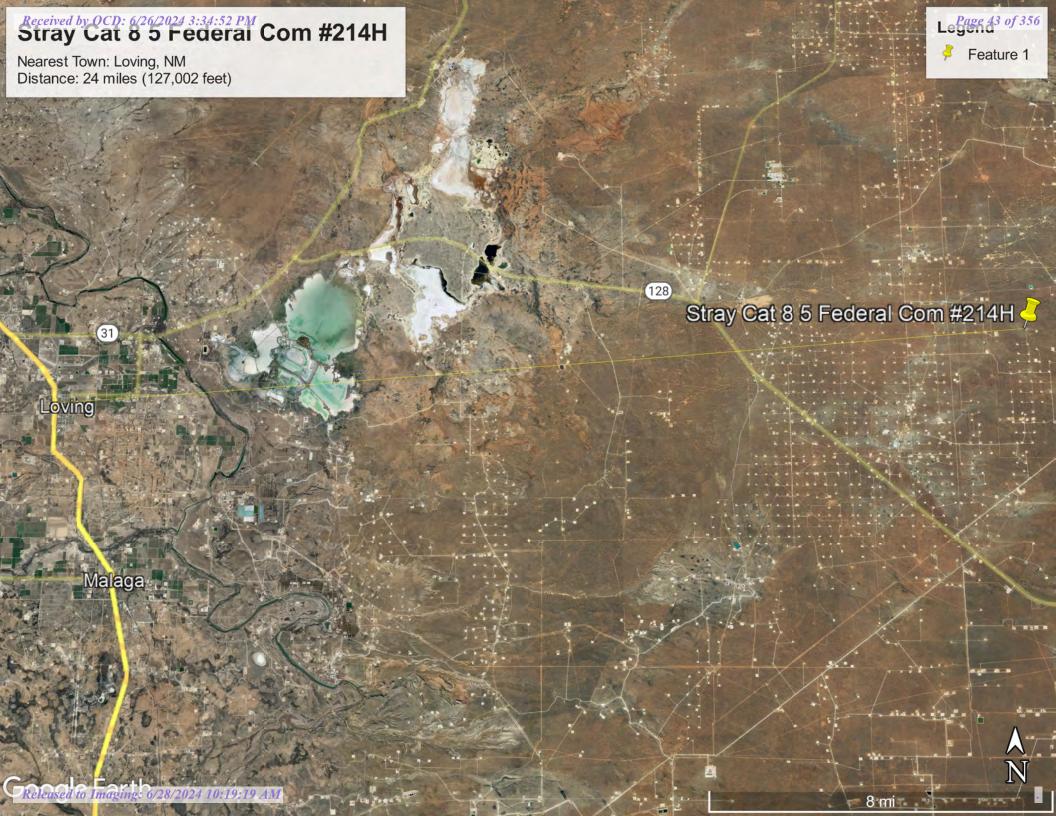
New Mexico State Trust Lands

Both Estates

SiteBoundaries



Esri, HERE, iPC, U.S. Department of Energy Office of Legacy Management, Esri, HERE, Garmin, iPC, Maxar





Stray cat 8 5 Fed Com #214 Wetland 26,083 ft



August 11, 2023

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Pond

Freshwater Forested/Shrub Wetland

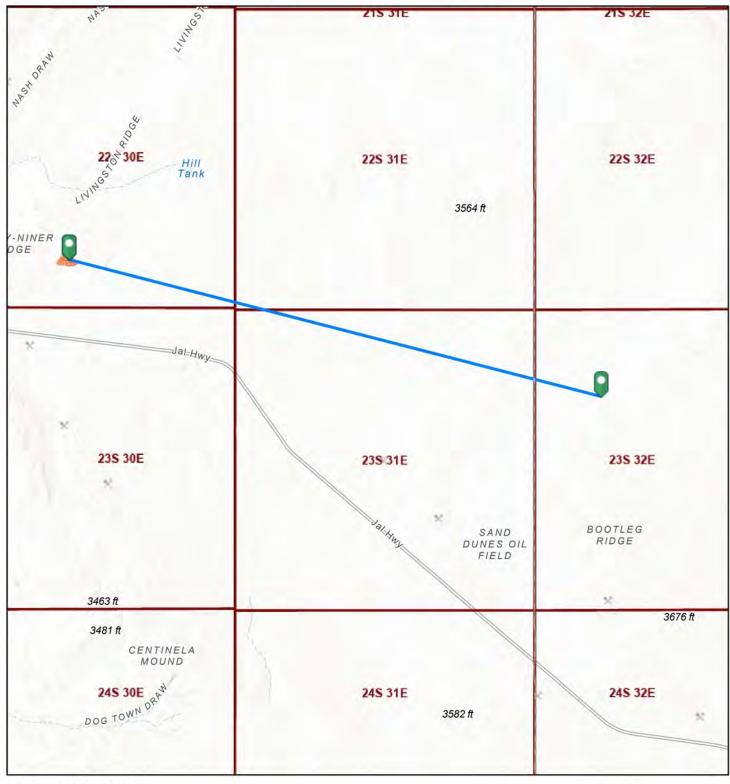
Lake

Riverine

Other

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

Nearest Mine 58,156 feet



4/17/2024, 5:07:01 AM

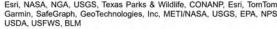
Registered Mines

- Aggregate, Stone etc.
- Aggregate, Stone etc.

Potash

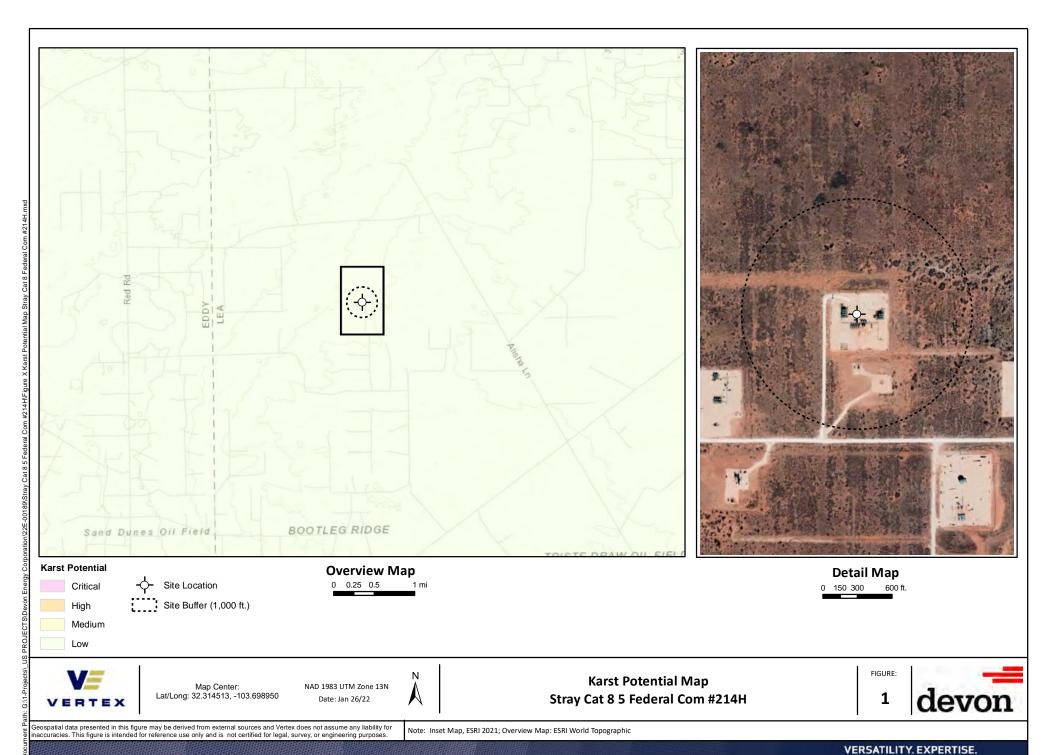
Esri, NASA, NGA, USGS, Texas Parks & Wildlife, CONANP, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, USDA, USFWS, BLM

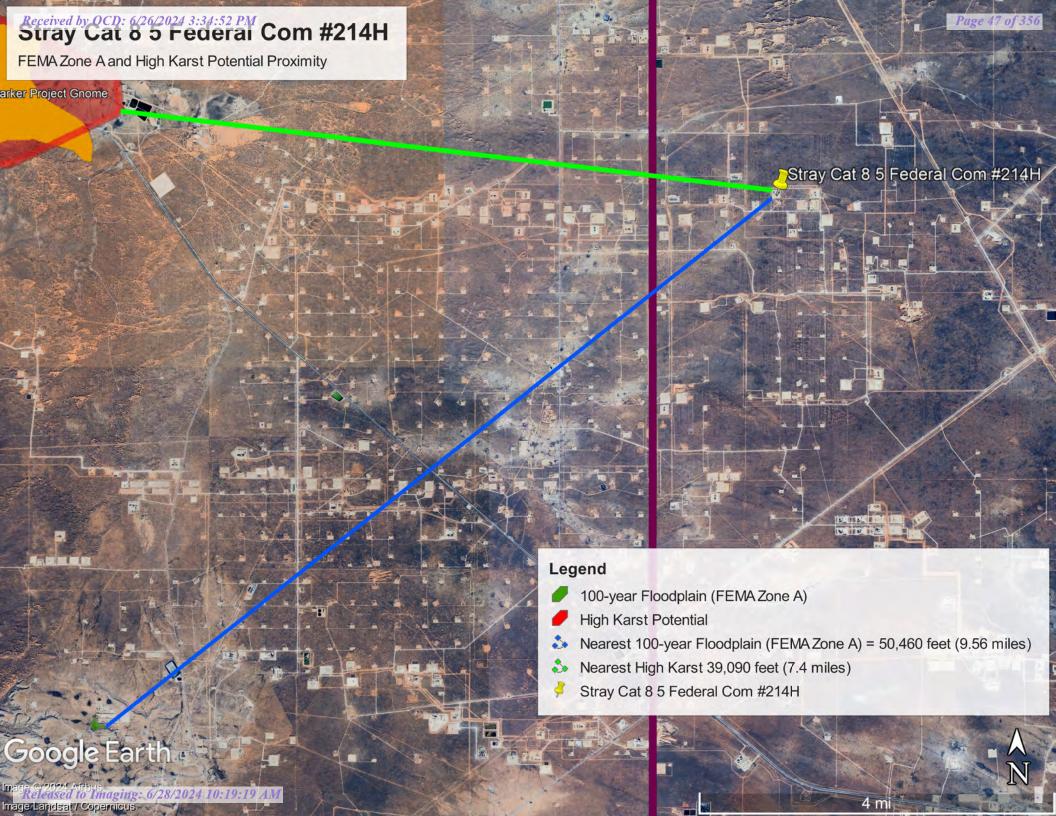
1:144,448



4 mi

6 km





National Flood Hazard Layer FIRMette





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

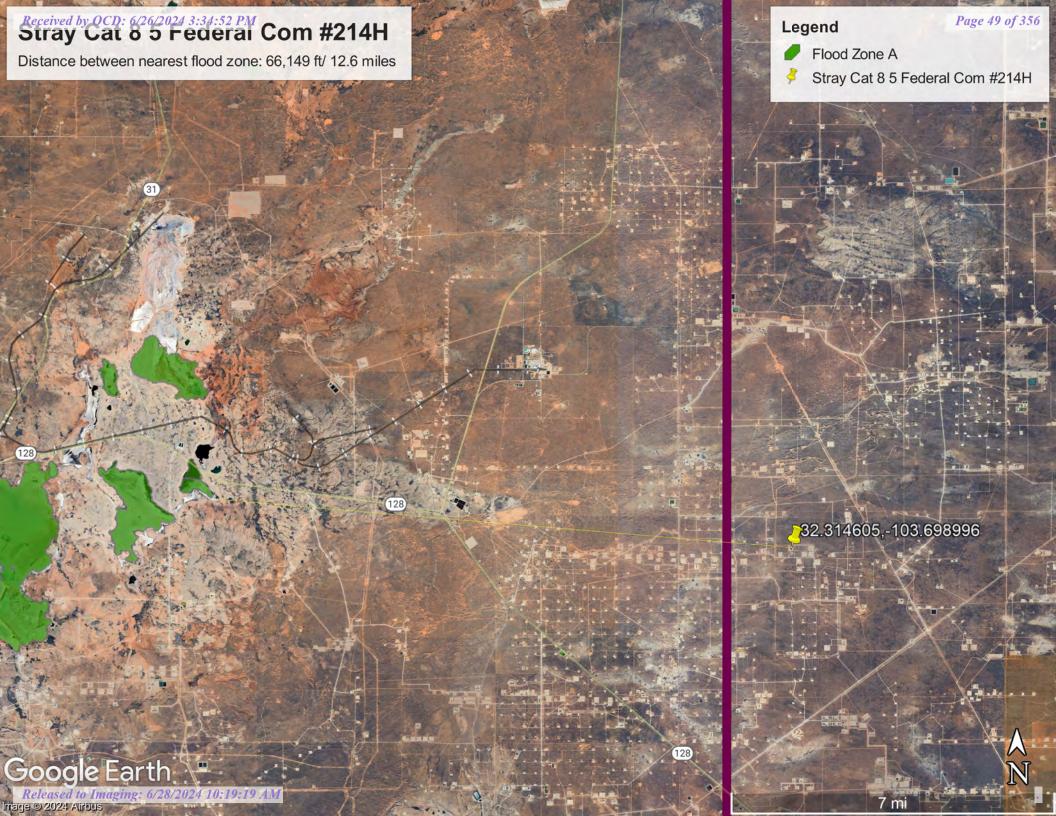
This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

an authoritative property location.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 8/10/2023 at 5:31 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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







NRCS

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

Custom Soil Resource Report for Lea County, New Mexico



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.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or a part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require

alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410 or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

Contents

Preface	2
How Soil Surveys Are Made	
Soil Map	
Soil Map	
Legend	
Map Unit Legend	11
Map Unit Descriptions	
Lea County, New Mexico	13
MF—Maljamar and Palomas fine sands, 0 to 3 percent slopes	13
WF—Wink fine sand	15
References	17

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 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.



MAP LEGEND

å

Ŷ

Δ

Water Features

Transportation

00

Background

Spoil Area

Stony Spot

Wet Spot

Other

Rails

US Routes

Major Roads

Local Roads

Very Stony Spot

Special Line Features

Streams and Canals

Interstate Highways

Aerial Photography

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons

-

Soil Map Unit Lines

Soil Map Unit Points

Special Point Features

ဖ

Blowout

 \boxtimes

Borrow Pit

Ж

Clay Spot

 \Diamond

Closed Depression

×

Gravel Pit

00

Gravelly Spot

0

Landfill Lava Flow

٨

Marsh or swamp

@

Mine or Quarry

衆

Miscellaneous Water

0

Perennial Water
Rock Outcrop

Ţ

Saline Spot

...

Sandy Spot

Severely Eroded Spot

.

Sinkhole

6

Slide or Slip

Ø

Sodic Spot

MAP INFORMATION

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

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

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

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

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

Coordinate System: Web Mercator (EPSG:3857)

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

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

Soil Survey Area: Lea County, New Mexico Survey Area Data: Version 19, Sep 8, 2022

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

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

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

Map Unit Legend

Map Unit Symbol Map Unit Name		Acres in AOI	Percent of AOI				
MF	Maljamar and Palomas fine sands, 0 to 3 percent slopes	0.0	0.4%				
WF Wink fine sand		7.5	99.6%				
Totals for Area of Interest		7.5	100.0%				

Map Unit Descriptions

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 class rarely, if ever, can be mapped without including areas of other 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.

Lea County, New Mexico

MF—Maljamar and Palomas fine sands, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: dmqb Elevation: 3,000 to 3,900 feet

Mean annual precipitation: 10 to 15 inches Mean annual air temperature: 60 to 62 degrees F

Frost-free period: 190 to 205 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Maljamar and similar soils: 46 percent Palomas and similar soils: 44 percent Minor components: 10 percent

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

Description of Maljamar

Setting

Landform: Plains

Landform position (three-dimensional): Rise

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

Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 24 inches: fine sand

Bt - 24 to 50 inches: sandy clay loam
Bkm - 50 to 60 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 40 to 60 inches to petrocalcic

Drainage class: Well drained Runoff class: Very low

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: 5 percent

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

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Low (about 5.6 inches)

Interpretive groups

Land capability classification (irrigated): 7e Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: B

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Description of Palomas

Setting

Landform: Plains

Landform position (three-dimensional): Rise

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

Parent material: Alluvium derived from sandstone

Typical profile

A - 0 to 16 inches: fine sand
Bt - 16 to 60 inches: sandy clay loam
Bk - 60 to 66 inches: sandy loam

Properties and qualities

Slope: 0 to 3 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: None Frequency of ponding: None

Calcium carbonate, maximum content: 45 percent

Gypsum, maximum content: 1 percent

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

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Moderate (about 7.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: B

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Minor Components

Kermit

Percent of map unit: 5 percent

Ecological site: R070BC022NM - Sandhills

Hydric soil rating: No

Wink

Percent of map unit: 5 percent

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

WF—Wink fine sand

Map Unit Setting

National map unit symbol: dmrl Elevation: 2,600 to 4,600 feet

Mean annual precipitation: 10 to 21 inches Mean annual air temperature: 57 to 63 degrees F

Frost-free period: 185 to 220 days

Farmland classification: Not prime farmland

Map Unit Composition

Wink and similar soils: 85 percent Minor components: 15 percent

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

Description of Wink

Setting

Landform: Depressions

Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Dip

Down-slope shape: Concave Across-slope shape: Concave

Parent material: Calcareous sandy alluvium and/or calcareous sandy eolian

deposits derived from sedimentary rock

Typical profile

A - 0 to 12 inches: fine sand Bk - 12 to 23 inches: sandy loam BCk - 23 to 60 inches: variable

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00

in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 30 percent

Gypsum, maximum content: 1 percent

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

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Low (about 4.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: A

Ecological site: R070BD005NM - Deep Sand

Hydric soil rating: No

Minor Components

Jal

Percent of map unit: 5 percent Ecological site: R070BC030NM - Limy

Hydric soil rating: No

Midessa

Percent of map unit: 4 percent

Ecological site: R070BC007NM - Loamy

Hydric soil rating: No

Drake

Percent of map unit: 3 percent Landform: Playa dunes Down-slope shape: Convex Across-slope shape: Linear

Ecological site: R077CY026TX - High Lime 16-21" PZ

Hydric soil rating: No

Kermit

Percent of map unit: 3 percent

Ecological site: R070BC022NM - Sandhills

Hydric soil rating: No

References

American Association of State Highway and Transportation Officials (AASHTO). 2004. Standard specifications for transportation materials and methods of sampling and testing. 24th edition.

American Society for Testing and Materials (ASTM). 2005. Standard classification of soils for engineering purposes. ASTM Standard D2487-00.

Cowardin, L.M., V. Carter, F.C. Golet, and E.T. LaRoe. 1979. Classification of wetlands and deep-water habitats of the United States. U.S. Fish and Wildlife Service FWS/OBS-79/31.

Federal Register. July 13, 1994. Changes in hydric soils of the United States.

Federal Register. September 18, 2002. Hydric soils of the United States.

Hurt, G.W., and L.M. Vasilas, editors. Version 6.0, 2006. Field indicators of hydric soils in the United States.

National Research Council. 1995. Wetlands: Characteristics and boundaries.

Soil Survey Division Staff. 1993. Soil survey manual. Soil Conservation Service. U.S. Department of Agriculture Handbook 18. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2 054262

Soil Survey Staff. 1999. Soil taxonomy: A basic system of soil classification for making and interpreting soil surveys. 2nd edition. Natural Resources Conservation Service, U.S. Department of Agriculture Handbook 436. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2 053577

Soil Survey Staff. 2010. Keys to soil taxonomy. 11th edition. U.S. Department of Agriculture, Natural Resources Conservation Service. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2 053580

Tiner, R.W., Jr. 1985. Wetlands of Delaware. U.S. Fish and Wildlife Service and Delaware Department of Natural Resources and Environmental Control, Wetlands Section.

United States Army Corps of Engineers, Environmental Laboratory. 1987. Corps of Engineers wetlands delineation manual. Waterways Experiment Station Technical Report Y-87-1.

United States Department of Agriculture, Natural Resources Conservation Service. National forestry manual. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/home/?cid=nrcs142p2 053374

United States Department of Agriculture, Natural Resources Conservation Service. National range and pasture handbook. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/landuse/rangepasture/?cid=stelprdb1043084

United States Department of Agriculture, Natural Resources Conservation Service. National soil survey handbook, title 430-VI. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/scientists/?cid=nrcs142p2_054242

United States Department of Agriculture, Natural Resources Conservation Service. 2006. Land resource regions and major land resource areas of the United States, the Caribbean, and the Pacific Basin. U.S. Department of Agriculture Handbook 296. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053624

United States Department of Agriculture, Soil Conservation Service. 1961. Land capability classification. U.S. Department of Agriculture Handbook 210. http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_052290.pdf



Ecological site R070BD005NM Deep Sand

Accessed: 08/11/2023

General information

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

Figure 1. Mapped extent

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

Table 1. Dominant plant species

Tree	Not specified
Shrub	Not specified
Herbaceous	Not specified

Physiographic features

This site occurs on terraces, Piedmonts, dunes fields, or upland plains. Parent material consists of eolian deposits and alluvium derived from sandstone. Slopes range from 0 to 15 percent, usually less than 5 percent. Low, stabilized hummocks or dunes frequently occur. Elevations range from 2,842 to 4,500 feet.

Table 2. Representative physiographic features

Landforms	(1) Dune(2) Parna dune(3) Terrace			
Flooding frequency	None			
Ponding frequency	None			
Elevation	2,842–4,500 ft			
Slope	0–15%			
Aspect	Aspect is not a significant factor			

Climatic features

The average annual precipitation ranges from 8 to 13 inches. Variations of 5 inches, more or less, are common. Over 80 percent of the precipitation falls from April through October. Most of the summer precipitation comes in the form of high intensity – short duration thunderstorms.

Temperatures are characterized by distinct seasonal changes and large annual and diurnal temperature changes. The average annual temperature is 61 degrees with extremes of 25 degrees below zero in the winter to 112 degrees in the summer.

The average frost-free season is 207 to 220 days. The last killing frost is in late March or early April, and the first killing frost is in late October or early November.

Both temperature and moisture favor warm season perennial plant growth. During years of abundant winter and early spring moisture, cool season growth and annual forbs, make up an important component of this site. Strong winds blow from the west from January through June, which accelerates soil drying during a critical period for cool

season plant growth.

Climate data was obtained from http://www.wrcc.sage.dri.edu/summary/climsmnm.html web site using 50% probability for freeze-free and frost-free seasons using 28.5 degrees F and 32.5 degrees F respectively.

Table 3. Representative climatic features

Frost-free period (average)	221 days
Freeze-free period (average)	240 days
Precipitation total (average)	13 in

Influencing water features

This site is not influenced from water from wetlands or streams.

Soil features

Soils are deep or very deep. Surface textures are sand loam, fine sand or loamy fine sand, Underlying material textures are loamy fine sand, fine sand, sand or fine sandy loam. Because of the coarse textures and rapid drying of the surface, the soil, if unprotected by plant cover and organic residue, becomes windblown and low hummocks or dunes are formed around shrubs.

Characteristic soils are:

Anthony

Aguena

Kermit

Likes

Pintura

Bluepoint

Table 4. Representative soil features

Surface texture	(1) Sand (2) Fine sand (3) Loamy fine sand				
Family particle size	(1) Sandy				
Drainage class	Well drained to excessively drained				
Permeability class	Moderate to very rapid				
Soil depth	60–72 in				
Surface fragment cover <=3"	0–5%				
Surface fragment cover >3"	0%				
Available water capacity (0-40in)	3–5 in				
Calcium carbonate equivalent (0-40in)	5–15%				
Electrical conductivity (0-40in)	0–4 mmhos/cm				
Sodium adsorption ratio (0-40in)	0–2				
Soil reaction (1:1 water) (0-40in)	6.6–7.8				

Subsurface fragment volume <=3" (Depth not specified)	5–10%
Subsurface fragment volume >3" (Depth not specified)	0%

Ecological dynamics

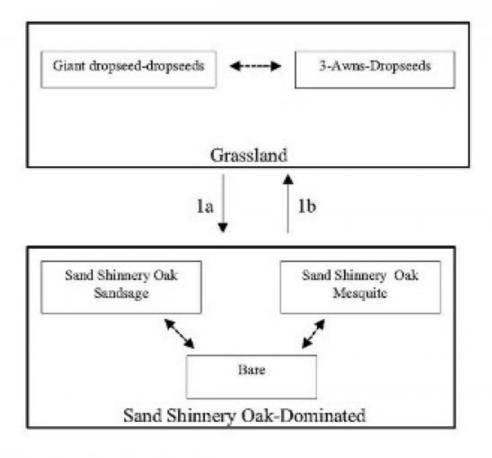
Overview

The Deep Sand site occurs adjacent to and/or intergraded with the Sandhills and Sandy sites (SD-3). The Deep Sand site can be distinguished by slopes less than eight percent (approximately five percent) and textural changes at depths greater than 40 inches. The Deep Sand site has well drained soils with a surface texture of sand or loamy fine sand. The Sandhills site has slopes greater than eight percent and textural depths greater than 60 inches. Conversely, the Sandy site has slopes less than five percent and depths to textural change commonly around 20 inches. The historic plant community of the Deep Sand site is dominated primarily by giant dropseed (*Sporobolus giganteus*) and other dropseeds (*S. flexuosus*, *S. contractus*, *S. cryptandrus*), with scattered shinnery oak (*Quercus havardii*) and soapweed yucca (*Yucca glauca*). Other herbaceous species include threeawns (Aristida spp.), bluestems (*Schizachyrium scoparium* and *Andropogon hallii*), and annual and perennial forbs distributed relative to precipitation occurrences. Bare ground and litter compose a significant proportion of ground cover while grasses are the remainder. Shinnery oak will increase with an associated decrease in dropseed and bluestem abundance possibly due to climatic change, fire suppression, interspecific competition, and excessive grazing. Continued grass cover loss may result in a transition to a shinnery oak dominated state with increases in sand sage (*Artemisia fillifolia*) and honey mesquite (*Prosopis glandulosa*). However, brush management may restore the grassland component and reverse the shinnery oak state back toward the historic plant community.

State and transition model

Plant Communities and Transitional Pathways (diagram)

MLRA-42, SD-3, Deep Sand



 a Climate, fire suppression, competition, over grazing

1.b Brush control, Prescribed grazing

State 1 Historic Climax Plant Community

Community 1.1 Historic Climax Plant Community

State Containing Historic Plant Community Grassland: The historic plant community is dominated by giant dropseed, other dropseeds, threeawns, and bluestems. Dominant woody plants include shinnery oak and soapweed yucca. Forb abundance and distribution varies and is dependent on annual rainfall. The Deep Sand site typically exists in sandy plains and dunes (Sosebee 1983). Grass dominance stabilizes the potentially erosive sandy soils. Historical fire suppression, however, may have contributed to increased woody plant abundance, which has reduced grass species. Further, drought conditions compounded with excessive grazing likely has driven most grass species out of competition with shrubs which has resulted in a shinnery oak dominated state with sand sage and mesquite (Young et al. 1948). Diagnosis: Grassland dominated by dropseeds, threeawns, and bluestems. Small shrubs, such as shinnery oak and soapweed yucca, and subshrubs are dispersed throughout the grassland. Other grasses that could appear on this site would include: flatsedge, almejita signalgrass, big bluestem, Indiangrass, fall witchgrass, hairy grama and red lovegrass Other shrubs include: fourwing saltbush, mesquite, ephedra and broom snakeweed. Other forbs include: wooly and scarlet gaura, wooly dalea, phlox heliotrope, scorpionweed, deerstongue, fleabane, nama, hoffmanseggia, lemon beebalm and stickleaf.

Table 5. Annual production by plant type

Plant Type	Low (Lb/Acre)	Representative Value (Lb/Acre)	
Grass/Grasslike	396	858	1320
Shrub/Vine	108	234	360
Forb	96	208	320
Total	600	1300	2000

Table 6. Ground cover

Tree foliar cover	0%
Shrub/vine/liana foliar cover	0%
Grass/grasslike foliar cover	15-20%
Forb foliar cover	0%
Non-vascular plants	0%
Biological crusts	0%
Litter	35-40%
Surface fragments >0.25" and <=3"	0%
Surface fragments >3"	0%
Bedrock	0%
Water	0%
Bare ground	35-40%

Figure 5. Plant community growth curve (percent production by month). NM2805, HCPC. SD-3 Deep Sand - Warm season plant community.

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0	0	3	5	10	10	25	30	12	5	0	0

State 2 Shinnery Oak Dominated

Community 2.1 Shinnery Oak Dominated



Shinnery Oak Dominated: This state is dominated by shinnery oak with subdominants of sand sage or mesquite. Bare ground is a significant component in this state as well. shinnery oak is characterized by dense stands in sandy soils; however, as clay percentage increases, shinnery oak decreases. Shinnery oak abundance and distribution increase with disturbances, such as excessive grazing and fire, due to an aggressive rhizome system. As shinnery oak abundance increases, an associated increase of mesquite, sand sage, and soapweed yucca also occurs. Shinnery oak's extensive root system allows the oak to competitively exclude grasses and forbs. Sand sage, however, stabilizes light sandy soils from wind erosion and can co-exist with herbaceous species by protecting them in heavily grazed conditions (Davis and Bonham 1979). Shinnery oak has been found primarily in very deep, excessively drained, and rapidly permeable soils. Shinnery oak is associated with landforms which are gently undulating to rolling uplands, very gently sloping to moderately steep slopes, and upland plains, alluvial fans and valley sideslopes. Shinnery oak and sand sage can be controlled with herbicide if applied in the spring with a subsequent rest from grazing (Herbel et al. 1979, Pettit 1986). In addition, repetitive seasons of goat browsing can also reduce shinnery oak abundance. Patches should be maintained during brush control, however, to prevent erosion and to provide wildlife cover and forage. Further, as shinnery oak and other shrubs increase, bare patches and erosion will increase due to a lack of herbaceous ground cover. Diagnosis: Shinnery oak dominated with subdominant sand sage, honey mesquite, and soapweed yucca with increasing frequency and size of bare patches. Transition to Shinnery oak dominated state (1a): The historic plant community begins to shift toward the shinnery oak dominated state as drivers such as climate change, fire suppression, interspecific competition, and excessive grazing contribute to alterations in soil properties and herbaceous cover. Cover loss and surface soil erosion are initial indicators of transition followed by an increase of shrub species abundance and bare patch expansion. Key indicators of approach to transition: • Loss of grass and forb cover • Surface soil erosion • Bare patch expansion • Increased shrub species abundance and composition Transition to Historic Plant Community (1b): The shinnery oak dominated state may transition back toward the historic plant community as new drivers are introduced such as prescribed grazing, brush control, and discontinued drought conditions.

Additional community tables

Table 7. Community 1.1 plant community composition

					Annual Production	Foliar Cover
- 0	Group	Common Name	Symbol	Scientific Name	(Lb/Acre)	(%)

1	Warm Season			450–585	
	spike dropseed	SPCO4	Sporobolus contractus	450–585	
	sand dropseed	SPCR	Sporobolus cryptandrus	450–585	
	mesa dropseed	SPFL2	Sporobolus flexuosus	450–585	
	giant dropseed	SPGI	Sporobolus giganteus	450–585	
2	Warm Season	SFGI	Sporobolus giganteus	65–104	
	sand bluestem	ANHA	Andreas and hellii	65–104	
			Andropogon hallii	+	
	little bluestem	SCSC	Schizachyrium scoparium	65–104	
3	Warm Season	1.00		39–91	
	threeawn	ARIST	Aristida	39–91	
4	Warm Season		T	13–39	
	thin paspalum	PASE5	Paspalum setaceum	13–39	
5	Warm Season		T	13–39	
	black grama	BOER4	Bouteloua eriopoda	13–39	
6	Warm Season			13–39	
	mat sandbur	CELO3	Cenchrus longispinus	13–39	
7	Warm Season			13–39	
	Havard's panicgrass	PAHA2	Panicum havardii	13–39	
8	Warm Season			13–65	
	plains bristlegrass	SEVU2	Setaria vulpiseta	13–65	
9	Other Annual Grasses	_		13–65	
	Grass, annual	2GA	Grass, annual	13–65	
Shru	ıb/Vine	<u>-</u>			
10	Shrub			65–130	
	Havard oak	QUHA3	Quercus havardii	65–130	
11	Shrub	·		13–39	
	sand sagebrush	ARFI2	Artemisia filifolia	13–39	
12	Shrub		l	65–130	
	yucca	YUCCA	Yucca	65–130	
13	Shrub	<u> </u>	<u> </u>	13–39	
	rabbitbrush	CHRYS9	Chrysothamnus	13–39	
14	Other Shrubs		, , , , , , ,	13–39	
	Shrub (>.5m)	2SHRUB	Shrub (>.5m)	13–39	
Forb	<u> </u>	1201102	Children (10mg	1	
15	Forb			39–91	
-	croton	CROTO	Croton	39–91	
	Indian blanket	GAPU	Gaillardia pulchella	39–91	
16	Forb	John	Camaraia paiori o lia	39–91	
10		ASTER	Aster	39–91	
	aster				
	whitest evening primrose	OEAL	Oenothera albicaulis	39–91	
	beardtongue	PENST	Penstemon	39–91	
17	Forb			39–91	

		1	p		
	buckwheat	ERIOG	Eriogonum	39–91	-
	sunflower	HELIA3	Helianthus	39–91	1
	spiny false fiddleleaf	HYSP	Hydrolea spinosa	39–91	-
	threadleaf ragwort	SEFLF	Senecio flaccidus var. flaccidus	39–91	_
18	Other Forbs			13–65	
	Forb (herbaceous, not grass nor grass-like)	2FORB	Forb (herbaceous, not grass nor grass-like)	13–65	_

Animal community

This site provides habitat which supports a resident animal population characterized by pronghorn, antelope, black-tailed jackrabbit, spotted ground squirrel, Ord's kangaroo rat, northern grasshopper mouse, southern plains woodrat, badger, meadowlark, roadrunner, white-necked raven, cactus wren, lesser prairie chicken, morning dove, scaled quail, Harris hawk, side blotched lizard, marbled whiptail, Texas horned lizard, western diamondback rattlesnake and ornate box turtle. In the area called Mescalero Sands, there are white-tailed and mule deer.

Hydrological functions

The runoff curve numbers are determined by field investigations using hydraulic cover conditions and hydrologic soil groups.

Hydrologic Interpretations Soil Series Hydrologic Group

Anthony B

Bluepoint A

Kermit A

Aguena A

Likes A

Pintura A

Recreational uses

This site offers limited recreation potential for hiking, horseback riding, nature observation and photography; game bird, predator, antelope, and deer hunting.

Wood products

This site has no potential for wood products.

Other products

This site is suitable for grazing by all kinds and classes of livestock during all seasons of the year. Shinnery oak is toxic in the late bud or early leaf stage. Shinnery oak will increase, as will sand sagebrush following drought. Changes in the fire return interval have also favored an increase in shrub cover. The dropseeds and bluestem will decrease. This site responds very well to brush manangement and deferment. This site is well suited to a grazing system that rotates the season of use. Nesting habitat for lesser prairie chicken can be improved by providing residual cover that is at least 14 inches high.

Other information

Guide to Suggested Initial Stocking Rate Acres per Animal Unit Month

Similarity Index Ac/AUM 100 - 76 2.0 - 3.8 75 - 51 3.0 - 6.0 50 – 26 5.0 – 10.0 25 – 0 10.1 +

Inventory data references

Other References:

Data collection for this site was done in conjunction with the progressive soil surveys within the Southern Desertic Basins, Plains and Mountains, Major Land Resource Areas of New Mexico. This site has been mapped and correlated with soils in the following soil surveys. Eddy County, Lea County, and Chaves County.

Other references

Literature Cited

Davis, Joseph H., III and Bonham, Charles D. 1979. Interference of sand sagebrush canopy with needleandthread. Journal of Range Management 32(5):384-386.

Herbel, C. H, Steger, R, Gould, W. L. 1974. Managing semidesert ranges of the Southwest. Circular 456. Las Cruces, NM: New Mexico State University, Cooperative Extension Service. 48 p.

Pettit, Russell D. 1986. Sand shinnery oak: control and management. Management Note 8. Lubbock, TX: Texas Tech University, College of Agricultural Sciences, Department of Range and Wildlife Management. 5 p.

Sosebee, Ronald E. 1983. Physiological, phenological, and environmental considerations in brush and weed control. In: McDaniel, Kirk C., ed. Proceedings--brush management symposium; 1983 February 16; Albuquerque, NM. Denver, CO: Society for Range Management: 27-43.

Young, Vernon A., Anderwald, Frank R., McCully, Wayne G. 1948. Brush problems on Texas ranges. Miscellaneous Publication 21. College Station, TX: Texas Agricultural Experiment Station. 19 p.

Contributors

Don Sylvester Quinn Hodgson

Rangeland health reference sheet

Interpreting Indicators of Rangeland Health is a qualitative assessment protocol used to determine ecosystem condition based on benchmark characteristics described in the Reference Sheet. A suite of 17 (or more) indicators are typically considered in an assessment. The ecological site(s) representative of an assessment location must be known prior to applying the protocol and must be verified based on soils and climate. Current plant community cannot be used to identify the ecological site.

Author(s)/participant(s)	
Contact for lead author	
Date	
Approved by	
Approval date	
Composition (Indicators 10 and 12) based on	Annual Production

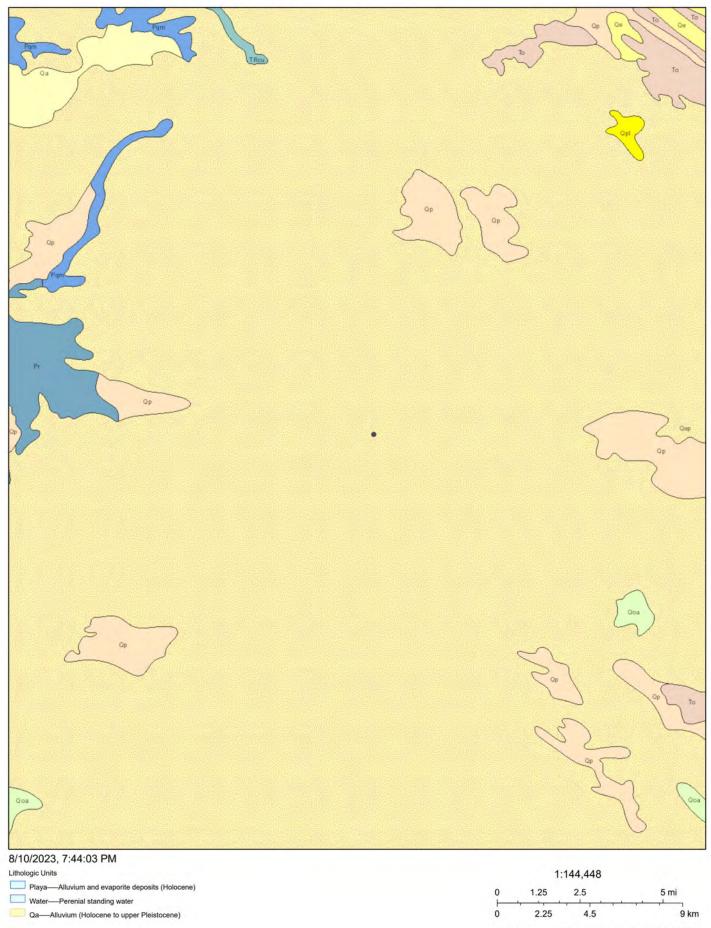
Indicators

1. Number and extent of rills:

2.	Presence of water flow patterns:
3.	Number and height of erosional pedestals or terracettes:
4.	Bare ground from Ecological Site Description or other studies (rock, litter, lichen, moss, plant canopy are not bare ground):
5.	Number of gullies and erosion associated with gullies:
6.	Extent of wind scoured, blowouts and/or depositional areas:
7.	Amount of litter movement (describe size and distance expected to travel):
8.	Soil surface (top few mm) resistance to erosion (stability values are averages - most sites will show a range of values):
9.	Soil surface structure and SOM content (include type of structure and A-horizon color and thickness):
10.	Effect of community phase composition (relative proportion of different functional groups) and spatial distribution on infiltration and runoff:
11.	Presence and thickness of compaction layer (usually none; describe soil profile features which may be mistaken for compaction on this site):
12.	Functional/Structural Groups (list in order of descending dominance by above-ground annual-production or live foliar cover using symbols: >>, >, = to indicate much greater than, greater than, and equal to):
	Dominant:
	Sub-dominant:
	Other:
	Additional:

13. Amount of plant mortality and decadence (include which functional groups are expected to show mortality or

ecei	ved by OCD: 6/26/2024 3:34:52 PM	Page 78 of
	decadence):	
14.	Average percent litter cover (%) and depth (in):	
15.	Expected annual annual-production (this is TOTAL above-ground annual-production, not just forage a production):	annual-
16.	Potential invasive (including noxious) species (native and non-native). List species which BOTH charadegraded states and have the potential to become a dominant or co-dominant species on the ecologic their future establishment and growth is not actively controlled by management interventions. Species become dominant for only one to several years (e.g., short-term response to drought or wildfire) are reinvasive plants. Note that unlike other indicators, we are describing what is NOT expected in the refer for the ecological site:	cal site if s that not
17.	Perennial plant reproductive capability:	



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

APPENDIX C – Daily Field and Sampling Reports



Client:	Devon Energy Corporation	Inspection Date:	2/1/2022
Site Location Name:	Stray Cat 8 5 Federal Com #214H	Report Run Date:	2/2/2022 1:01 PM
Client Contact Name:	Wes Matthews	API #:	
Client Contact Phone #:	(575) 748-0176		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	
		Summary of ¹	Times
Arrived at Site	2/1/2022 10:00 AM		
Departed Site			
		Field Not	05

- 15:19 Arrived on site to delineate spill area with horizontal and vertical sampling.
- **15:19** Spill very visible, outlined for future visit in white paint. Existing white flags were on site upon arrival.
- **15:20** Upon vertical delineation, discovery of pad to be approximately 6-8" of thick caliche dirt with sand directly underneath.
- 15:21 Contaminant does not seem to penetrate completely through the pad as seen in sampling results.
- **15:22** Spill occurred on Stray Cat 8 CTB 2 pad, C-141 created incorrectly. Notes and DFR recorded to the Stray Cat 8 5 Fed Com 214H.

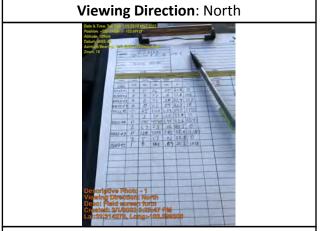
Next Steps & Recommendations

- 1 Recommend hand crew for hand digging between treaters. However, the congestion of pipes and equipment will make hand digging extremely difficult to do and may need deferral in this area as to not effect structural integrity of equipment.
- 2 Send delineation samples to lab.





Site Photos



Field screen form



Middle of spill area



Middle of spill area



Eastern spill toe





Northeastern corner of spill



BH22-06 sample location middle of spill area



BH22-07 location on Southern end



BH22-05 sample location near middle of equipment on North side





BH22-04 sample location on North side of flow lines



BH22-03 sample location on East side of spill



BH22-02 sample location on South end of spill

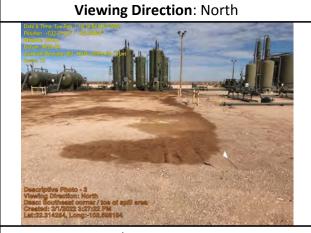


CST Berger line finder used for blind sweep in sampling areas

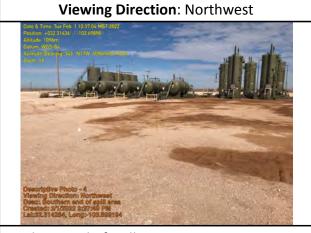




BH22-01 sample location on west side of spill area



Southeast corner / toe of spill area



Southern end of spill area



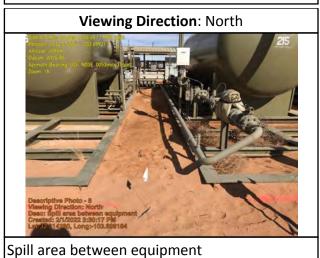
Western side of spill area South of equipment





Viewing Direction: East

Spill area



Viewing Direction: North

Spill area between equipment



Spill area



Daily Site Visit Signature

Inspector: Austin Harris

Signature:



Client:	Devon Energy Corporation	Inspection Date:	4/6/2022
Site Location Name:	Stray Cat 8 5 Federal Com #214H	Report Run Date:	4/6/2022 9:52 PM
Client Contact Name:	Wes Matthews	API #:	
Client Contact Phone #:	(575) 748-0176		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	
		Summary of	Times
Arrived at Site	4/6/2022 8:20 AM		
Departed Site	4/6/2022 1:15 PM		
			

Field Notes

- **9:52** Arrived on site to collect base and wall samples in the excavation. Also to collect samples between the separators. Dirt crew on site to excavate in case BES22-09 and BES22-10 are still hot.
- **10:23** BH22-10 and BH22-11 that were collected between the separators are hot on chlorides. WES22-10 which is against the flowline from the separator on the west side is also slightly hot. WES22-01 that is against the above ground pipelines on the north side is slightly hot on chlorides.
- 12:48 WES22-10 and BH22-10 through BH22-11 were hot on PetroFlag.
- **12:49** The areas that appear to be still above criteria are the west and north walls near the separator and flow lines. Everything else is clean on field screening.

Next Steps & Recommendations

1 Send collected samples to lab and send results to the client.



Site Photos

Viewing Direction: North



Sample area for WES22-01 and BES22-09 against the above ground pipelines

Viewing Direction: North



Sample area for BH22-10 between separators 214 and 215

Viewing Direction: Northwest



Sample area for WES22-10 against the separator

Viewing Direction: North



Sample area for BH22-11 between separators 215 and 216





Sample area for WES22-02



Sample area for BES22-10 and WES22-03 through WES22-04



Sample area for WES22-04



Sample area for WES22-05 through WES22-06





Sample area for BES22-06 through BES22-08



Sample area for WES22-07



Sample area for WES22-08



Sample area for WES22-09 against the separator flowline



Daily Site Visit Signature

Inspector: Chance Dixon

Signature:



Client:	Devon Energy Corporation	Inspection Date:	4/27/2022
Site Location Name:	Stray Cat 8 CTB 2	Report Run Date:	5/4/2022 8:20 PM
Client Contact Name:	Wes Matthews	API #:	
Client Contact Phone #:	(575) 748-0176	_	
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	
		Summary of	Times
Arrived at Site	4/27/2022 8:36 AM		
Departed Site	4/27/2022 7:03 PM		

Field Notes

- 9:02 Complete confirmation sampling of excavation area
- 9:03 Excavation below separators is unsafe and should wait until end of life phase of location
- **10:30** Wall samples collected along where equipment is located. Field screening to be used to determine how high levels still are followed by labs.
- **10:31** Placement of equipment and piping is too tight and in operation for excavation to occur. Surface scraping has taken place to remove top layer of contamination but the weight and size of equipment hinders the removal of any further excavation below the equipment
- 19:05 Depth to groundwater well to support conditional approval or deferral for area under tanks.

Next Steps & Recommendations

- 1 Wait for labs
- 2 Request conditional approval



Site Photos



Excavation area



Viewing Direction: East

Descriptive Photo - 10
Viewing Direction: E

Descriptive Photo - 10
Lat: 22.51 44.55

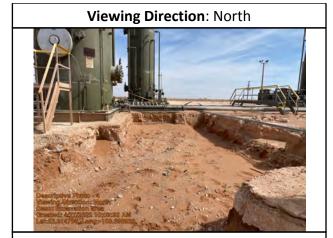
Lat: 22.5

Piping



Excavation area





Excavation area



Excavation area



Equipment



Equipment









Equipment



Daily Site Visit Signature

Inspector: Monica Peppin

Signature:

Page 5 of 5

APPENDIX D – Notification



Dhugal Hanton <vertexresourcegroupusa@gmail.com>

nAPP2129847651 Stray Cat 8 5 Federal Com 214H Confirmatory Sampling

4 messages

Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Mon, Apr 25, 2022 at 7:48 AM

To: EMNRD-OCD-District1spills <emnrd-ocd-district1spills@state.nm.us>, "CFO_Spill, BLM_NM" <blm_nm_cfo_spill@blm.gov>

All,

Please accept this email as 48-hr notification that Vertex Resource Services has scheduled confirmatory sampling to be conducted for the following releases:

nAPP2129847651 DOR: 2/19/22 Site Name: Stray Cat 8 5 Federal Com #214H

This work will be completed on behalf of Devon Energy Production Company.

On Wednesday, April 27, 2022 at approximately 10:00 a.m., Monica Peppin will be on site to conduct confirmatory sampling. She can be reached at 575-361-9880. If you need directions to the site, please do not hesitate to contact her.

Thank you,

Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>

Mon, Apr 25, 2022 at 10:22 AM

To: Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Cc: "Bratcher, Mike, EMNRD" <mike.bratcher@state.nm.us>, "Nobui, Jennifer, EMNRD" <Jennifer.Nobui@state.nm.us>

Monica,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Robert Hamlet • Environmental Specialist - Advanced

Environmental Bureau

EMNRD - Oil Conservation Division

811 S. First Street | Artesia, NM 88210

575.909.0302 | robert.hamlet@state.nm.us

http://www.emnrd.state.nm.us/OCD/



From: Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Sent: Monday, April 25, 2022 7:49 AM

To: EMNRD-OCD-District1spills <EMNRD-OCD-District1spills@state.nm.us>; CFO_Spill, BLM_NM <blm_nm_cfo_spill@blm.gov>

Subject: [EXTERNAL] nAPP2129847651 Stray Cat 8 5 Federal Com 214H Confirmatory Sampling

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

[Quoted text hidden]

Dhugal Hanton vertexresourcegroupusa@gmail.com>

To: smcarty@vertex.ca

[Quoted text hidden]

Mail Delivery Subsystem <mailer-daemon@googlemail.com>

To: vertexresourcegroupusa@gmail.com

Fri, Aug 4, 2023 at 4:21 PM

Fri, Aug 4, 2023 at 4:21 PM



Message blocked

Your message to **smcarty@vertex.ca** has been blocked. See technical details below for more information.

The response from the remote server was:

550 5.4.1 Recipient address rejected: Access denied. AS(201806281) [YT3CAN01FT023.eop-CAN01.prod.protection.outlook.com 2023-08-04T22:21:27.453Z 08DB95059213A32E]

Final-Recipient: rfc822; smcarty@vertex.ca

Action: failed Status: 5.4.1

Remote-MTA: dns; vertex-ca.mail.protection.outlook.com. (104.47.75.164, the

server for the domain vertex.ca.)

Diagnostic-Code: smtp; 550 5.4.1 Recipient address rejected: Access denied. AS(201806281) [YT3CAN01FT023.eop-CAN01.prod.protection.outlook.com 2023-

08-04T22:21:27.453Z 08DB95059213A32E1

Last-Attempt-Date: Fri, 04 Aug 2023 15:21:27 -0700 (PDT)

----- Forwarded message -----

From: Dhugal Hanton <vertexresourcegroupusa@gmail.com>

To: smcarty@vertex.ca

Cc: Bcc:

Date: Fri, 4 Aug 2023 16:21:15 -0600

Subject: Fwd: nAPP2129847651 Stray Cat 8 5 Federal Com 214H Confirmatory Sampling

----- Forwarded message ------

From: Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Date: Mon, Apr 25, 2022 at 7:48 AM

Subject: nAPP2129847651 Stray Cat 8 5 Federal Com 214H Confirmatory Sampling

To: EMNRD-OCD-District1spills <emnrd-ocd-district1spills@state.nm.us>, CFO Spill, BLM NM <blm nm cfo spill@blm.gov>

All,

Please accept this email as 48-hr notification that Vertex Resource Services has scheduled confirmatory sampling to be conducted for the following releases:

nAPP2129847651 DOR: 2/19/22 Site Name: Stray Cat 8 5 Federal Com #214H

This work will be completed on behalf of Devon Energy Production Company.

On Wednesday, April 27, 2022 at approximately 10:00 a.m., Monica Peppin will be on site to conduct confirmatory sampling. She can be reached at 575-361-9880. If you need directions to the site, please do not hesitate to contact her.

Thank you,

APPENDIX E – Laboratory Data Reports and Chain of Custody Forms



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

February 10, 2022

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

FAX:

RE: Stray Cat 8 5 Fed Com 214H OrderNo.: 2202151

Dear Brandon Schafer:

Hall Environmental Analysis Laboratory received 11 sample(s) on 2/3/2022 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 don't hesitate to contact HEAL for any additional information or clarifications.

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report Lab Order 2202151

Date Reported: 2/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-01 0.0

 Project:
 Stray Cat 8 5 Fed Com 214H
 Collection Date: 2/1/2022 12:00:00 PM

 Lab ID:
 2202151-001
 Matrix: SOIL
 Received Date: 2/3/2022 1:27:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	2/7/2022 1:43:23 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	2/7/2022 1:43:23 PM
Surr: DNOP	108	51.1-141	%Rec	1	2/7/2022 1:43:23 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	2/5/2022 1:53:00 PM
Surr: BFB	98.0	70-130	%Rec	1	2/5/2022 1:53:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	2/5/2022 1:53:00 PM
Toluene	ND	0.048	mg/Kg	1	2/5/2022 1:53:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	2/5/2022 1:53:00 PM
Xylenes, Total	ND	0.096	mg/Kg	1	2/5/2022 1:53:00 PM
Surr: 4-Bromofluorobenzene	91.7	70-130	%Rec	1	2/5/2022 1:53:00 PM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	ND	60	mg/Kg	20	2/7/2022 1:07:37 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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 15

Analytical Report Lab Order 2202151

Date Reported: 2/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-02 0.0

 Project:
 Stray Cat 8 5 Fed Com 214H
 Collection Date: 2/1/2022 12:10:00 PM

 Lab ID:
 2202151-002
 Matrix: SOIL
 Received Date: 2/3/2022 1:27:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: SB
Diesel Range Organics (DRO)	31	9.8	mg/Kg	1	2/7/2022 1:53:56 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	2/7/2022 1:53:56 PM
Surr: DNOP	107	51.1-141	%Rec	1	2/7/2022 1:53:56 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	2/5/2022 2:51:00 PM
Surr: BFB	95.3	70-130	%Rec	1	2/5/2022 2:51:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	2/5/2022 2:51:00 PM
Toluene	ND	0.048	mg/Kg	1	2/5/2022 2:51:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	2/5/2022 2:51:00 PM
Xylenes, Total	ND	0.097	mg/Kg	1	2/5/2022 2:51:00 PM
Surr: 4-Bromofluorobenzene	90.0	70-130	%Rec	1	2/5/2022 2:51:00 PM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	110	60	mg/Kg	20	2/7/2022 1:20:01 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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 15

Analytical Report Lab Order 2202151

Date Reported: 2/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-03 0.0

 Project:
 Stray Cat 8 5 Fed Com 214H
 Collection Date: 2/1/2022 12:20:00 PM

 Lab ID:
 2202151-003
 Matrix: SOIL
 Received Date: 2/3/2022 1:27:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst: SB
Diesel Range Organics (DRO)	89	9.9	mg/Kg	1	2/7/2022 2:04:30 PM
Motor Oil Range Organics (MRO)	110	49	mg/Kg	1	2/7/2022 2:04:30 PM
Surr: DNOP	133	51.1-141	%Rec	1	2/7/2022 2:04:30 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	2/5/2022 3:50:00 PM
Surr: BFB	97.0	70-130	%Rec	1	2/5/2022 3:50:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	2/5/2022 3:50:00 PM
Toluene	ND	0.049	mg/Kg	1	2/5/2022 3:50:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	2/5/2022 3:50:00 PM
Xylenes, Total	ND	0.098	mg/Kg	1	2/5/2022 3:50:00 PM
Surr: 4-Bromofluorobenzene	87.3	70-130	%Rec	1	2/5/2022 3:50:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	320	61	mg/Kg	20	2/8/2022 10:32:33 AM

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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 3 of 15

Date Reported: 2/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-04 0.0

 Project:
 Stray Cat 8 5 Fed Com 214H
 Collection Date: 2/1/2022 12:30:00 PM

 Lab ID:
 2202151-004
 Matrix: SOIL
 Received Date: 2/3/2022 1:27:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	2/7/2022 2:15:04 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	2/7/2022 2:15:04 PM
Surr: DNOP	106	51.1-141	%Rec	1	2/7/2022 2:15:04 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	2/5/2022 4:10:00 PM
Surr: BFB	99.2	70-130	%Rec	1	2/5/2022 4:10:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	2/5/2022 4:10:00 PM
Toluene	ND	0.047	mg/Kg	1	2/5/2022 4:10:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	2/5/2022 4:10:00 PM
Xylenes, Total	ND	0.095	mg/Kg	1	2/5/2022 4:10:00 PM
Surr: 4-Bromofluorobenzene	91.4	70-130	%Rec	1	2/5/2022 4:10:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	2/8/2022 10:44:58 AM

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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 15

Date Reported: 2/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-05 0.0

 Project:
 Stray Cat 8 5 Fed Com 214H
 Collection Date: 2/1/2022 1:00:00 PM

 Lab ID:
 2202151-005
 Matrix: SOIL
 Received Date: 2/3/2022 1:27:00 PM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst: SB
Diesel Range Organics (DRO)	2800	99		mg/Kg	10	2/7/2022 5:31:51 PM
Motor Oil Range Organics (MRO)	1200	490		mg/Kg	10	2/7/2022 5:31:51 PM
Surr: DNOP	0	51.1-141	S	%Rec	10	2/7/2022 5:31:51 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	2/5/2022 4:29:00 PM
Surr: BFB	121	70-130		%Rec	5	2/5/2022 4:29:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	2/5/2022 4:29:00 PM
Toluene	ND	0.24		mg/Kg	5	2/5/2022 4:29:00 PM
Ethylbenzene	ND	0.24		mg/Kg	5	2/5/2022 4:29:00 PM
Xylenes, Total	ND	0.48		mg/Kg	5	2/5/2022 4:29:00 PM
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	5	2/5/2022 4:29:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	2200	60		mg/Kg	20	2/8/2022 10:57:23 AM

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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 15

Date Reported: 2/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-05 1.0

 Project:
 Stray Cat 8 5 Fed Com 214H
 Collection Date: 2/1/2022 1:10:00 PM

 Lab ID:
 2202151-006
 Matrix: SOIL
 Received Date: 2/3/2022 1:27:00 PM

Analyses	Result	RL Qu	ıal Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: SB
Diesel Range Organics (DRO)	270	9.6	mg/Kg	1	2/7/2022 6:14:14 PM
Motor Oil Range Organics (MRO)	100	48	mg/Kg	1	2/7/2022 6:14:14 PM
Surr: DNOP	88.8	51.1-141	%Rec	1	2/7/2022 6:14:14 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	24	mg/Kg	5	2/5/2022 4:49:00 PM
Surr: BFB	110	70-130	%Rec	5	2/5/2022 4:49:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.12	mg/Kg	5	2/5/2022 4:49:00 PM
Toluene	ND	0.24	mg/Kg	5	2/5/2022 4:49:00 PM
Ethylbenzene	ND	0.24	mg/Kg	5	2/5/2022 4:49:00 PM
Xylenes, Total	ND	0.47	mg/Kg	5	2/5/2022 4:49:00 PM
Surr: 4-Bromofluorobenzene	95.8	70-130	%Rec	5	2/5/2022 4:49:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	850	60	mg/Kg	20	2/8/2022 11:09:47 AM

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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 6 of 15

Date Reported: 2/10/2022

2/8/2022 11:22:12 AM

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-05 2.0

 Project:
 Stray Cat 8 5 Fed Com 214H
 Collection Date: 2/1/2022 1:30:00 PM

 Lab ID:
 2202151-007
 Matrix: SOIL
 Received Date: 2/3/2022 1:27:00 PM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) ND 9.3 mg/Kg 1 2/7/2022 2:57:31 PM Motor Oil Range Organics (MRO) ND 46 mg/Kg 1 2/7/2022 2:57:31 PM Surr: DNOP 92.1 51.1-141 %Rec 1 2/7/2022 2:57:31 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 2/5/2022 5:09:00 PM 5.0 mg/Kg 1 Surr: BFB 100 70-130 %Rec 1 2/5/2022 5:09:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 2/5/2022 5:09:00 PM 0.025 mg/Kg 1 Toluene ND 0.050 mg/Kg 1 2/5/2022 5:09:00 PM Ethylbenzene ND 0.050 mg/Kg 1 2/5/2022 5:09:00 PM Xylenes, Total ND 0.10 mg/Kg 1 2/5/2022 5:09:00 PM 2/5/2022 5:09:00 PM Surr: 4-Bromofluorobenzene 93.7 70-130 %Rec 1 **EPA METHOD 300.0: ANIONS** Analyst: JMT

ND

60

ma/Ka

20

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

Qualifiers:

Chloride

- 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 range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 7 of 15

Analytical Report

Lab Order 2202151

Date Reported: 2/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-06 0.0

 Project:
 Stray Cat 8 5 Fed Com 214H
 Collection Date: 2/1/2022 2:00:00 PM

 Lab ID:
 2202151-008
 Matrix: SOIL
 Received Date: 2/3/2022 1:27:00 PM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS					Analyst: SB
Diesel Range Organics (DRO)	4900	190		mg/Kg	20	2/7/2022 5:42:34 PM
Motor Oil Range Organics (MRO)	1300	950		mg/Kg	20	2/7/2022 5:42:34 PM
Surr: DNOP	0	51.1-141	S	%Rec	20	2/7/2022 5:42:34 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	140	25		mg/Kg	5	2/5/2022 5:28:00 PM
Surr: BFB	197	70-130	S	%Rec	5	2/5/2022 5:28:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	2/5/2022 5:28:00 PM
Toluene	ND	0.25		mg/Kg	5	2/5/2022 5:28:00 PM
Ethylbenzene	0.45	0.25		mg/Kg	5	2/5/2022 5:28:00 PM
Xylenes, Total	3.7	0.50		mg/Kg	5	2/5/2022 5:28:00 PM
Surr: 4-Bromofluorobenzene	145	70-130	S	%Rec	5	2/5/2022 5:28:00 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	8600	300		mg/Kg	100	2/10/2022 4:42:57 AM

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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 8 of 15

Date Reported: 2/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-06 2.0

 Project:
 Stray Cat 8 5 Fed Com 214H
 Collection Date: 2/1/2022 2:10:00 PM

 Lab ID:
 2202151-009
 Matrix: SOIL
 Received Date: 2/3/2022 1:27:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	2/7/2022 3:29:22 PM
Motor Oil Range Organics (MRO)	68	48	mg/Kg	1	2/7/2022 3:29:22 PM
Surr: DNOP	111	51.1-141	%Rec	1	2/7/2022 3:29:22 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	2/5/2022 5:48:00 PM
Surr: BFB	99.0	70-130	%Rec	1	2/5/2022 5:48:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.023	mg/Kg	1	2/5/2022 5:48:00 PM
Toluene	ND	0.047	mg/Kg	1	2/5/2022 5:48:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	2/5/2022 5:48:00 PM
Xylenes, Total	ND	0.094	mg/Kg	1	2/5/2022 5:48:00 PM
Surr: 4-Bromofluorobenzene	87.3	70-130	%Rec	1	2/5/2022 5:48:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	2/8/2022 11:47:03 AM

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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 9 of 15

Date Reported: 2/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-07 0.0

 Project:
 Stray Cat 8 5 Fed Com 214H
 Collection Date: 2/1/2022 2:30:00 PM

 Lab ID:
 2202151-010
 Matrix: SOIL
 Received Date: 2/3/2022 1:27:00 PM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst: SB
Diesel Range Organics (DRO)	6100	97		mg/Kg	10	2/7/2022 4:27:12 PM
Motor Oil Range Organics (MRO)	2400	480		mg/Kg	10	2/7/2022 4:27:12 PM
Surr: DNOP	0	51.1-141	S	%Rec	10	2/7/2022 4:27:12 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	65	24		mg/Kg	5	2/5/2022 6:08:00 PM
Surr: BFB	150	70-130	S	%Rec	5	2/5/2022 6:08:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	2/5/2022 6:08:00 PM
Toluene	ND	0.24		mg/Kg	5	2/5/2022 6:08:00 PM
Ethylbenzene	ND	0.24		mg/Kg	5	2/5/2022 6:08:00 PM
Xylenes, Total	0.51	0.48		mg/Kg	5	2/5/2022 6:08:00 PM
Surr: 4-Bromofluorobenzene	117	70-130		%Rec	5	2/5/2022 6:08:00 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	13000	600		mg/Kg	200	2/10/2022 4:55:21 AM

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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 10 of 15

Date Reported: 2/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-07 2.0

 Project:
 Stray Cat 8 5 Fed Com 214H
 Collection Date: 2/1/2022 2:50:00 PM

 Lab ID:
 2202151-011
 Matrix: SOIL
 Received Date: 2/3/2022 1:27:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	2/7/2022 4:38:00 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	2/7/2022 4:38:00 PM
Surr: DNOP	100	51.1-141	%Rec	1	2/7/2022 4:38:00 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	2/5/2022 7:06:00 PM
Surr: BFB	92.6	70-130	%Rec	1	2/5/2022 7:06:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	2/5/2022 7:06:00 PM
Toluene	ND	0.047	mg/Kg	1	2/5/2022 7:06:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	2/5/2022 7:06:00 PM
Xylenes, Total	ND	0.094	mg/Kg	1	2/5/2022 7:06:00 PM
Surr: 4-Bromofluorobenzene	85.4	70-130	%Rec	1	2/5/2022 7:06:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	59	mg/Kg	20	2/8/2022 12:36:41 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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 11 of 15

Hall Environmental Analysis Laboratory, Inc.

WO#: **2202151** *10-Feb-22*

Client: Vertex Resources Services, Inc.

Project: Stray Cat 8 5 Fed Com 214H

Sample ID: MB-65398 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 65398 RunNo: 85658

Prep Date: 2/7/2022 Analysis Date: 2/7/2022 SeqNo: 3015610 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-65398 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 65398 RunNo: 85658

Prep Date: 2/7/2022 Analysis Date: 2/7/2022 SeqNo: 3015611 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 94.5 90 110

Sample ID: MB-65421 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 65421 RunNo: 85698

Prep Date: 2/8/2022 Analysis Date: 2/8/2022 SeqNo: 3017133 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-65421 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 65421 RunNo: 85698

Prep Date: 2/8/2022 Analysis Date: 2/8/2022 SeqNo: 3017134 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 95.8 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 range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 12 of 15

Hall Environmental Analysis Laboratory, Inc.

WO#: **2202151**

10-Feb-22

Client: Vertex Resources Services, Inc.

Project: Stray Cat 8 5 Fed Com 214H

Sample ID: LCS-65386 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS Batch ID: 65386 RunNo: 85650

Prep Date: 2/4/2022 Analysis Date: 2/7/2022 SeqNo: 3015345 Units: mg/Kg

PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual Diesel Range Organics (DRO) 10 0 45 50.00 91.0 68.9 135 Surr: DNOP 4.4 5.000 87.4 51.1 141

Sample ID: MB-65386 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 65386 RunNo: 85650

Prep Date: 2/4/2022 Analysis Date: 2/7/2022 SeqNo: 3015346 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO) ND 10

Diesel Range Organics (DRO) ND 10

Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 10 10.00 102 51.1 141

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 range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 13 of 15

Hall Environmental Analysis Laboratory, Inc.

WO#: 2202151 10-Feb-22

Client: Vertex Resources Services, Inc. **Project:** Stray Cat 8 5 Fed Com 214H

Sample ID: mb-65380 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 65380 RunNo: 85645

Prep Date: 2/4/2022 Analysis Date: 2/5/2022 SeqNo: 3015107 Units: mq/Kq

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 990 1000 99.3 70 130

Sample ID: Ics-65380 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 65380 RunNo: 85645

Prep Date: 2/4/2022 Analysis Date: 2/5/2022 SeqNo: 3015108 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 5.0 25.00 O 115 78.6 131 Surr: BFB 1300

127

70

130

Sample ID: 2202151-001ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range

1000

Client ID: BH22-01 0.0 Batch ID: 65380 RunNo: 85645

Prep Date: 2/4/2022 Analysis Date: 2/5/2022 SeqNo: 3015110 Units: mg/Kg

Result SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte PQL LowLimit Qual Gasoline Range Organics (GRO) 29 4.9 24.34 0 117 70 130 Surr: BFB 1100 973.7 110 70 130

TestCode: EPA Method 8015D: Gasoline Range Sample ID: 2202151-001amsd SampType: MSD

Client ID: BH22-01 0.0 Batch ID: 65380 RunNo: 85645

Prep Date: 2/4/2022 Analysis Date: 2/5/2022 SeqNo: 3015111 Units: mg/Kg

Result SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** PQL LowLimit Qual Gasoline Range Organics (GRO) 26 4.9 24.27 107 70 9.55 130 20 Surr: BFB 1100 970.9 111 70 130 0 0

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference
- Analyte detected in the associated Method Blank
- Estimated value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Page 14 of 15

Hall Environmental Analysis Laboratory, Inc.

WO#: **2202151**

10-Feb-22

Client: Vertex Resources Services, Inc.

Project: Stray Cat 8 5 Fed Com 214H

Sample ID: mb-65380 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 65380 RunNo: 85645

Prep Date: 2/4/2022 Analysis Date: 2/5/2022 SeqNo: 3015134 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
 0.93
 1.000
 92.7
 70
 130

Sample ID: Ics-65380 SampType: LCS TestCode: EPA Method 8021B: Volatiles
Client ID: LCSS Batch ID: 65380 RunNo: 85645

Analysis Date: 2/5/2022 SeqNo: 3015135 Prep Date: 2/4/2022 Units: mg/Kg Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 1.000 1.0 0.025 0 100 80 120 Benzene Toluene 0.98 0.050 1.000 0 98.0 80 120 0 99.1 80 0.99 0.050 1.000 120 Ethylbenzene 0 97.8 Xylenes, Total 2.9 0.10 3.000 80 120 0.92 Surr: 4-Bromofluorobenzene 1.000 92.3 70 130

Sample ID: 2202151-002ams SampType: MS TestCode: EPA Method 8021B: Volatiles

Client ID: BH22-02 0.0 Batch ID: 65380 RunNo: 85645

Prep Date: 2/4/2022 Analysis Date: 2/5/2022 SeqNo: 3015138 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 107 80 1.0 0.024 0.9737 120 Benzene O Toluene 1.0 0.049 0.9737 0 105 80 120 0 105 80 Ethylbenzene 1.0 0.049 0.9737 120 Xylenes, Total 3.0 0.097 2.921 0 104 80 120 Surr: 4-Bromofluorobenzene 89.1 0.87 0.9737 70 130

Sample ID: 2202151-002amsd SampType: MSD TestCode: EPA Method 8021B: Volatiles

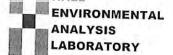
Client ID: BH22-02 0.0 Batch ID: 65380 RunNo: 85645

Prep Date: 2/4/2022	2/4/2022 Analysis Date: 2/5/2022						Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.024	0.9434	0	102	80	120	7.75	20	
Toluene	0.97	0.047	0.9434	0	103	80	120	5.35	20	
Ethylbenzene	0.96	0.047	0.9434	0	102	80	120	6.47	20	
Xylenes, Total	2.8	0.094	2.830	0	100	80	120	6.72	20	
Surr: 4-Bromofluorobenzene	0.86		0.9434		90.8	70	130	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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 15 of 15



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque. NAI 87109 TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

Client Name: Vertex Resources Services, Inc.	Work Order Number: 2202151	RcptNo: 1
Received By: Cheyenne Cason 2	2/3/2022 1:27:00 PM	Charl
Completed By: Cheyenne Cason 2	/3/2022 2:33:44 PM	Charl
Reviewed By: 820 3/3/22		Chlose
Chain of Custody		
1. Is Chain of Custody complete?	Yes 🗸	No C
2. How was the sample delivered?		No Not Present
	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° 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) properly pre		
8. Was preservative added to bottles?	Yes	No ☑ No ☑ NA □
9 Received at least 1 viol with to		
9. Received at least 1 vial with headspace <1/4" for	AQ VOA? Yes	No □ NA 🗹
0. Were any sample containers received broken?	Yes	No 🗹
1. Does paperwork match bottle labels?		# of preserved bottles checked
(Note discrepancies on chain of custody)	Yes 🗸	No for pH:
2. Are matrices correctly identified on Chain of Custo	ody? Yes 🗸	(<2 or >12 unless noted) No Adjusted?
3. Is it clear what analyses were requested?	Yes 🗸	
4. Were all holding times able to be met?	Yes 🗸	
(If no, notify customer for authorization.)	163	No D Checked by: $J^{L} 2 3 2 3 $
pecial Handling (if applicable)		
Was client notified of all discrepancies with this or	der? Yes	No 🗆 NA 🗸
Person Notified:	Date:	NA 💆
By Whom:		
Regarding:	Via: ☐ eMail ☐ P	hone Fax In Person
Client Instructions:		
6. Additional remarks:		
7. Cooler Information Cooler No Temp °C Condition Seal Inta 1 1.3 Good Not Present	act Seal No Seal Date	Signed By

-	
70	
9	
~	
2	
2	
6	
2	
2	
3	
0	
-	
3	
8	
00	
Ξ.	
600	
00	
• •	
9	
1	
00	
8/2	
8/2	
00	
8/202	
8/2024	
8/2024 I	
8/2024 10	
8/2024 I	
8/2024 10:1	
8/2024 10:19	
8/2024 10:19:	
8/2024 10:19:1	
8/2024 10:19:	
8/2024 10:19:19	
8/2024 10:19:19 A	
8/2024 10:19:19 AN	
8/2024 10:19:19 A	

Client:	main	^	le√	ora	Turn-Around Standard Project Nam	d □ Ru	5 DAY	- 6			A	N	AL	YS.	SIS	5 L	AE	301	IEN RAT		-
Mailing	Addres	s:			SALON	Cat 8	5 Fed Com 2141H		40	01 1							tal.co				D: 0
					Project #: 2	25 001	29	1			13wk 15-34							M 871	09		/20/2
Phone	#:				1 '	LE-001	01			zi. OC)J-J2	+0-0			81		uest	4107			
email o	r Fax#:				Project Mana	ager:		_	6			-									3.5
QA/QC I □ Stan	Package idard		☐ Level 4 (Full Va	alidation)	Bra	nden -	Schafer	TMB's (8021)	O / MRC	PCB's		8270SIMS		PO ₄ , SO ₄			/Absen				:34:52 PM
Accredi		□ Az Co	ompliance		Sampler:	AIA		MB	DR		=	270		NO ₂ , I			sent	A M		1 1	
□ NEL		☐ Othe			On Ice:	Y Yes	□ No	-	8	3/8C	504.	ь	w			(AC	(Pre			1.1	H.
□ EDD	(Type)			_	# of Coolers:		.1 (00)	MTBE)(GF	cide	po	310	etal	S S	~	i-VC	L.				
100	Time	Matrix	Sample Name		Container	Preservativ	, 4 -0.1=1.3 (°C) Ve HEAL No. 2702151	RIEX M	TPH B015D(GRO / DRO / MRO)	8081 Pesticides/8082	EDB (Method 504.1)	PAHs by 8310	RCRA 8 Metals	F, Br, NO ₃ ,	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)				
2-1-22	1200	Soil	BH22-01	0.0	bloss Jor	ICE	coel	1						1							
1	1210	-1-	BH22-02	0.0			COEL												11		
	1220		BH22-03	0,0			C103							Ħ							7
	1230		BH22-04	6.0			(X)Y							T							
	1300		BH22-05	6.0			CCS	Ħ	T					1						\vdash	=
A P. S	1310		BH22-05	1.0			(206							+							-
ALT	1330		BH22-05	2.0			CP7		H			7		1				+	-		+
	1400		131422-06	0.0			008	13	\dagger	+	+	1		+			Ħ	+			
	1410		BH22-06	2.0			009	1	\Box	7	7			\dashv				+			3
	1430		BH22-07	0.0	1		010	1	\forall	\dashv	7	7		#	+		-	+			
1/	1450		B1+22-07	2.0	V	V	011	1	H			1			\forall				+=		
V		7	BH22.					1	9					4							
Date:	Time:	Relinquishe	ed by:		Received by:	Via:	Date Time 1/2/22 1000	Rem	arks												Pa
Date:	Time: 1900	Relinquishe			Received by:	Via: V	Date Time 2/3/22 1327														rage 122 oj

Clien	t: ig Addres		rter		Pro S	Project #: 225 2 120				HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109										1		
Phone	2 #:				Pro		22E-00					05-3						-345-		13		
email	or Fax#:				-	S. C. C.		, Million Marie	L	7	_	_				ysis	Req	uest		0.00		-
	Package Indard);	☐ Level 4 (Full \	Validation)		ject Man B r∞	ager: In don	Schaler	's (8021)	DRO / MRO)	PCB's		SIMS		PO4, SO4			Absent)				
I NE		□ Oth	Compliance		Sam On I		Ald Ves	□ No	/ TMB's	-	s/8082 F		or 8270SIMS	(0)	NO ₂ ,		(A)	(Present/Absent)		\prod		
	e Time Matrix Sample Name				Coolers ler Temp	C(including CF):	(°C)	7 =	5	Pesticides/8082	(Method 5	PAHs by 8310	RCRA 8 Metals	F, Br, NO ₃ ,	VOA)	8270 (Semi-VOA)	Coliform (П			
Date 2-1-2	Time 2 1200	Matrix	Sample Name	0,0	Туре	Container Preservative HEAL No. Type and # Type 2202151				8081	EDB (PAHs	RCRA	(C)	8260 (VOA)	8270 (Total C					
1	1210	20/1	BH22-07			John	ICE		11						1							
1	1220		B1422 - 03	0.0					H	H		_		4	11							
	1230		BH22-04	6.0					+		-	4		4	Ш							
	1300		BH22-05	6.0					+	++				4	\coprod	-	1					
	1310		BH22-05	1.0			7 - 17		H	+		-	+		#	-	4	_				
	1330		BH22-05	2.0					Н	+		+	+	+	H	+	-		\perp	-	4	_
	1400		131122-06	0.0						+	\dashv	+	+	+	+		+	-			+	
	1410		BH22-06	2.0						Ħ	+	+	+	+	+	+	+		+-		1	
-	1730		BH22-07	0.0		/	V			T		+		+	+	+	-		+	-	+	_
\forall	1450	V	B1+22-07	2.0	V		•		N.				Ť		#		+	-			+	-
		Relinquishe			Receive	iii	Via:	42/22 1000	Rem					1	4							
	Più	a Cun	illed to Hall Environmental					Date Time ries. This serves as notice of this														



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

March 04, 2022

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

FAX:

RE: Stray Cat 8 Fed 5 OrderNo.: 2202B31

Dear Brandon Schafer:

Hall Environmental Analysis Laboratory received 2 sample(s) on 2/24/2022 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 don't hesitate to contact HEAL for any additional information or clarifications.

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Analytical ReportLab Order **2202B31**

Date Reported: 3/4/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-08 0'

 Project:
 Stray Cat 8 Fed 5
 Collection Date: 2/22/2022 3:15:00 PM

 Lab ID:
 2202B31-001
 Matrix: SOIL
 Received Date: 2/24/2022 8:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: SB
Diesel Range Organics (DRO)	13	9.6	mg/Kg	1	2/28/2022 11:36:40 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	2/28/2022 11:36:40 PM
Surr: DNOP	84.9	51.1-141	%Rec	1	2/28/2022 11:36:40 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	2/26/2022 5:48:22 AM
Surr: BFB	102	70-130	%Rec	1	2/26/2022 5:48:22 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	2/26/2022 5:48:22 AM
Toluene	ND	0.047	mg/Kg	1	2/26/2022 5:48:22 AM
Ethylbenzene	ND	0.047	mg/Kg	1	2/26/2022 5:48:22 AM
Xylenes, Total	ND	0.094	mg/Kg	1	2/26/2022 5:48:22 AM
Surr: 4-Bromofluorobenzene	98.2	70-130	%Rec	1	2/26/2022 5:48:22 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	76	60	mg/Kg	20	3/2/2022 11:46:31 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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 6

Analytical Report

Lab Order **2202B31**Date Reported: **3/4/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-09 0'

 Project:
 Stray Cat 8 Fed 5
 Collection Date: 2/22/2022 3:15:00 PM

 Lab ID:
 2202B31-002
 Matrix: SOIL
 Received Date: 2/24/2022 8:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	2/28/2022 11:47:21 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	2/28/2022 11:47:21 PM
Surr: DNOP	81.9	51.1-141	%Rec	1	2/28/2022 11:47:21 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	2/26/2022 6:58:07 AM
Surr: BFB	103	70-130	%Rec	1	2/26/2022 6:58:07 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	2/26/2022 6:58:07 AM
Toluene	ND	0.048	mg/Kg	1	2/26/2022 6:58:07 AM
Ethylbenzene	ND	0.048	mg/Kg	1	2/26/2022 6:58:07 AM
Xylenes, Total	ND	0.097	mg/Kg	1	2/26/2022 6:58:07 AM
Surr: 4-Bromofluorobenzene	98.8	70-130	%Rec	1	2/26/2022 6:58:07 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	110	60	mg/Kg	20	3/3/2022 12:48:33 AM

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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: **2202B31**

04-Mar-22

Client: Vertex Resources Services, Inc.

Project: Stray Cat 8 Fed 5

Sample ID: MB-65909 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 65909 RunNo: 86196

Prep Date: 3/2/2022 Analysis Date: 3/2/2022 SeqNo: 3038531 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-65909 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 65909 RunNo: 86196

Prep Date: 3/2/2022 Analysis Date: 3/2/2022 SeqNo: 3038532 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride 14 1.5 15.00 0 92.8 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 range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 3 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: **2202B31**

04-Mar-22

Client: Vertex Resources Services, Inc.

Project: Stray Cat 8 Fed 5

Sample ID: MB-65801 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 65801 RunNo: 86130 Prep Date: 2/25/2022 Analysis Date: 2/28/2022 SeqNo: 3036104 Units: mg/Kg Analyte 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 103 141 10 10.00 51.1

Sample ID: LCS-65801 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 65801 RunNo: 86130 Prep Date: 2/25/2022 Analysis Date: 2/28/2022 SeqNo: 3036105 Units: mg/Kg PQL SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Qual Analyte Result HighLimit Diesel Range Organics (DRO) 50 10 50.00 0 99.9 68.9 135 Surr: DNOP 5.2 5.000 103 51.1 141

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 range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: **2202B31**

04-Mar-22

Client: Vertex Resources Services, Inc.

Project: Stray Cat 8 Fed 5

Sample ID: Ics-65787 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 65787 RunNo: 86121

Prep Date: 2/24/2022 Analysis Date: 2/26/2022 SeqNo: 3034390 Units: mg/Kg

Analyte **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 24 5.0 25.00 97.8 78.6 131

 Surr: BFB
 1200
 1000
 119
 70
 130

Sample ID: mb-65787 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 65787 RunNo: 86121

Prep Date: 2/24/2022 Analysis Date: 2/26/2022 SeqNo: 3034392 Units: mg/Kg

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 103 70 130

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 range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: **2202B31**

04-Mar-22

Client: Vertex Resources Services, Inc.

Project: Stray Cat 8 Fed 5

Sample ID: 2202b31-001ams	2b31-001ams SampType: MS				tCode: EF	iles				
Client ID: BH22-08 0'	Batch	n ID: 657	787	R	tunNo: 80	6121				
Prep Date: 2/24/2022	Analysis D	ate: 2/ 2	26/2022	S	eqNo: 30	034443	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.023	0.9276	0	90.6	80	120			
Toluene	0.89	0.046	0.9276	0	96.2	80	120			
Ethylbenzene	0.91	0.046	0.9276	0	97.9	80	120			
Xylenes, Total	2.7	0.093	2.783	0	98.4	80	120			
Surr: 4-Bromofluorobenzene	0.93		0.9276		100	70	130			

Sample ID: 2202b31-001amsd	SampT	ype: MS	D	Tes	tCode: El	iles							
Client ID: BH22-08 0'	Batcl	n ID: 657	787	R	RunNo: 80								
Prep Date: 2/24/2022	Analysis D	ate: 2/ 2	2/26/2022 SeqNo: 3034444 U					Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene	0.85	0.024	0.9671	0	88.0	80	120	1.24	20				
Toluene	0.91	0.048	0.9671	0	93.6	80	120	1.47	20				
Ethylbenzene	0.92	0.048	0.9671	0	94.6	80	120	0.739	20				
Xylenes, Total	2.7	0.097	2.901	0	94.1	80	120	0.269	20				
Surr: 4-Bromofluorobenzene	0.96		0.9671		99.0	70	130	0	0				

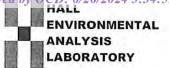
Sample ID: LCS-65787	Samp	ype: LC	S	Tes	tCode: El	PA Method 8021B: Volatiles					
Client ID: LCSS	Batcl	h ID: 65 7	787	F	RunNo: 80						
Prep Date: 2/24/2022	Analysis D	Date: 2/ 2	26/2022	8	SeqNo: 30	034456	Units: mg/K	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.88	0.025	1.000	0	87.6	80	120				
Toluene	0.92	0.050	1.000	0	92.2	80	120				
Ethylbenzene	0.93	0.050	1.000	0	92.9	80	120				
Xylenes, Total	2.8	0.10	3.000	0	93.1	80	120				
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130				

Sample ID: mb-65787	Samp	Гуре: МЕ	BLK	Tes	TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batc	h ID: 65	787	F	RunNo: 8	6121						
Prep Date: 2/24/2022	Analysis [Date: 2/	26/2022	5	SeqNo: 3	034458	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	0.99		1.000		99.2	70	130					

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 range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 6 of 6



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: Vertex Resources Work Order Number: 2202B31 RcptNo: 1 Services, Inc. Received By: Joseph Alderette 2/24/2022 8:00:00 AM Completed By: Sean Livingston 2/24/2022 8:49:31 AM Reviewed By: Jn 2/24/22 Chain of Custody 1. Is Chain of Custody complete? Yes V No 🗌 Not Present 2. How was the sample delivered? Courier Log In 3. Was an attempt made to cool the samples? No T NA \square Yes V 4. Were all samples received at a temperature of >0° C to 6.0°C No L NA 🗌 Yes 🗸 5. Sample(s) in proper container(s)? Yes 🗸 No 🗌 6. Sufficient sample volume for indicated test(s)? No 🗌 Yes V 7. Are samples (except VOA and ONG) properly preserved? No 🗌 8. Was preservative added to bottles? No V Yes NA 🗌 9. Received at least 1 vial with headspace <1/4" for AQ VOA? No 🗌 NA V Yes 🗌 Yes 🗌 10. Were any sample containers received broken? No V # of preserved bottles checked 11. Does paperwork match bottle labels? Yes 🗸 No 🗍 for pH: (Note discrepancies on chain of custody) (<2 or >12 unless noted) Adjusted? No 🗌 12. Are matrices correctly identified on Chain of Custody? Yes V 13. Is it clear what analyses were requested? Yes 🗸 No 🗌 2 2-24-22 14. Were all holding times able to be met? No 🗌 Yes 🗸 Checked by: (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes No 🗌 NA V Person Notified: Date: By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 16. Additional remarks: 17. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By 1.4 Good

	Chain	-of-C	ustody Record	Turn-Around	d Time:								-							ecen
Client:	Vert	ex		Standard	d Rush	15 May											NM BOE			
Mailing	Address	S:		- Stray (Cat & Fe	id 5	1	- 49	— 01 Н	lawk	www.hallenvironmental.com wkins NE - Albuquerque, NM 87109								CD: 0/.	
Phone	#:			Project #:	×199 -				el. 50			975	5	ax	505		4107	05		26/2024
email o				Project Mana	ager:			<u> </u>			-		100		I TOG			7		<u>د</u> نز
QA/QC	Package:		☐ Level 4 (Full Validation)	Brand BSchafen	ager: on Schale Overtex.	ca	TMB's (8021)) / MRC	PCB's		SIMS		PO ₄ , SO ₄			/Absent				34:52 PM
Accred		☐ Az Co	ompliance		Sampler: J⊂ On Ice: ☑ Yes □ No				/8082 F	04.1)	or 8270SIMS		NO ₂ ,		₹	Present				
	(Type)				# of Coolers: / Cooler Temp(Including CF): /. 5 - 0.1 = /.4 (°C)				cides	od 5	310	etals	Br, NO ₃ ,	~	i-VO	Jun (F				
Date	Time	Matrix	Sample Name	Cooler Temp Container Type and #	Preservative Type		BIEX? MTBE	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082	EDB (Method 504.1)	PAHs by 8310	RCRA 8 Metals	(C) F, Br,	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)				
7-22-22	15:15	5.1	BHSS-08 0.	1 Ja	ice	001	文	X	- W				X	ω	8		1			
·1	15:17	u	BHZZ-09 6'	4	n =	007	X	X					X	Ì						
													ind To	H						
Date:	Time:	Relinquish Relinquish		Received by:	Via:	Date Time 2 23 22 1 00 Date Time	Rem	narks Of	5: -ec	+ /	5111		Des	,	E	nerg	19			Page
Thisper	1900	aci	Diritted to Hall Environmental may be sub			2-24-22 8:66			-											Page 132 of 3



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

April 20, 2022

Monica Peppin
Devon Energy
6488 Seven Rivers Highway
Artesia, NM 88210
TEL: (505) 250 1226

TEL: (505) 350-1336

FAX:

RE: Stray Cat 8 5 214H OrderNo.: 2204383

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 2 sample(s) on 4/8/2022 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 don't hesitate to contact HEAL for any additional information or clarifications.

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 4/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BH22-10 0.5'
Project: Stray Cat 8 5 214H
Collection Date: 4/6/2022

Lab ID: 2204383-001 **Matrix:** SOIL **Received Date:** 4/8/2022 7:45:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: ED
Diesel Range Organics (DRO)	510	9.5	mg/Kg	1	4/11/2022 5:40:09 PM
Motor Oil Range Organics (MRO)	510	48	mg/Kg	1	4/11/2022 5:40:09 PM
Surr: DNOP	114	51.1-141	%Rec	1	4/11/2022 5:40:09 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	4/11/2022 4:57:30 PM
Surr: BFB	96.2	37.7-212	%Rec	1	4/11/2022 4:57:30 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	4/11/2022 4:57:30 PM
Toluene	ND	0.047	mg/Kg	1	4/11/2022 4:57:30 PM
Ethylbenzene	ND	0.047	mg/Kg	1	4/11/2022 4:57:30 PM
Xylenes, Total	ND	0.095	mg/Kg	1	4/11/2022 4:57:30 PM
Surr: 4-Bromofluorobenzene	98.0	70-130	%Rec	1	4/11/2022 4:57:30 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	30000	1500	mg/Kg	500	4/14/2022 5:33:28 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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 6

Date Reported: 4/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy
Client Sample ID: BH22-11 0.5'
Project: Stray Cat 8 5 214H
Collection Date: 4/6/2022

Lab ID: 2204383-002 **Matrix:** SOIL **Received Date:** 4/8/2022 7:45:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	RGANICS					Analyst: ED
Diesel Range Organics (DRO)	6900	93		mg/Kg	10	4/11/2022 6:04:45 PM
Motor Oil Range Organics (MRO)	6300	460		mg/Kg	10	4/11/2022 6:04:45 PM
Surr: DNOP	0	51.1-141	S	%Rec	10	4/11/2022 6:04:45 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	23		mg/Kg	5	4/11/2022 5:20:56 PM
Surr: BFB	97.6	37.7-212		%Rec	5	4/11/2022 5:20:56 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	4/11/2022 5:20:56 PM
Toluene	ND	0.23		mg/Kg	5	4/11/2022 5:20:56 PM
Ethylbenzene	ND	0.23		mg/Kg	5	4/11/2022 5:20:56 PM
Xylenes, Total	ND	0.47		mg/Kg	5	4/11/2022 5:20:56 PM
Surr: 4-Bromofluorobenzene	97.4	70-130		%Rec	5	4/11/2022 5:20:56 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	31000	1500		mg/Kg	500	4/14/2022 5:45:52 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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 2 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: **2204383**

20-Apr-22

Client: Devon Energy
Project: Stray Cat 8 5 214H

Sample ID: MB-66817 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 66817 RunNo: 87235

Prep Date: 4/13/2022 Analysis Date: 4/13/2022 SeqNo: 3084673 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-66817 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 66817 RunNo: 87235

Prep Date: 4/13/2022 Analysis Date: 4/13/2022 SeqNo: 3084674 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 92.0 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 range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 3 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: **2204383**

20-Apr-22

Client: Devon Energy
Project: Stray Cat 8 5 214H

Sample ID: LCS-66742	SampT	ype: LC	S	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch	Batch ID: 66742 R				7160						
Prep Date: 4/8/2022	Analysis D	ate: 4/ 1	11/2022	SeqNo: 3081816			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	90.0	68.9	135					
Surr: DNOP	4.3		5.000		86.1	51.1	141					

Sample ID: MB-66742	SampT	уре: МЕ	BLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch	ID: 667	742	F	RunNo: 87	7160						
Prep Date: 4/8/2022	Analysis D	ate: 4/	11/2022	5	SeqNo: 30	081819	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	85.8	51.1	141

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 range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: **2204383 20-Apr-22**

Client: Devon Energy
Project: Stray Cat 8 5 214H

Sample ID: mb-66738 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 66738 RunNo: 87148

Prep Date: 4/8/2022 Analysis Date: 4/11/2022 SeqNo: 3081392 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 970 1000 96.8 37.7 212

Sample ID: Ics-66738 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

1000

Client ID: LCSS Batch ID: 66738 RunNo: 87148

2100

Prep Date: 4/8/2022 Analysis Date: 4/11/2022 SeqNo: 3081393 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Gasoline Range Organics (GRO) 25 5.0 25.00 0 101 72.3 137

207

37.7

212

Qualifiers:

Surr: BFB

- 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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: **2204383**

20-Apr-22

Client: Devon Energy
Project: Stray Cat 8 5 214H

Sample ID: mb-66738 SampType: MBLK				Tes						
Client ID: PBS	Batch ID: 66738			F	RunNo: 87	7148				
Prep Date: 4/8/2022	Analysis [Date: 4/	11/2022	5	SeqNo: 30	081430	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	0.98		1.000		98.4	70	130			

Sample ID: LCS-66738	TestCode: EPA Method 8021B: Volatiles									
Client ID: LCSS	F	RunNo: 87								
Prep Date: 4/8/2022	Analysis [Date: 4/	11/2022	9	SeqNo: 30	081431	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.025	1.000	0	86.3	80	120			
Toluene	0.89	0.050	1.000	0	89.2	80	120			
Ethylbenzene	0.90	0.050	1.000	0	89.6	80	120			
Xylenes, Total	2.7	0.10	3.000	0	90.6	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

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 range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 6 of 6



Hall Environmental Analysis Laboratory 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:	Devon Energy	Wor	mber: 220	4383		Rcpt	No: 1		
Received By:	Cheyenne Cason	4/8/20	22 7:45:00	АМ		Chul			
Completed By:	Sean Livingston	4/8/20	22 9:23:51	AM		Chal	/		
Reviewed By:	TML	410/22				اسدل	1736		
Chain of Cus	stody								
1. Is Chain of C	ustody complete?			Yes	V	No 🗌	Not Present	1	
2. How was the	sample delivered?			Cou	<u>rier</u>		0.000.000.000		
Log In									
3. Was an atten	npt made to cool the	samples?		Yes	~	No 🗆	NA 🗆]	
4. Were all sam	ples received at a ten	nperature of >0° C	to 6.0°C	Yes	V	No 🗌	NA 🗆	1	
5. Sample(s) in	5. Sample(s) in proper container(s)?					No 🗌			
6. Sufficient sam	ple volume for indica	ted test(s)?		Yes	~	No 🗌			
7. Are samples (except VOA and ONG) properly preserved?					~	No 🗆			
8. Was preservative added to bottles?						No 🔽	NA 🗆		
9. Received at le	ast 1 vial with headsp	pace <1/4" for AQ \	/OA?	Yes		No 🗌	NA 🗸		
10. Were any san	nple containers receiv	ved broken?		Yes		No 🔽			/
	ork match bottle labels ancies on chain of cus			Yes	V	No 🗌	# of preserved bottles checked for pH:	or >12 unl	ass nated)
	correctly identified on	ALC: EMILIAR DESCRIPTION OF THE PROPERTY OF TH		Yes	V	No 🗌	Adjusted?	OI 72 UIII	ess (loted)
	analyses were reque				V	No 🗆		- 0.4	
 Were all holding (If no, notify cut) 	ng times able to be m ustomer for authorizat	et? ion.)		Yes	V	No 🗌	Checked by:	KPG	4-8-
	ing (if applicable						2		
15. Was client no	tified of all discrepand	cies with this order?	>	Yes		No 🗆	NA 🗹		
Person	Notified:		Date						
By Who	, A		Via:	☐ еМа	il 🔲	Phone Fax	☐ In Person		
Regardi									
	structions:								
16. Additional ren	narks:								
17. Cooler Inform	THE RESERVE AS A SECOND CO.								
Cooler No	Temp °C Condit	ion Seal Intact	Seal No	Seal Da	te	Signed By			
	3.7 Good								

Released to Imaging: 6/28/2024 10:19:19 AM

Client:		Turn-Around Time: 5- Day Standard Rush Project Name:												NM SOR			-		
Mailing Address: Or Fill Phone #:															AIV	UK	100		
			Stra	Stray Cat 8 5 #ZIUH Project #:				www.hallenvironmental.com											
			Project #:					4901 Hawkins NE - Albuquerque, NM 87109										6/26/20	
			ZZE-00189				Tel. 505-345-3975 Fax 505-345-4107												
	or Fax#:			Project Man	ager:		Analysis Request (B021) (B021) (CB's CB's Absent)										CO		
QA/QC Package: ☐ Standard ☐ Level 4 (Full Validation)			Momica PEDPIN				O/MRO	PCB's		8270SIMS		704, 904		t/Absent)				:34:52 PM	
Accreditation:		Sampler: C	۵		TMB	PR	382	7	3270	2	5		sen						
		On Ice: ☐ Yes ☐ No # of Coolers: ☐ 4.0 (). 3 = 3.7 Cooler Temp(including cF): 3.7 (°C)				(GRO/)8/s	504	5			i-VOA)	orm (Pre				1		
							cide	por	310	etal N							1		
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	3.2	втех) мтве	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082	EDB (Method 504.1)	PAHs by 8310	CI E Br NO		8270 (Semi-VOA)	Total Coliform (Present/Absent)				
416	(0:10	2011		402	Icl	201		5	ω	ш	ш , ц		/ 8	- 80		+	H		
4/6	10:15		BHZZ-11 0.5	40Z	ICC	007	/	V				-	1						
	per same	الد							-										+
	bottle																		
									4			-	-			-			
	<u>r</u> 1																	Ŧ	
																			T
									+	+	+	H				4			
5.1												4					7		
Date:	Time: Relinquished by:			Received by: Via: U/7/22 1230				Remarks: CC: Chance Dixon										Page	
Date:	tologian Ca		Received by: Via: Date Time				Direct Bill: Dale woodall, Devon Energy												
	If necessary,	U	mitted to Hall Environmental may be subc	Che con		0/10	1											צפ	of 356

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Kent Stallings Vertex 3101 Boyd Dr Carlsbad, New Mexico 88220

Generated 5/10/2024 8:45:31 AM

JOB DESCRIPTION

Stray Cat 8 5 Federal Com #214H

JOB NUMBER

885-3647-1

Eurofins Albuquerque 4901 Hawkins NE Albuquerque NM 87109

Eurofins Albuquerque

Job Notes

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

Authorization

Generated 5/10/2024 8:45:31 AM

Authorized for release by Andy Freeman, Business Unit Manager andy.freeman@et.eurofinsus.com (505)345-3975

Client: Vertex
Project/Site: Stray Cat 8 5 Federal Com #214H

Laboratory Job ID: 885-3647-1

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	
Client Sample Results	6
QC Sample Results	
QC Association Summary	
Lab Chronicle	16
Certification Summary	18
Chain of Custody	19
Receipt Checklists	20

2

3

4

6

8

9

10

Definitions/Glossary

Client: Vertex Job ID: 885-3647-1

Project/Site: Stray Cat 8 5 Federal Com #214H

Glossary

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

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDI Method Detection Limit

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

Eurofins Albuquerque

.

3

6

0

9

10

1-

Case Narrative

Client: Vertex Job ID: 885-3647-1

Project: Stray Cat 8 5 Federal Com #214H

Job ID: 885-3647-1 Eurofins Albuquerque

Job Narrative 885-3647-1

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 5/1/2024 7:35 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.9°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.

Eurofins Albuquerque

2

5

6

8

9

10

Client: Vertex Job ID: 885-3647-1

Project/Site: Stray Cat 8 5 Federal Com #214H

Client Sample ID: BH22-01 2.0'

Date Collected: 04/28/24 11:00 Date Received: 05/01/24 07:35 Lab Sample ID: 885-3647-1

Ma	ıtrix	: S	olid	

Method: SW846 8015D - Gasoline Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.6	mg/Kg		05/01/24 16:33	05/02/24 18:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		15 - 244			05/01/24 16:33	05/02/24 18:43	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		05/01/24 16:33	05/02/24 18:43	1
Ethylbenzene	ND		0.046	mg/Kg		05/01/24 16:33	05/02/24 18:43	1
Toluene	ND		0.046	mg/Kg		05/01/24 16:33	05/02/24 18:43	1
Xylenes, Total	ND		0.092	mg/Kg		05/01/24 16:33	05/02/24 18:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		39 - 146			05/01/24 16:33	05/02/24 18:43	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4	mg/Kg		05/02/24 10:08	05/03/24 00:30	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		05/02/24 10:08	05/03/24 00:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	86	-	62 - 134			05/02/24 10:08	05/03/24 00:30	1

Method: EPA 300.0 - Anions, Ion Cl	nromatography - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.7	5.0	mg/Kg			05/04/24 23:52	1

Client: Vertex Job ID: 885-3647-1

Project/Site: Stray Cat 8 5 Federal Com #214H

Client Sample ID: BH22-02 2.0'

Date Collected: 04/28/24 11:10 Date Received: 05/01/24 07:35 Lab Sample ID: 885-3647-2

Matrix: Solid

Method: SW846 8015D - Gasoline	e Range Organ	ics (GRO) ((GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		05/01/24 16:33	05/02/24 19:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		15 - 244			05/01/24 16:33	05/02/24 19:05	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/01/24 16:33	05/02/24 19:05	1
Ethylbenzene	ND		0.049	mg/Kg		05/01/24 16:33	05/02/24 19:05	1
Toluene	ND		0.049	mg/Kg		05/01/24 16:33	05/02/24 19:05	1
Xylenes, Total	ND		0.099	mg/Kg		05/01/24 16:33	05/02/24 19:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		39 - 146			05/01/24 16:33	05/02/24 19:05	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3	mg/Kg		05/02/24 10:08	05/03/24 00:42	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		05/02/24 10:08	05/03/24 00:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	87	-	62 - 134			05/02/24 10:08	05/03/24 00:42	1

Method: EPA 300.0 - Anions, Ion C	hromatography - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	5.1	mg/Kg			05/04/24 23:58	1

Eurofins Albuquerque

_

3

5

-

9

4 4

Client: Vertex Job ID: 885-3647-1

Project/Site: Stray Cat 8 5 Federal Com #214H

Client Sample ID: BH22-03 2.0'

Date Collected: 04/28/24 11:20 Date Received: 05/01/24 07:35 Lab Sample ID: 885-3647-3

Matrix: Solid

_ Method: SW846 8015D - Gasolino	e Range Orgar	nics (GRO)	(GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		05/01/24 16:33	05/02/24 19:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		15 - 244			05/01/24 16:33	05/02/24 19:27	1

Analyte	Result C	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/01/24 16:33	05/02/24 19:27	1
Ethylbenzene	ND		0.048	mg/Kg		05/01/24 16:33	05/02/24 19:27	1
Toluene	ND		0.048	mg/Kg		05/01/24 16:33	05/02/24 19:27	1
Xylenes, Total	ND		0.095	mg/Kg		05/01/24 16:33	05/02/24 19:27	1
Surrogate	%Recovery (Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			39 - 146			05/01/24 16:33	05/02/24 19:27	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7	mg/Kg		05/02/24 10:08	05/03/24 00:54	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		05/02/24 10:08	05/03/24 00:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	90		62 - 134			05/02/24 10:08	05/03/24 00:54	1

Method: EPA 300.0 - Anions, Ion Ch	romatography - Soluble	•					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.7	5.1	mg/Kg			05/05/24 00:05	1

Client: Vertex Job ID: 885-3647-1

Project/Site: Stray Cat 8 5 Federal Com #214H

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Result Qualifier

ND

Client Sample ID: BH22-04 2.0'

Date Collected: 04/28/24 11:30 Date Received: 05/01/24 07:35

Gasoline Range Organics [C6 - C10]

Lab Sample ID: 885-3647-4

Matrix: Solid

Prepared	Analyzed	Dil Fac	
05/01/24 16:33	05/02/24 20:10	1	

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	98		15 - 244	05/01/24 16:3	33 05/02/24 20:10	

RL

4.7

Unit

mg/Kg

D

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		05/01/24 16:33	05/02/24 20:10	1
Ethylbenzene	ND		0.047	mg/Kg		05/01/24 16:33	05/02/24 20:10	1
Toluene	ND		0.047	mg/Kg		05/01/24 16:33	05/02/24 20:10	1
Xylenes, Total	ND		0.094	mg/Kg		05/01/24 16:33	05/02/24 20:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		39 - 146			05/01/24 16:33	05/02/24 20:10	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8	mg/Kg		05/02/24 10:08	05/03/24 01:07	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		05/02/24 10:08	05/03/24 01:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	88	-	62 - 134			05/02/24 10:08	05/03/24 01:07	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble								
	Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	38	5.0	mg/Kg			05/05/24 00:11	1

Client: Vertex Job ID: 885-3647-1

Project/Site: Stray Cat 8 5 Federal Com #214H

Client Sample ID: BH22-08 2.0'

Date Collected: 04/28/24 11:40 Date Received: 05/01/24 07:35 Lab Sample ID: 885-3647-5

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)									
Analyte Gasoline Range Organics [C6 - C10]	Result ND	Qualifier	RL	Unit mg/Kg	<u>D</u>	Prepared 05/01/24 16:33	Analyzed 05/02/24 20:32	Dil Fac	
Surrogate 4-Bromofluorobenzene (Surr)	%Recovery	Qualifier	Limits 15 - 244			Prepared 05/01/24 16:33	Analyzed 05/02/24 20:32	Dil Fac	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/01/24 16:33	05/02/24 20:32	1
Ethylbenzene	ND		0.048	mg/Kg		05/01/24 16:33	05/02/24 20:32	1
Toluene	ND		0.048	mg/Kg		05/01/24 16:33	05/02/24 20:32	1
Xylenes, Total	ND		0.096	mg/Kg		05/01/24 16:33	05/02/24 20:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		39 - 146			05/01/24 16:33	05/02/24 20:32	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4	mg/Kg		05/02/24 10:08	05/03/24 01:19	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		05/02/24 10:08	05/03/24 01:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	89		62 - 134			05/02/24 10:08	05/03/24 01:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble							
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND —	5.0	mg/Kg			05/05/24 00:17	1

Client: Vertex Job ID: 885-3647-1

Project/Site: Stray Cat 8 5 Federal Com #214H

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Result Qualifier

Client Sample ID: BH22-09 2.0'

Date Collected: 04/28/24 11:50 Date Received: 05/01/24 07:35

Lab Sample ID: 885-3647-6

Matrix: Solid

Prepared	Analyzed	Dil Fac	ļ
05/01/24 16:33	05/02/24 20:53	1	

Gasoline Range Organics [C6 - C10]	ND	4.6	mg/Kg	 05/01/24 16:33	05/02/24 20:53	1
Surrogate	%Recovery Qualif	ier Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98	15 - 244		05/01/24 16:33	05/02/24 20:53	1

RL

Unit

Method: SW846 8021B - Volatile	Organic Compo	unds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		05/01/24 16:33	05/02/24 20:53	1
Ethylbenzene	ND		0.046	mg/Kg		05/01/24 16:33	05/02/24 20:53	1
Toluene	ND		0.046	mg/Kg		05/01/24 16:33	05/02/24 20:53	1
Xylenes, Total	ND		0.093	mg/Kg		05/01/24 16:33	05/02/24 20:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		39 - 146			05/01/24 16:33	05/02/24 20:53	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.7	mg/Kg		05/02/24 10:08	05/03/24 01:31	1
Motor Oil Range Organics [C28-C40]	ND		44	mg/Kg		05/02/24 10:08	05/03/24 01:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	88		62 - 134			05/02/24 10:08	05/03/24 01:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result Q	ualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	14		5.0	mg/Kg		_	05/05/24 00:24	1		

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 4219

Prep Batch: 4219

Prep Batch: 4219

Job ID: 885-3647-1

Project/Site: Stray Cat 8 5 Federal Com #214H

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

Lab Sample ID: MB 885-4219/1-A **Matrix: Solid**

Analysis Batch: 4359

Client: Vertex

мв мв

Analyte Result Qualifier RLUnit D Prepared Analyzed Dil Fac Gasoline Range Organics [C6 - C10] ND 5.0 mg/Kg 05/01/24 16:33 05/02/24 14:22

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 101 15 - 244 05/01/24 16:33 05/02/24 14:22

Lab Sample ID: LCS 885-4219/2-A

Matrix: Solid

Analysis Batch: 4359

LCS LCS

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 217 15 - 244

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-4219/1-A

Matrix: Solid

Analysis Batch: 4360

MB MB

Result Analyte

Qualifier RL Unit D Prepared Dil Fac Analyzed 05/02/24 14:22 Benzene ND 0.025 mg/Kg 05/01/24 16:33 Ethylbenzene ND 0.050 05/01/24 16:33 05/02/24 14:22 mg/Kg ND 0.050 05/02/24 14:22 Toluene mg/Kg 05/01/24 16:33 05/02/24 14:22 Xylenes, Total ND 0.10 mg/Kg 05/01/24 16:33

MB MB

Qualifier Limits Prepared Dil Fac Surrogate %Recovery Analyzed 4-Bromofluorobenzene (Surr) 86 39 - 146 05/01/24 16:33 05/02/24 14:22

Lab Sample ID: LCS 885-4219/3-A

Matrix: Solid

Analysis Batch: 4360

LCS LCS

%Recovery Qualifier Limits Surrogate 39 - 146 4-Bromofluorobenzene (Surr) 88

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

Lab Sample ID: MB 885-4246/1-A

Analysis Batch: 4310

Matrix: Solid

мв мв

Analyte Result Qualifier

Diesel Range Organics [C10-C28] ND Motor Oil Range Organics [C28-C40] ND

MB MB

Surrogate %Recovery Qualifier Limits Di-n-octyl phthalate (Surr) 78 62 - 134 Prep Type: Total/NA

Analyzed

05/02/24 22:39

Client Sample ID: Lab Control Sample

Prep Batch: 4246

Prep Type: Total/NA

Prep Batch: 4219

05/02/24 10:08 05/02/24 22:39 05/02/24 10:08 05/02/24 22:39

Prepared

05/02/24 10:08

Prepared Analyzed Dil Fac

Eurofins Albuquerque

RL

10

50

Unit

mg/Kg

mg/Kg

D

Client Sample ID: Method Blank

Dil Fac

Client: Vertex Job ID: 885-3647-1

Project/Site: Stray Cat 8 5 Federal Com #214H

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

Lab Sample ID: LCS 885-4246/2-A **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Solid

Diesel Range Organics

Analysis Batch: 4310

Prep Batch: 4246 Spike LCS LCS Added Result Qualifier Unit %Rec Limits 50.0 44.1 mg/Kg 88 60 - 135

[C10-C28]

Analyte

LCS LCS %Recovery

Limits Surrogate Qualifier 62 - 134 Di-n-octyl phthalate (Surr) 87

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-79925/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 79932

мв мв

Analyte Result Qualifier RL Unit Dil Fac D Prepared Analyzed Chloride 5.0 mg/Kg 05/04/24 21:21 ND

Lab Sample ID: LCS 880-79925/2-A

Matrix: Solid

Analysis Batch: 79932

Spike LCS LCS %Rec Added Analyte Result Qualifier Limits Unit D %Rec 250 Chloride 240 mg/Kg 96 90 - 110

Lab Sample ID: LCSD 880-79925/3-A

Matrix: Solid

Analysis Batch: 79932

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit Chloride 250 240 90 - 110 mg/Kg

Eurofins Albuquerque

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Prep Type: Soluble

Client: Vertex Job ID: 885-3647-1

Project/Site: Stray Cat 8 5 Federal Com #214H

GC VOA

Prep Batch: 4219

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3647-1	BH22-01 2.0'	Total/NA	Solid	5030C	
885-3647-2	BH22-02 2.0'	Total/NA	Solid	5030C	
885-3647-3	BH22-03 2.0'	Total/NA	Solid	5030C	
885-3647-4	BH22-04 2.0'	Total/NA	Solid	5030C	
885-3647-5	BH22-08 2.0'	Total/NA	Solid	5030C	
885-3647-6	BH22-09 2.0'	Total/NA	Solid	5030C	
MB 885-4219/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-4219/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-4219/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Analysis Batch: 4359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3647-1	BH22-01 2.0'	Total/NA	Solid	8015D	4219
885-3647-2	BH22-02 2.0'	Total/NA	Solid	8015D	4219
885-3647-3	BH22-03 2.0'	Total/NA	Solid	8015D	4219
885-3647-4	BH22-04 2.0'	Total/NA	Solid	8015D	4219
885-3647-5	BH22-08 2.0'	Total/NA	Solid	8015D	4219
885-3647-6	BH22-09 2.0'	Total/NA	Solid	8015D	4219
MB 885-4219/1-A	Method Blank	Total/NA	Solid	8015D	4219
LCS 885-4219/2-A	Lab Control Sample	Total/NA	Solid	8015D	4219

Analysis Batch: 4360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3647-1	BH22-01 2.0'	Total/NA	Solid	8021B	4219
885-3647-2	BH22-02 2.0'	Total/NA	Solid	8021B	4219
885-3647-3	BH22-03 2.0'	Total/NA	Solid	8021B	4219
885-3647-4	BH22-04 2.0'	Total/NA	Solid	8021B	4219
885-3647-5	BH22-08 2.0'	Total/NA	Solid	8021B	4219
885-3647-6	BH22-09 2.0'	Total/NA	Solid	8021B	4219
MB 885-4219/1-A	Method Blank	Total/NA	Solid	8021B	4219
LCS 885-4219/3-A	Lab Control Sample	Total/NA	Solid	8021B	4219

GC Semi VOA

Prep Batch: 4246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3647-1	BH22-01 2.0'	Total/NA	Solid	SHAKE	
885-3647-2	BH22-02 2.0'	Total/NA	Solid	SHAKE	
885-3647-3	BH22-03 2.0'	Total/NA	Solid	SHAKE	
885-3647-4	BH22-04 2.0'	Total/NA	Solid	SHAKE	
885-3647-5	BH22-08 2.0'	Total/NA	Solid	SHAKE	
885-3647-6	BH22-09 2.0'	Total/NA	Solid	SHAKE	
MB 885-4246/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-4246/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 4310

Lab Sample ID 885-3647-1	Client Sample ID BH22-01 2.0'	Prep Type Total/NA	Matrix Solid	Method 8015D	Prep Batch 4246
885-3647-2	BH22-02 2.0'	Total/NA	Solid	8015D	4246
885-3647-3	BH22-03 2.0'	Total/NA	Solid	8015D	4246
885-3647-4	BH22-04 2.0'	Total/NA	Solid	8015D	4246

Eurofins Albuquerque

Page 14 of 21

QC Association Summary

Client: Vertex Job ID: 885-3647-1

Project/Site: Stray Cat 8 5 Federal Com #214H

GC Semi VOA (Continued)

Analysis Batch: 4310 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3647-5	BH22-08 2.0'	Total/NA	Solid	8015D	4246
885-3647-6	BH22-09 2.0'	Total/NA	Solid	8015D	4246
MB 885-4246/1-A	Method Blank	Total/NA	Solid	8015D	4246
LCS 885-4246/2-A	Lab Control Sample	Total/NA	Solid	8015D	4246

HPLC/IC

Leach Batch: 79925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3647-1	BH22-01 2.0'	Soluble	Solid	DI Leach	
885-3647-2	BH22-02 2.0'	Soluble	Solid	DI Leach	
885-3647-3	BH22-03 2.0'	Soluble	Solid	DI Leach	
885-3647-4	BH22-04 2.0'	Soluble	Solid	DI Leach	
885-3647-5	BH22-08 2.0'	Soluble	Solid	DI Leach	
885-3647-6	BH22-09 2.0'	Soluble	Solid	DI Leach	
MB 880-79925/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-79925/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-79925/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 79932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3647-1	BH22-01 2.0'	Soluble	Solid	300.0	79925
885-3647-2	BH22-02 2.0'	Soluble	Solid	300.0	79925
885-3647-3	BH22-03 2.0'	Soluble	Solid	300.0	79925
885-3647-4	BH22-04 2.0'	Soluble	Solid	300.0	79925
885-3647-5	BH22-08 2.0'	Soluble	Solid	300.0	79925
885-3647-6	BH22-09 2.0'	Soluble	Solid	300.0	79925
MB 880-79925/1-A	Method Blank	Soluble	Solid	300.0	79925
LCS 880-79925/2-A	Lab Control Sample	Soluble	Solid	300.0	79925
LCSD 880-79925/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	79925

Eurofins Albuquerque

2

Λ

6

i

9

10

Client: Vertex Project/Site: Stray Cat 8 5 Federal Com #214H

Client Sample ID: BH22-01 2.0'

Date Collected: 04/28/24 11:00 Date Received: 05/01/24 07:35 Lab Sample ID: 885-3647-1

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			4219	JP	EET ALB	05/01/24 16:33
Total/NA	Analysis	8015D		1	4359	RA	EET ALB	05/02/24 18:43
Total/NA	Prep	5030C			4219	JP	EET ALB	05/01/24 16:33
Total/NA	Analysis	8021B		1	4360	RA	EET ALB	05/02/24 18:43
Total/NA	Prep	SHAKE			4246	DH	EET ALB	05/02/24 10:08
Total/NA	Analysis	8015D		1	4310	JU	EET ALB	05/03/24 00:30
Soluble	Leach	DI Leach			79925	SA	EET MID	05/03/24 11:27
Soluble	Analysis	300.0		1	79932	SMC	EET MID	05/04/24 23:52

Client Sample ID: BH22-02 2.0'

Date Collected: 04/28/24 11:10

Date Received: 05/01/24 07:35

Lab Sample ID: 885-3647-2

Matrix: Solid

Batch Dilution Batch Batch Prepared **Prep Type** Type Method Run Factor Number Analyst Lab or Analyzed Total/NA 5030C EET ALB 05/01/24 16:33 Prep 4219 JΡ Total/NA 8015D 05/02/24 19:05 Analysis 1 4359 RA **EET ALB** Total/NA 5030C Prep 4219 JΡ **EET ALB** 05/01/24 16:33 Total/NA Analysis 8021B 1 4360 RA **EET ALB** 05/02/24 19:05 Total/NA SHAKE **EET ALB** 05/02/24 10:08 Prep 4246 DH Total/NA Analysis 8015D 1 4310 JU **EET ALB** 05/03/24 00:42 EET MID Soluble Leach DI Leach 79925 SA 05/03/24 11:27 Soluble Analysis 300.0 1 79932 SMC **EET MID** 05/04/24 23:58

Client Sample ID: BH22-03 2.0'

Date Collected: 04/28/24 11:20

Date Received: 05/01/24 07:35

Lab Sample ID: 885-3647-3

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			4219	JP	EET ALB	05/01/24 16:33
Total/NA	Analysis	8015D		1	4359	RA	EET ALB	05/02/24 19:27
Total/NA	Prep	5030C			4219	JP	EET ALB	05/01/24 16:33
Total/NA	Analysis	8021B		1	4360	RA	EET ALB	05/02/24 19:27
Total/NA	Prep	SHAKE			4246	DH	EET ALB	05/02/24 10:08
Total/NA	Analysis	8015D		1	4310	JU	EET ALB	05/03/24 00:54
Soluble	Leach	DI Leach			79925	SA	EET MID	05/03/24 11:27
Soluble	Analysis	300.0		1	79932	SMC	EET MID	05/05/24 00:05

Client Sample ID: BH22-04 2.0'

Date Collected: 04/28/24 11:30

Date Received: 05/01/24 07:35

Lab Sample ID: 885-3647	-4
-------------------------	----

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			4219	JP	EET ALB	05/01/24 16:33
Total/NA	Analysis	8015D		1	4359	RA	EET ALB	05/02/24 20:10

Lab Sample ID: 885-3647-4

Matrix: Solid

Date Collected: 04/28/24 11:30 Date Received: 05/01/24 07:35

Client: Vertex

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			4219	JP	EET ALB	05/01/24 16:33
Total/NA	Analysis	8021B		1	4360	RA	EET ALB	05/02/24 20:10
Total/NA	Prep	SHAKE			4246	DH	EET ALB	05/02/24 10:08
Total/NA	Analysis	8015D		1	4310	JU	EET ALB	05/03/24 01:07
Soluble	Leach	DI Leach			79925	SA	EET MID	05/03/24 11:27
Soluble	Analysis	300.0		1	79932	SMC	EET MID	05/05/24 00:11

Client Sample ID: BH22-08 2.0'

Lab Sample ID: 885-3647-5 Date Collected: 04/28/24 11:40

Matrix: Solid

Date Received: 05/01/24 07:35

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			4219	JP	EET ALB	05/01/24 16:33
Total/NA	Analysis	8015D		1	4359	RA	EET ALB	05/02/24 20:32
Total/NA	Prep	5030C			4219	JP	EET ALB	05/01/24 16:33
Total/NA	Analysis	8021B		1	4360	RA	EET ALB	05/02/24 20:32
Total/NA	Prep	SHAKE			4246	DH	EET ALB	05/02/24 10:08
Total/NA	Analysis	8015D		1	4310	JU	EET ALB	05/03/24 01:19
Soluble	Leach	DI Leach			79925	SA	EET MID	05/03/24 11:27
Soluble	Analysis	300.0		1	79932	SMC	EET MID	05/05/24 00:17

Client Sample ID: BH22-09 2.0'

Date Collected: 04/28/24 11:50

Date Received: 05/01/24 07:35

Lab Sample	ID:	885-3647	-6
------------	-----	----------	----

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			4219	JP	EET ALB	05/01/24 16:33
Total/NA	Analysis	8015D		1	4359	RA	EET ALB	05/02/24 20:53
Total/NA	Prep	5030C			4219	JP	EET ALB	05/01/24 16:33
Total/NA	Analysis	8021B		1	4360	RA	EET ALB	05/02/24 20:53
Total/NA	Prep	SHAKE			4246	DH	EET ALB	05/02/24 10:08
Total/NA	Analysis	8015D		1	4310	JU	EET ALB	05/03/24 01:31
Soluble	Leach	DI Leach			79925	SA	EET MID	05/03/24 11:27
Soluble	Analysis	300.0		1	79932	SMC	EET MID	05/05/24 00:24

Laboratory References:

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

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Vertex Job ID: 885-3647-1

Project/Site: Stray Cat 8 5 Federal Com #214H

Laboratory: Eurofins Albuquerque

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

uthority	Progr	am	Identification Number	Expiration Date
ew Mexico	State		NM9425, NM0901	02-26-25
The following analytes	are included in this report, bu	ut the laboratory is not certif	ied by the governing authority. This lis	t may include analyte
for which the agency d	oes not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte	
8015D	5030C	Solid	Gasoline Range Organics	[C6 - C10]
8015D	SHAKE	Solid	Diesel Range Organics [C	10-C28]
8015D	SHAKE	Solid	Motor Oil Range Organics	[C28-C40]
8021B	5030C	Solid	Benzene	
8021B	5030C	Solid	Ethylbenzene	
8021B	5030C	Solid	Toluene	
8021B	5030C	Solid	Xylenes, Total	
egon	NELA	P	NM100001	02-26-25

Laboratory: Eurofins Midland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

Chain-of-Custody R	ecord Turn-Arou									N B N			a i a s	ie ai	TAL	
Client: Vertex	Stand	ard ⊠ ∕RusI	Federal Com #214H	-											OR	
(Bill to Deven	Project Na	ame:	Eden lan					w.ha								•
Mailing Address:	Shal	car o s	#214#	ĺ	490)1 Ha	wkins							oś H	av i	:
6/2	IProject #:	22E-0018		1			-345-						4107			:
Phone #:		216-0016	? 7 					Howold Child Colors	Section Charge Section (C)	Print Dillion Colors	Requ	n Coompanies	North Control Control of Control	995	-3647 CC	oc oc
email or Fax#:	Project Ma	anager:	•	1	(0)				SO4			int)		- 883	1 1	1
QA/QC Package:	l k	ent Still	ns-	TMB's (8021)	/ MR	PCB's	SM SM		PO₄, §			-Abse				
☐ Standard ☐ Level 4 (Fu		111 11		B's (RO,		.1) 8270SIMS		2, P(ent/				
Accreditation: Az Compliance		AH/AI	em NI.	₽	TPH®015D(GRO/DRO/MRO)	8081 Pesticides/8082	~ + 1	1	NO ₂ ,			Coliform (Present/Absent)				1
☐ NELAC ☐ Other	On Ice:	Yes Yes	□ No ЧО96	<u>بر</u>	GRC	des/	d 50 10 or	als	o³,		Š	m F)				ļ
			8+6-1=3.9 (°C)	утве	5D(stici	EDB (Method 5 PAHs bv 8310	Me	CIJF, Br, NO ₃ ,	OA)	8270 (Semi-VOA)	lifor				
	Containor	Dunaamietiise	HEAL No.	&_		9	EDB (Met	8	B	8260 (VOA)	S) (S	2			1 1	
Date Time Matrix Sample Na	Container me Type and		HEALING.	BTEX	团	808		2 2	<i>(</i> 3)	826(827	Total (1 1	
Date Time Matrix Sample Na 22-24 100 So./ BH22-0/	2.0 402								1							
9 1 1110 1 BH22-02	2.0'															
N 1120 BH22-03	2.0															
1130 BH22-04	2,0							1								
1 1140 1 BH22-08	2.0			II.	1	/										
V 1150 V BH22-09	2.0° V	V		V	M				V							
Date Time Relinquished by	Received by	Via	Date Time	Ren	nark	3: •			/		//_	_		- Ac	, , , , , , , , , , , , , , , , , , , 	-
On Date Time Delinquished by	Mille	Muyo	4/31/24 85D					70	01	(L)	"	ਹ -•	e v	~~~	-,- <u>.</u> C	
Pate Time Relinquished by 3014 900 Marsh	Received by	/	Date Time	206	_1.	n	HP Z	12	78	7/	05	/ ~~			L.F. C	
If necessary samples submitted to Hall Enviro	onmental may be subcontracted toot	her accredited Jahorato														<u></u>

Login Sample Receipt Checklist

Client: Vertex Job Number: 885-3647-1

Login Number: 3647 List Source: Eurofins Albuquerque

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	

2

3

<u>ی</u>

o

9

10

Login Sample Receipt Checklist

Client: Vertex Job Number: 885-3647-1

Login Number: 3647
List Source: Eurofins Midland
List Number: 2
List Creation: 05/03/24 11:32 AM

Creator: Rodriguez, Leticia

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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").	N/A	

2

5

4

b

40

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Kent Stallings Vertex 3101 Boyd Dr Carlsbad, New Mexico 88220

Generated 5/24/2024 3:29:00 PM

JOB DESCRIPTION

Stray Cat 8 5 Federal Com #214H

JOB NUMBER

885-4194-1

Eurofins Albuquerque 4901 Hawkins NE Albuquerque NM 87109

Eurofins Albuquerque

Job Notes

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

Authorization

Generated 5/24/2024 3:29:00 PM

Authorized for release by Andy Freeman, Business Unit Manager andy.freeman@et.eurofinsus.com (505)345-3975 Client: Vertex Project/Site: Stray Cat 8 5 Federal Com #214H Laboratory Job ID: 885-4194-1

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
QC Sample Results	35
QC Association Summary	43
Lab Chronicle	50
Certification Summary	59
Chain of Custody	60
Receint Checklists	63

2

3

4

-

Q

9

Client: Vertex Job ID: 885-4194-1

Project/Site: Stray Cat 8 5 Federal Com #214H

Qualifiers

GC VOA

Qualifier Description

S1+ Surrogate recovery exceeds control limits, high biased.

GC Semi VOA

D Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a

dilution may be flagged with a D.

S1- Surrogate recovery exceeds control limits, low biased.

HPLC/IC

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

F1 MS and/or MSD recovery exceeds control limits.

Glossary

CNF

Abbreviation	These commonly used abbreviations may or may not be present in this report.
n	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit

DER Duplicate Error Ratio (normalized absolute difference)

Contains No Free Liquid

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

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

NC Not Calculated

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

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Eurofins Albuquerque

4

3

4

5

6

0

9

10

Case Narrative

Client: Vertex Job ID: 885-4194-1

Project: Stray Cat 8 5 Federal Com #214H

Job ID: 885-4194-1 Eurofins Albuquerque

Job Narrative 885-4194-1

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 5/9/2024 7:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.6°C.

Gasoline Range Organics

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

GC VOA

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

Diesel Range Organics

Method 8015D_DRO: The following sample was diluted due to the nature of the sample matrix: BH24-13 0' (885-4194-5). Elevated reporting limits (RLs) are provided.

Method 8015D_DRO: The following sample was diluted due to the nature of the sample matrix OR abundance of target analytes OR abundance of non-target analytes: BH24-23 0' (885-4194-27). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

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

-6

6

8

9

Client: Vertex Job ID: 885-4194-1

Project/Site: Stray Cat 8 5 Federal Com #214H

Client Sample ID: BH22-10 2'

Date Collected: 05/06/24 14:10 Date Received: 05/09/24 07:45 Lab Sample ID: 885-4194-1

Matrix: Solid

Method: SW846 8015D - Gasoline	Range Organ	ics (GRO) ((GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		05/09/24 15:25	05/11/24 03:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		35 - 166			05/09/24 15:25	05/11/24 03:13	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/09/24 15:25	05/11/24 03:13	1
Ethylbenzene	ND		0.049	mg/Kg		05/09/24 15:25	05/11/24 03:13	1
Toluene	ND		0.049	mg/Kg		05/09/24 15:25	05/11/24 03:13	1
Xylenes, Total	ND		0.097	mg/Kg		05/09/24 15:25	05/11/24 03:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		48 - 145			05/09/24 15:25	05/11/24 03:13	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3	mg/Kg		05/10/24 08:59	05/10/24 12:45	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		05/10/24 08:59	05/10/24 12:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	95		62 - 134			05/10/24 08:59	05/10/24 12:45	1

Method: EPA 300.0 - Anions, Ion C	hromatography						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	280	60	mg/Kg		05/10/24 08:04	05/10/24 18:38	20

Eurofins Albuquerque

Released to Imaging: 6/28/2024 10:19:19 AM

3

5

7

9

10

1'

Client: Vertex Job ID: 885-4194-1

Project/Site: Stray Cat 8 5 Federal Com #214H

Client Sample ID: BH22-10 4'

Date Collected: 05/06/24 14:15 Date Received: 05/09/24 07:45 Lab Sample ID: 885-4194-2

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		05/09/24 15:25	05/11/24 03:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		35 - 166			05/09/24 15:25	05/11/24 03:37	

Analyte	Result Qu	ualifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	0.025	mg/Kg		05/09/24 15:25	05/11/24 03:37	1
Ethylbenzene	ND	0.050	mg/Kg		05/09/24 15:25	05/11/24 03:37	1
Toluene	ND	0.050	mg/Kg		05/09/24 15:25	05/11/24 03:37	1
Xylenes, Total	ND	0.10	mg/Kg		05/09/24 15:25	05/11/24 03:37	1
Surrogate	%Recovery Qu	ualifier Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92	48 - 145			05/09/24 15:25	05/11/24 03:37	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3	mg/Kg		05/10/24 08:59	05/13/24 10:51	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		05/10/24 08:59	05/13/24 10:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	96		62 - 134			05/10/24 08:59	05/13/24 10:51	1

Method: EPA 300.0 - Anions, ion C	nromatograpny						
Analyte	Result Qua	alifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1100	60	mg/Kg		05/10/24 12:53	05/11/24 11:45	20

Client: Vertex Job ID: 885-4194-1

Project/Site: Stray Cat 8 5 Federal Com #214H

Client Sample ID: BH22-11 2'

Date Collected: 05/06/24 13:55 Date Received: 05/09/24 07:45 Lab Sample ID: 885-4194-3

Matrix: Solid

Method: SW846 8015D - Gasoline	Range Organ	ics (GRO) ((GC)					
Analyte Gasoline Range Organics [C6 - C10]	Result ND	Qualifier	RL 4.9	Unit mg/Kg	<u>D</u>	Prepared 05/09/24 15:25	Analyzed 05/11/24 04:24	Dil Fac
Surrogate 4-Bromofluorobenzene (Surr)	- %Recovery	Qualifier	Limits 			Prepared 05/09/24 15:25	Analyzed 05/11/24 04:24	Dil Fac

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/09/24 15:25	05/11/24 04:24	1
Ethylbenzene	ND		0.049	mg/Kg		05/09/24 15:25	05/11/24 04:24	1
Toluene	ND		0.049	mg/Kg		05/09/24 15:25	05/11/24 04:24	1
Xylenes, Total	ND		0.098	mg/Kg		05/09/24 15:25	05/11/24 04:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		48 - 145			05/09/24 15:25	05/11/24 04:24	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.6	mg/Kg		05/10/24 08:59	05/10/24 13:18	1
Motor Oil Range Organics [C28-C40]	ND		43	mg/Kg		05/10/24 08:59	05/10/24 13:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	94		62 - 134			05/10/24 08:59	05/10/24 13:18	1

Method: EPA 300.0 - Anions, Ion C	hromatography						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	980	60	mg/Kg		05/10/24 12:53	05/11/24 12:30	20

3

4

6

8

4.0

4 4

Client: Vertex Job ID: 885-4194-1

Project/Site: Stray Cat 8 5 Federal Com #214H

Client Sample ID: BH22-11 4'

Date Collected: 05/06/24 14:00 Date Received: 05/09/24 07:45 Lab Sample ID: 885-4194-4

Matrix: Solid

Method: SW846 8015D - Gasoline	e Range Organ	ics (GRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		05/09/24 15:25	05/11/24 04:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		35 - 166			05/09/24 15:25	05/11/24 04:47	1

Analyte	Result (Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/09/24 15:25	05/11/24 04:47	1
Ethylbenzene	ND		0.048	mg/Kg		05/09/24 15:25	05/11/24 04:47	1
Toluene	ND		0.048	mg/Kg		05/09/24 15:25	05/11/24 04:47	1
Xylenes, Total	ND		0.096	mg/Kg		05/09/24 15:25	05/11/24 04:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		48 - 145			05/09/24 15:25	05/11/24 04:47	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.1	mg/Kg		05/10/24 08:59	05/10/24 13:29	1
Motor Oil Range Organics [C28-C40]	ND		45	mg/Kg		05/10/24 08:59	05/10/24 13:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	99		62 - 134			05/10/24 08:59	05/10/24 13:29	1

Method: EPA 300.0 - Anions, Ion C	hromatography						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1000	60	mg/Kg		05/10/24 12:53	05/11/24 13:15	20

Eurofins Albuquerque

5

6

8

10

Client: Vertex Job ID: 885-4194-1

Project/Site: Stray Cat 8 5 Federal Com #214H

Client Sample ID: BH24-13 0'

Date Collected: 05/06/24 11:50 Date Received: 05/09/24 07:45 Lab Sample ID: 885-4194-5

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		05/09/24 15:25	05/11/24 05:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1 Promofluorobonzono (Surr)			25 166			05/00/24 15:25	05/11/04 05:11	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		05/09/24 15:25	05/11/24 05:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		35 - 166			05/09/24 15:25	05/11/24 05:11	1

Analyte	Result (Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/09/24 15:25	05/11/24 05:11	1
Ethylbenzene	ND		0.050	mg/Kg		05/09/24 15:25	05/11/24 05:11	1
Toluene	ND		0.050	mg/Kg		05/09/24 15:25	05/11/24 05:11	1
Xylenes, Total	ND		0.099	mg/Kg		05/09/24 15:25	05/11/24 05:11	1
Surrogate	%Recovery (Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		48 - 145			05/09/24 15:25	05/11/24 05:11	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Diesel Range Organics [C10-C28]	4000		96	mg/Kg		05/10/24 08:59	05/10/24 13:39	10
Motor Oil Range Organics [C28-C40]	2600		480	mg/Kg		05/10/24 08:59	05/10/24 13:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
Di-n-octyl phthalate (Surr)		S1- D	62 - 134			05/10/24 08:59	05/10/24 13:39	

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2100	60	mg/Kg		05/10/24 12:53	05/11/24 13:30	20

Client: Vertex Job ID: 885-4194-1

Project/Site: Stray Cat 8 5 Federal Com #214H

Client Sample ID: BH24-13 2'

Date Collected: 05/06/24 12:00

Date Received: 05/09/24 07:45

Lab Sample ID: 885-4194-6

Matrix: Solid

M

D

Prepared

Analyzed Dil Fac

Method: SW846 8015D - Gasoline Rang	ge Organics (GRO) (G	C)	
Analyte	Result Qualifier	RL	Unit

 Gasoline Range Organics [C6 - C10]
 ND
 4.8
 mg/Kg
 05/09/24 15:25
 05/11/24 05:34
 1

 Surrogate
 %Recovery
 Qualifier
 Limits
 Prepared
 Analyzed
 Dil Fac

 Surrogate
 %Recovery
 Qualifier
 Limits
 Prepared
 Analyzed
 Difference

 4-Bromofluorobenzene (Surr)
 96
 35 - 166
 05/09/24 15:25
 05/11/24 05:34

Method: SW846 8021B - Volatile Organic Compounds (GC)

		(- /						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/09/24 15:25	05/11/24 05:34	1
Ethylbenzene	ND		0.048	mg/Kg		05/09/24 15:25	05/11/24 05:34	1
Toluene	ND		0.048	mg/Kg		05/09/24 15:25	05/11/24 05:34	1
Xylenes, Total	ND		0.097	mg/Kg		05/09/24 15:25	05/11/24 05:34	1

 Surrogate
 %Recovery
 Qualifier
 Limits
 Prepared
 Analyzed
 Dil Fac

 4-Bromofluorobenzene (Surr)
 95
 48 - 145
 05/09/24 15:25
 05/11/24 05:34
 1

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		05/10/24 08:59	05/10/24 13:50	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		05/10/24 08:59	05/10/24 13:50	1

 Surrogate
 %Recovery
 Qualifier
 Limits
 Prepared
 Analyzed
 Dil Fac

 Di-n-octyl phthalate (Surr)
 100
 62 - 134
 05/10/24 08:59
 05/10/24 13:50
 1

Method: EPA 300.0 - Anions, Ion Chromatography

 Analyte
 Result Chloride
 Qualifier
 RL Graph
 Unit mg/Kg
 D graph
 Prepared Prepared (05/10/24 12:53)
 Analyzed Dil Fac (05/10/24 12:53)
 Dil Fac (05/10/24 12:53)

Client: Vertex Job ID: 885-4194-1

Project/Site: Stray Cat 8 5 Federal Com #214H

Client Sample ID: BH24-13 4'

Date Collected: 05/06/24 12:05 Date Received: 05/09/24 07:45 Lab Sample ID: 885-4194-7

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		05/09/24 15:25	05/11/24 05:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		35 - 166			05/09/24 15:25	05/11/24 05:57	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/09/24 15:25	05/11/24 05:57	1
Ethylbenzene	ND		0.049	mg/Kg		05/09/24 15:25	05/11/24 05:57	1
Toluene	ND		0.049	mg/Kg		05/09/24 15:25	05/11/24 05:57	1
Xylenes, Total	ND		0.097	mg/Kg		05/09/24 15:25	05/11/24 05:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		48 - 145			05/09/24 15:25	05/11/24 05:57	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.1	mg/Kg		05/10/24 08:59	05/10/24 14:01	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		05/10/24 08:59	05/10/24 14:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	95	-	62 - 134			05/10/24 08:59	05/10/24 14:01	1

Method: EPA 300.0 - Anions, Ion C	hromatography						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	81	60	mg/Kg		05/10/24 12:53	05/11/24 14:31	20

Client: Vertex Job ID: 885-4194-1

Project/Site: Stray Cat 8 5 Federal Com #214H

Client Sample ID: BH24-14 0'

Date Collected: 05/06/24 11:40 Date Received: 05/09/24 07:45 Lab Sample ID: 885-4194-8

Matrix: Solid

Method: SW846 8015D - Gasoline Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		05/09/24 15:25	05/11/24 06:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		35 - 166			05/09/24 15:25	05/11/24 06:21	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/09/24 15:25	05/11/24 06:21	
Ethylbenzene	ND		0.048	mg/Kg		05/09/24 15:25	05/11/24 06:21	1
Toluene	ND		0.048	mg/Kg		05/09/24 15:25	05/11/24 06:21	1
Xylenes, Total	ND		0.096	mg/Kg		05/09/24 15:25	05/11/24 06:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		48 - 145			05/09/24 15:25	05/11/24 06:21	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.8	mg/Kg		05/10/24 08:59	05/10/24 14:12	1
Motor Oil Range Organics [C28-C40]	ND		44	mg/Kg		05/10/24 08:59	05/10/24 14:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	93		62 - 134			05/10/24 08:59	05/10/24 14:12	1

Method: EPA 300.0 - Anions, Ion C	hromatography						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND ND	60	mg/Kg		05/10/24 12:53	05/11/24 14:46	20

Eurofins Albuquerque

3

4

6

8

46

4 4

Client: Vertex Job ID: 885-4194-1

Project/Site: Stray Cat 8 5 Federal Com #214H

Client Sample ID: BH24-14 2'

Lab Sample ID: 885-4194-9

Date Collected: 05/06/24 11:45 Matrix: Solid

Date Received: 05/09/24 07:45

Method: SW846 8015D - Gasoline					_			
Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		05/09/24 15:25	05/11/24 06:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		35 - 166			05/09/24 15:25	05/11/24 06:44	1
Method: SW846 8021B - Volatile	•			Unit	n	Dronarod	Analyzod	Dil Fac
Method. 544040 0021D - Volatile	Organic Comp	ounas (GC))					
Analyte	•	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
	•			Unit mg/Kg	<u>D</u>	Prepared 05/09/24 15:25	Analyzed 05/11/24 06:44	Dil Fac
Analyte	Result		RL		<u>D</u>			Dil Fac
Analyte Benzene	- Result		RL 0.024	mg/Kg	<u>D</u>	05/09/24 15:25	05/11/24 06:44	Dil Fac 1 1
Analyte Benzene Ethylbenzene	Result ND ND		0.024 0.048	mg/Kg mg/Kg	<u>D</u>	05/09/24 15:25 05/09/24 15:25	05/11/24 06:44 05/11/24 06:44	Dil Fac 1 1 1 1
Analyte Benzene Ethylbenzene Toluene	Result ND ND ND	Qualifier	0.024 0.048 0.048	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/09/24 15:25 05/09/24 15:25 05/09/24 15:25	05/11/24 06:44 05/11/24 06:44 05/11/24 06:44	Dil Fac 1 1 1 1 1 Dil Fac

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2	mg/Kg		05/10/24 08:59	05/13/24 11:14	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		05/10/24 08:59	05/13/24 11:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	94		62 - 134			05/10/24 08:59	05/13/24 11:14	1

Method: EPA 300.0 - Anions, Ion C	hromatography						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	66	60	mg/Kg		05/10/24 12:53	05/11/24 15:01	20

Client: Vertex Job ID: 885-4194-1

Project/Site: Stray Cat 8 5 Federal Com #214H

Client Sample ID: BH24-15 0'

Date Collected: 05/06/24 10:45 Date Received: 05/09/24 07:45 Lab Sample ID: 885-4194-10

Matrix: Solid

– Method: SW846 8015D - Gasoline	e Range Organ	nics (GRO) ((GC)					
Analyte Gasoline Range Organics [C6 - C10]	Result ND	Qualifier		Unit mg/Kg	<u>D</u>	Prepared 05/09/24 15:25	Analyzed 05/11/24 07:08	Dil Fac
Surrogate 4-Bromofluorobenzene (Surr)		Qualifier	Limits 35 - 166			Prepared 05/09/24 15:25	Analyzed 05/11/24 07:08	Dil Fac

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/09/24 15:25	05/11/24 07:08	1
Ethylbenzene	ND		0.049	mg/Kg		05/09/24 15:25	05/11/24 07:08	1
Toluene	ND		0.049	mg/Kg		05/09/24 15:25	05/11/24 07:08	1
Xylenes, Total	ND		0.099	mg/Kg		05/09/24 15:25	05/11/24 07:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		48 - 145			05/09/24 15:25	05/11/24 07:08	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4	mg/Kg		05/10/24 08:59	05/13/24 11:38	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		05/10/24 08:59	05/13/24 11:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	95		62 - 134			05/10/24 08:59	05/13/24 11:38	1

Method: EPA 300.0 - Anions, Ion C	hromatography						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	60	mg/Kg		05/10/24 12:53	05/11/24 15:16	20

Client: Vertex Job ID: 885-4194-1

Project/Site: Stray Cat 8 5 Federal Com #214H

Client Sample ID: BH24-15 2'

Date Collected: 05/06/24 10:50 Date Received: 05/09/24 07:45 Lab Sample ID: 885-4194-11

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		05/09/24 15:25	05/11/24 07:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		35 - 166			05/09/24 15:25	05/11/24 07:31	

Analyte	Result Q	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND ND		0.024	mg/Kg		05/09/24 15:25	05/11/24 07:31	1
Ethylbenzene	ND		0.048	mg/Kg		05/09/24 15:25	05/11/24 07:31	1
Toluene	ND		0.048	mg/Kg		05/09/24 15:25	05/11/24 07:31	1
Xylenes, Total	ND		0.096	mg/Kg		05/09/24 15:25	05/11/24 07:31	1
Surrogate	%Recovery Q	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		48 - 145			05/09/24 15:25	05/11/24 07:31	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7	mg/Kg		05/10/24 08:59	05/10/24 14:44	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		05/10/24 08:59	05/10/24 14:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	104		62 - 134			05/10/24 08:59	05/10/24 14:44	1

Method: EPA 300.0 - Anions, Ion C	hromatography						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	67	60	mg/Kg		05/10/24 12:53	05/11/24 15:31	20

Client: Vertex Job ID: 885-4194-1

Project/Site: Stray Cat 8 5 Federal Com #214H

Client Sample ID: BH24-16 2'

Lab Sample ID: 885-4194-12

Date Collected: 05/06/24 11:05 Matrix: Solid Date Received: 05/09/24 07:45

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		05/09/24 15:25	05/11/24 07:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		35 - 166			05/09/24 15:25	05/11/24 07:55	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC))					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/09/24 15:25	05/11/24 07:55	1
Ethylbenzene	ND		0.050	mg/Kg		05/09/24 15:25	05/11/24 07:55	1
Toluene	ND		0.050	mg/Kg		05/09/24 15:25	05/11/24 07:55	1
Xylenes, Total	ND		0.10	mg/Kg		05/09/24 15:25	05/11/24 07:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		48 - 145			05/09/24 15:25	05/11/24 07:55	1
Method: SW846 8015D - Diesel R	ange Organics	(DRO) (GC	;)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2	mg/Kg		05/10/24 08:59	05/10/24 14:55	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		05/10/24 08:59	05/10/24 14:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	95		62 - 134			05/10/24 08:59	05/10/24 14:55	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy						
		O 11.01					A l	B.: E
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client: Vertex Job ID: 885-4194-1

Project/Site: Stray Cat 8 5 Federal Com #214H

Client Sample ID: BH22-16 4'

Date Collected: 05/06/24 11:10 Date Received: 05/09/24 07:45 Lab Sample ID: 885-4194-13

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)										
Analyte Gasoline Range Organics [C6 - C10]	Result ND	Qualifier	RL 4.8	Unit mg/Kg	<u>D</u>	Prepared 05/10/24 12:26	Analyzed 05/13/24 20:48	Dil Fac		
Surrogate 4-Bromofluorobenzene (Surr)		Qualifier	25 - 166			Prepared 05/10/24 12:26	Analyzed 05/13/24 20:48	Dil Fac		

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/10/24 12:26	05/13/24 20:48	1
Ethylbenzene	ND		0.048	mg/Kg		05/10/24 12:26	05/13/24 20:48	1
Toluene	ND		0.048	mg/Kg		05/10/24 12:26	05/13/24 20:48	1
Xylenes, Total	ND		0.096	mg/Kg		05/10/24 12:26	05/13/24 20:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		48 - 145			05/10/24 12:26	05/13/24 20:48	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3	mg/Kg		05/13/24 09:08	05/13/24 11:36	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		05/13/24 09:08	05/13/24 11:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	98	-	62 - 134			05/13/24 09:08	05/13/24 11:36	1

Method: EPA 300.0 - Anions, ion Chromatography									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	67	F1	60	mg/Kg		05/11/24 12:20	05/11/24 23:52	20

Client: Vertex Job ID: 885-4194-1

Project/Site: Stray Cat 8 5 Federal Com #214H

Client Sample ID: BH22-17 2'

Date Collected: 05/06/24 11:30 Date Received: 05/09/24 07:45 Lab Sample ID: 885-4194-14

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		05/10/24 12:26	05/13/24 21:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		35 - 166			05/10/24 12:26	05/13/24 21:54	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/10/24 12:26	05/13/24 21:54	1
Ethylbenzene	ND		0.049	mg/Kg		05/10/24 12:26	05/13/24 21:54	1
Toluene	ND		0.049	mg/Kg		05/10/24 12:26	05/13/24 21:54	1
Xylenes, Total	ND		0.098	mg/Kg		05/10/24 12:26	05/13/24 21:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		48 - 145			05/10/24 12:26	05/13/24 21:54	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.7	mg/Kg		05/13/24 09:08	05/13/24 11:47	1
Motor Oil Range Organics [C28-C40]	ND		43	mg/Kg		05/13/24 09:08	05/13/24 11:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	97		62 - 134			05/13/24 09:08	05/13/24 11:47	1

Method: EPA 300.0 - Anions, ion C	nromatograpny						
Analyte	Result Qu	ualifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	250	60	mg/Kg		05/11/24 12:20	05/12/24 00:37	20

Client: Vertex Job ID: 885-4194-1

Project/Site: Stray Cat 8 5 Federal Com #214H

Client Sample ID: BH22-17 4'

Date Collected: 05/06/24 11:35 Date Received: 05/09/24 07:45 Lab Sample ID: 885-4194-15

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		05/10/24 12:26	05/13/24 22:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		35 - 166			05/10/24 12:26	05/13/24 22:15	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND ND		0.023	mg/Kg		05/10/24 12:26	05/13/24 22:15	1
Ethylbenzene	ND		0.047	mg/Kg		05/10/24 12:26	05/13/24 22:15	1
Toluene	ND		0.047	mg/Kg		05/10/24 12:26	05/13/24 22:15	1
Xylenes, Total	ND		0.093	mg/Kg		05/10/24 12:26	05/13/24 22:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			48 - 145			05/10/24 12:26	05/13/24 22:15	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7	mg/Kg		05/13/24 09:08	05/13/24 11:58	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		05/13/24 09:08	05/13/24 11:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	114		62 - 134			05/13/24 09:08	05/13/24 11:58	1

Method: EPA 300.0 - Anions, ion C	nromatograpi	ny						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	160		60	mg/Kg		05/11/24 12:20	05/12/24 00:52	20

Client: Vertex Job ID: 885-4194-1

Project/Site: Stray Cat 8 5 Federal Com #214H

Client Sample ID: BH22-18 0'

Date Collected: 05/06/24 12:15

Date Received: 05/09/24 07:45

Lab Sample ID: 885-4194-16

Matrix: Solid

Method: SW846 8015D - Gasoline	e Range Organ	ics (GRO) ((GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		05/10/24 12:26	05/13/24 22:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		35 - 166			05/10/24 12:26	05/13/24 22:59	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	MD		0.024	mg/Kg		05/10/24 12:26	05/13/24 22:59	1
Ethylbenzene	ND		0.049	mg/Kg		05/10/24 12:26	05/13/24 22:59	1
Toluene	ND		0.049	mg/Kg		05/10/24 12:26	05/13/24 22:59	1
Xylenes, Total	ND		0.097	mg/Kg		05/10/24 12:26	05/13/24 22:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			48 - 145			05/10/24 12:26	05/13/24 22:59	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		05/13/24 09:08	05/13/24 12:09	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		05/13/24 09:08	05/13/24 12:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	97		62 - 134			05/13/24 09:08	05/13/24 12:09	1

Method: EPA 300.0 - Anions, ion C	nromatograpny						
Analyte	Result Qual	lifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	110	60	mg/Kg		05/11/24 12:20	05/12/24 01:07	20

Client: Vertex Job ID: 885-4194-1

Project/Site: Stray Cat 8 5 Federal Com #214H

Client Sample ID: BH24-18 2'

Date Collected: 05/06/24 12:20

Lab Sample ID: 885-4194-17 Matrix: Solid

Date Received: 05/09/24 07:45

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		05/10/24 12:26	05/13/24 23:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		35 - 166			05/10/24 12:26	05/13/24 23:20	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/10/24 12:26	05/13/24 23:20	1
Ethylbenzene	ND		0.047	mg/Kg		05/10/24 12:26	05/13/24 23:20	1
Toluene	ND		0.047	mg/Kg		05/10/24 12:26	05/13/24 23:20	1
Xylenes, Total	ND		0.094	mg/Kg		05/10/24 12:26	05/13/24 23:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		48 - 145			05/10/24 12:26	05/13/24 23:20	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.7	mg/Kg		05/13/24 09:08	05/13/24 12:19	1
Motor Oil Range Organics [C28-C40]	ND		44	mg/Kg		05/13/24 09:08	05/13/24 12:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	94		62 - 134			05/13/24 09:08	05/13/24 12:19	1

Method: EPA 300.0 - Anions, Ion C	hromatography						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	60	mg/Kg		05/11/24 12:20	05/12/24 01:23	20

Client: Vertex Job ID: 885-4194-1

Project/Site: Stray Cat 8 5 Federal Com #214H

Client Sample ID: BH22-19 0'

Date Collected: 05/06/24 10:25 Date Received: 05/09/24 07:45 Lab Sample ID: 885-4194-18

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		05/10/24 12:26	05/13/24 23:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		35 - 166			05/10/24 12:26	05/13/24 23:42	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/10/24 12:26	05/13/24 23:42	1
Ethylbenzene	ND		0.048	mg/Kg		05/10/24 12:26	05/13/24 23:42	1
Toluene	ND		0.048	mg/Kg		05/10/24 12:26	05/13/24 23:42	1
Xylenes, Total	ND		0.096	mg/Kg		05/10/24 12:26	05/13/24 23:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		48 - 145			05/10/24 12:26	05/13/24 23:42	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4	mg/Kg		05/13/24 09:08	05/13/24 12:30	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		05/13/24 09:08	05/13/24 12:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	97		62 - 134			05/13/24 09:08	05/13/24 12:30	1

Method: EPA 300.0 - Anions, Ion C	hromatography						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND —	60	mg/Kg		05/11/24 12:20	05/12/24 01:38	20

Client: Vertex Job ID: 885-4194-1

Project/Site: Stray Cat 8 5 Federal Com #214H

Client Sample ID: BH24-19 2'

Date Collected: 05/06/24 10:30 Date Received: 05/09/24 07:45 Lab Sample ID: 885-4194-19

Matrix: Solid

Method: SW846 8015D - Gasoline	e Range Organ	ics (GRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.6	mg/Kg		05/10/24 12:26	05/14/24 00:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		35 - 166			05/10/24 12:26	05/14/24 00:04	1

Analyte	Result (Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND ND		0.023	mg/Kg		05/10/24 12:26	05/14/24 00:04	1
Ethylbenzene	ND		0.046	mg/Kg		05/10/24 12:26	05/14/24 00:04	1
Toluene	ND		0.046	mg/Kg		05/10/24 12:26	05/14/24 00:04	1
Xylenes, Total	ND		0.092	mg/Kg		05/10/24 12:26	05/14/24 00:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		48 - 145			05/10/24 12:26	05/14/24 00:04	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.9	mg/Kg		05/13/24 09:08	05/13/24 12:41	1
Motor Oil Range Organics [C28-C40]	ND		45	mg/Kg		05/13/24 09:08	05/13/24 12:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	96		62 - 134			05/13/24 09:08	05/13/24 12:41	1

Method: EPA 300.0 - Anions, ion C	nromatograpny						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND —	60	mg/Kg		05/11/24 12:20	05/12/24 06:26	20

Client: Vertex Job ID: 885-4194-1

Project/Site: Stray Cat 8 5 Federal Com #214H

Client Sample ID: BH24-20 0'

Date Collected: 05/06/24 12:30
Date Received: 05/09/24 07:45

Lab Sample ID: 885-4194-20

Matrix: Solid

_ Method: SW846 8015D - Gasolin	e Range Orgar	nics (GRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		05/10/24 12:26	05/14/24 00:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		35 - 166			05/10/24 12:26	05/14/24 00:25	1

4-Bromofluorobenzene (Surr)	87		35 - 166			05/10/24 12:26	05/14/24 00:25	
- Method: SW846 8021B - Volati	le Organic Comp	ounds (GC))					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	MD		0.024	mg/Kg		05/10/24 12:26	05/14/24 00:25	
Ethylbenzene	ND		0.048	mg/Kg		05/10/24 12:26	05/14/24 00:25	•
Toluene	ND		0.048	mg/Kg		05/10/24 12:26	05/14/24 00:25	1
Xylenes, Total	ND		0.096	mg/Kg		05/10/24 12:26	05/14/24 00:25	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		48 - 145			05/10/24 12:26	05/14/24 00:25	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.6	mg/Kg		05/13/24 09:08	05/13/24 12:52	1
Motor Oil Range Organics [C28-C40]	ND		43	mg/Kg		05/13/24 09:08	05/13/24 12:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	95		62 - 134			05/13/24 09:08	05/13/24 12:52	1

Method: EPA 300.0 - Anions, ion C	nromatograpny						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND —	60	mg/Kg		05/11/24 12:20	05/12/24 02:23	20

Client: Vertex Job ID: 885-4194-1

Project/Site: Stray Cat 8 5 Federal Com #214H

Client Sample ID: BH24-20 2'

Lab Sample ID: 885-4194-21

Matrix: Solid

Date Collected: 05/06/24 12:35 Date Received: 05/09/24 07:45

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		05/10/24 12:26	05/14/24 00:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		35 - 166			05/10/24 12:26	05/14/24 00:47	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC))					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/10/24 12:26	05/14/24 00:47	1
Ethylbenzene	ND		0.048	mg/Kg		05/10/24 12:26	05/14/24 00:47	1
Toluene	ND		0.048	mg/Kg		05/10/24 12:26	05/14/24 00:47	1
Xylenes, Total	ND		0.096	mg/Kg		05/10/24 12:26	05/14/24 00:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		48 - 145			05/10/24 12:26	05/14/24 00:47	1
Method: SW846 8015D - Diesel R	Range Organics	s (DRO) (GC	;)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.9	mg/Kg		05/13/24 09:08	05/13/24 13:02	1
Motor Oil Range Organics [C28-C40]	ND		44	mg/Kg		05/13/24 09:08	05/13/24 13:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	98		62 - 134			05/13/24 09:08	05/13/24 13:02	1
Method: EPA 300.0 - Anions, Ion	Chromatogran	hv						
Method. EPA 300.0 - Allions, ion	Cilioniatograp	, y						

60

mg/Kg

ND

05/12/24 02:38

20

05/11/24 12:20

Client: Vertex Job ID: 885-4194-1

Project/Site: Stray Cat 8 5 Federal Com #214H

Client Sample ID: BH24-21 0'

Date Collected: 05/06/24 12:50 Date Received: 05/09/24 07:45 Lab Sample ID: 885-4194-22

Matrix: Solid

Method: SW846 8015D - Gasoline	e Range Orgar	ics (GRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		05/10/24 12:26	05/14/24 01:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		35 - 166			05/10/24 12:26	05/14/24 01:09	1

Analyte	Result (Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/10/24 12:26	05/14/24 01:09	1
Ethylbenzene	ND		0.048	mg/Kg		05/10/24 12:26	05/14/24 01:09	1
Toluene	ND		0.048	mg/Kg		05/10/24 12:26	05/14/24 01:09	1
Xylenes, Total	ND		0.096	mg/Kg		05/10/24 12:26	05/14/24 01:09	1
Surrogate	%Recovery (Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		48 - 145			05/10/24 12:26	05/14/24 01:09	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9	mg/Kg		05/13/24 09:08	05/13/24 13:13	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		05/13/24 09:08	05/13/24 13:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	96		62 - 134			05/13/24 09:08	05/13/24 13:13	1

Method: EPA 300.0 - Anions, ion C	nromatograpny						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND —	61	mg/Kg		05/11/24 12:20	05/12/24 02:53	20

Eurofins Albuquerque

2

4

6

8

10

Client: Vertex Job ID: 885-4194-1

Project/Site: Stray Cat 8 5 Federal Com #214H

Client Sample ID: BH24-21 2'

Date Collected: 05/06/24 12:55 Date Received: 05/09/24 07:45 Lab Sample ID: 885-4194-23

Matrix: Solid

Method: SW846 8015D - Gasoline	e Range Orgar	nics (GRO)	(GC)					
Analyte Gasoline Range Organics [C6 - C10]	Result ND	Qualifier	RL 4.8	Mnit mg/Kg	D	Prepared 05/10/24 12:26	Analyzed 05/14/24 01:31	Dil Fac
Surrogate 4-Bromofluorobenzene (Surr)		Qualifier	25 - 166			Prepared 05/10/24 12:26	Analyzed 05/14/24 01:31	Dil Fac

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/10/24 12:26	05/14/24 01:31	1
Ethylbenzene	ND		0.048	mg/Kg		05/10/24 12:26	05/14/24 01:31	1
Toluene	ND		0.048	mg/Kg		05/10/24 12:26	05/14/24 01:31	1
Xylenes, Total	ND		0.096	mg/Kg		05/10/24 12:26	05/14/24 01:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		48 - 145			05/10/24 12:26	05/14/24 01:31	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7	mg/Kg		05/13/24 09:08	05/13/24 13:24	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		05/13/24 09:08	05/13/24 13:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	101		62 - 134			05/13/24 09:08	05/13/24 13:24	1

Method: EPA 300.0 - Anions, ion C	nromatograpny						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND —	61	mg/Kg		05/11/24 12:20	05/12/24 03:09	20

Client: Vertex Job ID: 885-4194-1

Project/Site: Stray Cat 8 5 Federal Com #214H

Client Sample ID: BH24-22 0'

Date Collected: 05/06/24 13:25 Date Received: 05/09/24 07:45 Lab Sample ID: 885-4194-24

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		05/10/24 12:26	05/14/24 01:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		35 - 166			05/10/24 12:26	05/14/24 01:53	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/10/24 12:26	05/14/24 01:53	1
Ethylbenzene	ND		0.048	mg/Kg		05/10/24 12:26	05/14/24 01:53	1
Toluene	ND		0.048	mg/Kg		05/10/24 12:26	05/14/24 01:53	1
Xylenes, Total	ND		0.096	mg/Kg		05/10/24 12:26	05/14/24 01:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		48 - 145			05/10/24 12:26	05/14/24 01:53	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Diesel Range Organics [C10-C28]	27		8.8	mg/Kg		05/13/24 09:08	05/13/24 13:35	1
Motor Oil Range Organics [C28-C40]	ND		44	mg/Kg		05/13/24 09:08	05/13/24 13:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	104		62 - 134			05/13/24 09:08	05/13/24 13:35	1

Method: EPA 300.0 - Anions, ion C	nromatograpny						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	540	60	mg/Kg		05/11/24 12:20	05/12/24 03:24	20

Client: Vertex Job ID: 885-4194-1

Project/Site: Stray Cat 8 5 Federal Com #214H

Client Sample ID: BH24-22 2'

Date Collected: 05/06/24 13:35 Date Received: 05/09/24 07:45 Lab Sample ID: 885-4194-25

Matrix: Solid

Method: SW846 8015D - Gasoline	e Range Organ	ics (GRO) ((GC)				Analyzed	
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		05/10/24 12:26	05/14/24 02:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		35 - 166			05/10/24 12:26	05/14/24 02:14	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	MD		0.024	mg/Kg		05/10/24 12:26	05/14/24 02:14	1
Ethylbenzene	ND		0.048	mg/Kg		05/10/24 12:26	05/14/24 02:14	1
Toluene	ND		0.048	mg/Kg		05/10/24 12:26	05/14/24 02:14	1
Xylenes, Total	ND		0.096	mg/Kg		05/10/24 12:26	05/14/24 02:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		48 - 145			05/10/24 12:26	05/14/24 02:14	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.6	mg/Kg		05/13/24 09:08	05/13/24 13:46	1
Motor Oil Range Organics [C28-C40]	ND		43	mg/Kg		05/13/24 09:08	05/13/24 13:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	98		62 - 134			05/13/24 09:08	05/13/24 13:46	1

Method: EPA 300.0 - Anions, ion C	nromatograpny						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	670	60	mg/Kg		05/11/24 12:20	05/12/24 03:39	20

Client: Vertex Job ID: 885-4194-1

Project/Site: Stray Cat 8 5 Federal Com #214H

Client Sample ID: BH24-22 4'

Date Collected: 05/06/24 13:40 Date Received: 05/09/24 07:45 Lab Sample ID: 885-4194-26

Matrix: Solid

Method: SW846 8015D - Gasoline	e Range Organ	ics (GRO) ((GC)				Analyzed	
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		05/13/24 10:53	05/15/24 22:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		35 - 166			05/13/24 10:53	05/15/24 22:30	1

Analyte	Result (Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/13/24 10:53	05/15/24 22:30	1
Ethylbenzene	ND		0.049	mg/Kg		05/13/24 10:53	05/15/24 22:30	1
Toluene	ND		0.049	mg/Kg		05/13/24 10:53	05/15/24 22:30	1
Xylenes, Total	ND		0.099	mg/Kg		05/13/24 10:53	05/15/24 22:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			48 - 145			05/13/24 10:53	05/15/24 22:30	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		05/13/24 13:27	05/13/24 18:12	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		05/13/24 13:27	05/13/24 18:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	88		62 - 134			05/13/24 13:27	05/13/24 18:12	1

Method: EPA 300.0 - Anions, Ion C	hromatography						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1100	61	mg/Kg		05/13/24 14:48	05/13/24 23:19	20

Client: Vertex Job ID: 885-4194-1

Project/Site: Stray Cat 8 5 Federal Com #214H

Client Sample ID: BH24-23 0'

Date Collected: 05/06/24 13:05 Date Received: 05/09/24 07:45 Lab Sample ID: 885-4194-27

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		05/13/24 10:53	05/15/24 22:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		35 - 166			05/13/24 10:53	05/15/24 22:53	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	ND		0.025	mg/Kg		05/13/24 10:53	05/15/24 22:53	1
Ethylbenzene	ND		0.050	mg/Kg		05/13/24 10:53	05/15/24 22:53	1
Toluene	ND		0.050	mg/Kg		05/13/24 10:53	05/15/24 22:53	1
Xylenes, Total	ND		0.10	mg/Kg		05/13/24 10:53	05/15/24 22:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		48 - 145			05/13/24 10:53	05/15/24 22:53	1

7011C001C1 y	Qualifici				cpui cu	rinaryzou	<i>Dii i uo</i>
86		48 - 145			05/13/24 10:53	05/15/24 22:53	1
ange Organics	s (DRO) (GO	;)					
Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
3300		92	mg/Kg		05/13/24 13:27	05/14/24 10:29	10
1800		460	mg/Kg		05/13/24 13:27	05/14/24 10:29	10
%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
0	S1- D	62 - 134			05/13/24 13:27	05/14/24 10:29	10
Chromatograp	ohy						
Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
3900		150	mg/Kg		05/13/24 14:48	05/15/24 20:17	50
	ange Organics Result 3300 1800 %Recovery 0 Chromatograp Result	ange Organics (DRO) (GO Result 3300 1800 %Recovery Qualifier 0 S1- D Chromatography Result Qualifier	Result Qualifier Limits	### Result Qualifier Limits S1-D 62-134 Chromatography Result Qualifier RL Unit MRL Unit MRL Unit MRL Unit MRL Unit MRL Unit Un	### According to Provide the Company of the Company	Result Qualifier RL Unit D Prepared	Result Qualifier RL Unit D Prepared Analyzed

А

8

10

11

Client: Vertex Job ID: 885-4194-1

Project/Site: Stray Cat 8 5 Federal Com #214H

Client Sample ID: BH24-23 2'

Date Collected: 05/06/24 13:10 Date Received: 05/09/24 07:45 Lab Sample ID: 885-4194-28

Matrix: Solid

Method: SW846 8015D - Gasoline	e Range Orgar	ics (GRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		05/13/24 10:53	05/15/24 23:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		35 - 166			05/13/24 10:53	05/15/24 23:17	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	MD		0.024	mg/Kg		05/13/24 10:53	05/15/24 23:17	1
Ethylbenzene	ND		0.048	mg/Kg		05/13/24 10:53	05/15/24 23:17	1
Toluene	ND		0.048	mg/Kg		05/13/24 10:53	05/15/24 23:17	1
Xylenes, Total	ND		0.095	mg/Kg		05/13/24 10:53	05/15/24 23:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		48 - 145			05/13/24 10:53	05/15/24 23:17	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2	mg/Kg		05/13/24 13:27	05/14/24 14:53	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		05/13/24 13:27	05/14/24 14:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	95		62 - 134			05/13/24 13:27	05/14/24 14:53	1

Method: EPA 300.0 - Anions, Ion C	hromatography						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	430	60	mg/Kg		05/13/24 14:48	05/13/24 23:43	20

Client: Vertex Job ID: 885-4194-1

Project/Site: Stray Cat 8 5 Federal Com #214H

Client Sample ID: BH24-23 4'

Date Collected: 05/06/24 13:15 Date Received: 05/09/24 07:45 Lab Sample ID: 885-4194-29

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		05/13/24 10:53	05/15/24 23:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		35 - 166			05/13/24 10:53	05/15/24 23:40	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/13/24 10:53	05/15/24 23:40	1
Ethylbenzene	ND		0.050	mg/Kg		05/13/24 10:53	05/15/24 23:40	1
Toluene	ND		0.050	mg/Kg		05/13/24 10:53	05/15/24 23:40	1
Xylenes, Total	ND		0.099	mg/Kg		05/13/24 10:53	05/15/24 23:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		48 - 145			05/13/24 10:53	05/15/24 23:40	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.1	mg/Kg		05/13/24 13:27	05/14/24 14:29	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		05/13/24 13:27	05/14/24 14:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	95		62 - 134			05/13/24 13:27	05/14/24 14:29	1

Method: EPA 300.0 - Anions, Ion C	hromatography						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	340	60	mg/Kg		05/13/24 14:48	05/13/24 23:56	20

Client: Vertex Job ID: 885-4194-1

Project/Site: Stray Cat 8 5 Federal Com #214H

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

Lab Sample ID: MB 885-4694/1-A Client Sample ID: Method Blank **Matrix: Solid**

Analysis Batch: 4841

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		05/09/24 15:25	05/10/24 11:35	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106	35 - 166	05/09/24 15:25	05/10/24 11:35	1

Lab Sample ID: LCS 885-4694/2-A

Matrix: Solid

Analysis Batch: 4841

Gildin Gampio ID: Lab Gontroi Ga	mipio
Prep Type: Tot	al/NA
	4004

Prep Batch: 4694

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 4694

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits 25.0 23.2 mg/Kg 93 70 - 130 Gasoline Range Organics [C6 -

C10]

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	198	S1+	35 - 166

Lab Sample ID: MB 885-4749/1-A

Matrix: Solid Analysis Batch: 4951

Prep Type: Total/NA

Prep Batch: 4749

Client Sample ID: Method Blank

MB MB

Analyte	Result Q	quaimer	KL	Unit	U	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg	_	05/10/24 12:26	05/13/24 17:11	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	DII Fac
4-Bromofluorobenzene (Surr)	89		35 - 166	05/10/24 12:26	05/13/24 17:11	1

Lab Sample ID: LCS 885-4749/3-A

Matrix: Solid

Analysis Batch: 4951

Client Sample ID:	Lab	Control Sample	
	_		

Prep Type: Total/NA

Prep Batch: 4749

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics [C6 -	25.0	20.9		mg/Kg		84	70 - 130	

C10]

LCS LCS

Surrogate	%Recovery	Qualifier	Limits	
4-Bromofluorobenzene (Surr)	185	S1+	35 166	

Lab Sample ID: MB 885-4838/1-A

Released to Imaging: 6/28/2024 10:19:19 AM

Matrix: Solid

Analysis Batch: 5117

Analyzed

Prepared

Prep Type: Total/NA

Prep Batch: 4838

Dil Fac

мв мв Analyte

Result Qualifier

Gasoline Range Organics [C6 - C10]	ND	5.0	mg/Kg	05/13/24 10:53	05/15/24 18:58	1
	MB MB					

RL

Unit

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90	35 - 166	05/13/24 10:53	05/15/24 18:58	1

Lab Sample ID: LCS 885-4838/2-A

QC Sample Results

Client: Vertex Job ID: 885-4194-1

Spike

Added

25.0

Project/Site: Stray Cat 8 5 Federal Com #214H

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

Client Sample ID: Lab Control Sample

70 - 130

96

Prep Type: Total/NA Prep Batch: 4838

LCS LCS Result Qualifier %Rec Limits Unit

mg/Kg

Gasoline Range Organics [C6 -C10]

Analyte

Matrix: Solid

Analysis Batch: 5117

LCS LCS

%Recovery Qualifier Limits Surrogate S1+ 35 - 166 4-Bromofluorobenzene (Surr) 194

24.1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-4694/1-A

Matrix: Solid

Analysis Batch: 4843

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

Prep Batch: 4694

MB MB

Analyte	Result Q	Qualifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	0.025	mg/Kg		05/09/24 15:25	05/10/24 11:35	1
Ethylbenzene	ND	0.050	mg/Kg		05/09/24 15:25	05/10/24 11:35	1
Toluene	ND	0.050	mg/Kg		05/09/24 15:25	05/10/24 11:35	1
Xylenes, Total	ND	0.10	mg/Kg		05/09/24 15:25	05/10/24 11:35	1

MB MB

%Recovery Qualifier Dil Fac Surrogate Limits Prepared Analyzed 48 - 145 05/09/24 15:25 05/10/24 11:35 4-Bromofluorobenzene (Surr) 99

Lab Sample ID: LCS 885-4694/3-A

Matrix: Solid

Analysis Batch: 4843

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 4694

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits D Benzene 1.00 0.958 mg/Kg 96 70 - 130 Ethylbenzene 1.00 0.923 mg/Kg 92 70 - 130 m,p-Xylene 2.00 1.89 mg/Kg 95 70 - 130 o-Xylene 1.00 0.925 mg/Kg 92 70 - 130 Toluene 1.00 0.912 mg/Kg 70 - 130

LCS LCS

Qualifier Limits Surrogate %Recovery 4-Bromofluorobenzene (Surr) 102 48 - 145

Lab Sample ID: MB 885-4749/1-A

Matrix: Solid

Analysis Batch: 4952

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 4749

	MB	MB
ali da	Desuit	0

Analyte	Result (Qualifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	0.025	mg/Kg		05/10/24 12:26	05/13/24 17:11	1
Ethylbenzene	ND	0.050	mg/Kg		05/10/24 12:26	05/13/24 17:11	1
Toluene	ND	0.050	mg/Kg		05/10/24 12:26	05/13/24 17:11	1
Xylenes, Total	ND	0.10	mg/Kg		05/10/24 12:26	05/13/24 17:11	1

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 05/10/24 12:26 89 48 - 145 05/13/24 17:11

Client: Vertex Job ID: 885-4194-1

Project/Site: Stray Cat 8 5 Federal Com #214H

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

Lab Sample ID: LCS 885-4749/4-A

Analysis Batch: 4952

Matrix: Solid

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 4749

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	1.00	0.870		mg/Kg		87	70 - 130	
Ethylbenzene	1.00	0.873		mg/Kg		87	70 - 130	
m,p-Xylene	2.00	1.74		mg/Kg		87	70 - 130	
o-Xylene	1.00	0.867		mg/Kg		87	70 - 130	
Toluene	1.00	0.874		mg/Kg		87	70 - 130	

LCS LCS

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 48 - 145 88

Lab Sample ID: 885-4194-13 MS Client Sample ID: BH22-16 4'

Analysis Batch: 4952

Matrix: Solid Prep Type: Total/NA

Prep Batch: 4749

MS MS %Rec Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Benzene ND 0.963 0.807 84 70 - 130 mg/Kg Ethylbenzene ND 0.963 0.814 mg/Kg 84 70 - 130 m,p-Xylene ND 1.93 1.62 mg/Kg 84 70 - 130 o-Xylene ND 0.963 0.808 mg/Kg 84 70 - 130 0.963 0.811 70 - 130 Toluene ND mg/Kg

MS MS

%Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 88 48 - 145

Lab Sample ID: 885-4194-13 MSD

Matrix: Solid

Analysis Batch: 4952

Client Sample ID: BH22-16 4'

Prep Type: Total/NA

Prep Batch: 4749

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	ND		0.970	0.814		mg/Kg		84	70 - 130	1	20
Ethylbenzene	ND		0.970	0.829		mg/Kg		86	70 - 130	2	20
m,p-Xylene	ND		1.94	1.65		mg/Kg		85	70 - 130	2	20
o-Xylene	ND		0.970	0.824		mg/Kg		85	70 - 130	2	20
Toluene	ND		0.970	0.817		mg/Kg		84	70 - 130	1	20

MSD MSD

%Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 90 48 - 145

Lab Sample ID: MB 885-4838/1-A

Matrix: Solid

Analysis Batch: 5119

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

Prep Batch: 4838

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/13/24 10:53	05/15/24 18:58	1
Ethylbenzene	ND		0.050	mg/Kg		05/13/24 10:53	05/15/24 18:58	1
Toluene	ND		0.050	mg/Kg		05/13/24 10:53	05/15/24 18:58	1
Xylenes, Total	ND		0.10	mg/Kg		05/13/24 10:53	05/15/24 18:58	1

Client: Vertex Job ID: 885-4194-1

Project/Site: Stray Cat 8 5 Federal Com #214H

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

Matrix: Solid

Analysis Batch: 5119

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 4838

MB MB

%Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 91 48 - 145 05/13/24 10:53 05/15/24 18:58

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 4838

Lab Sample ID: LCS 885-4838/3-A **Matrix: Solid**

Lab Sample ID: MB 885-4838/1-A

Analysis Batch: 5119

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	1.00	0.951		mg/Kg		95	70 - 130	
Ethylbenzene	1.00	0.902		mg/Kg		90	70 - 130	
m,p-Xylene	2.00	1.83		mg/Kg		91	70 - 130	
o-Xylene	1.00	0.894		mg/Kg		89	70 - 130	
Toluene	1.00	0.893		mg/Kg		89	70 - 130	

LCS LCS

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

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

Lab Sample ID: MB 885-4729/1-A

Matrix: Solid

Analysis Batch: 4816

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4729

Qualifier Unit Prepared Dil Fac Result RL Analyzed Diesel Range Organics [C10-C28] ND 10 05/10/24 08:59 05/10/24 11:09 mg/Kg Motor Oil Range Organics [C28-C40] ND 50 mg/Kg 05/10/24 08:59 05/10/24 11:09

MB MB

MR MR

Surrogate %Recovery Qualifier Limits Prepared Analyzed Di-n-octyl phthalate (Surr) 62 - 134 05/10/24 08:59 05/10/24 11:09 91

Lab Sample ID: LCS 885-4729/2-A

Matrix: Solid

Analysis Batch: 4816

Client Sample ID: Lab Control Sample

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits **Diesel Range Organics** 50.0 91 45.6 mg/Kg 60 - 135

[C10-C28]

LCS LCS

Surrogate %Recovery Qualifier Limits Di-n-octyl phthalate (Surr) 114 62 - 134

Lab Sample ID: 885-4194-12 MS

Released to Imaging: 6/28/2024 10:19:19 AM

Matrix: Solid

Analysis Batch: 4816

Client Sample ID: BH24-16 2'

Prep Type: Total/NA

Prep Batch: 4729

Sample Sample Spike MS MS %Rec Result Qualifier babbA Result Qualifier %Rec Analyte Unit D Limits **Diesel Range Organics** ND 47.1 46.7 mg/Kg 99 44 - 136

[C10-C28]

Eurofins Albuquerque

Dil Fac

Prep Type: Total/NA

Prep Batch: 4729

Lab Sample ID: 885-4194-12 MS

Client: Vertex Job ID: 885-4194-1

Project/Site: Stray Cat 8 5 Federal Com #214H

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

MS MS

%Recovery Qualifier

119

Matrix: Solid

Analysis Batch: 4816

Client Sample ID: BH24-16 2' Prep Type: Total/NA

Prep Batch: 4729

Lab Sample ID: 885-4194-12 MSD

Matrix: Solid

Surrogate

Analysis Batch: 4816

Di-n-octyl phthalate (Surr)

Client Sample ID: BH24-16 2'

Prep Type: Total/NA

Prep Batch: 4729 RPD

MSD MSD Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit **Diesel Range Organics** ND 46.0 45.0 mg/Kg 98 44 - 136 32

Limits

62 - 134

[C10-C28]

MSD MSD Surrogate %Recovery Qualifier Limits Di-n-octyl phthalate (Surr) 116 62 - 134

Client Sample ID: Method Blank

Lab Sample ID: MB 885-4818/1-A **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 4900 Prep Batch: 4818 MB MB

Analyte Result Qualifier

RL Unit D Prepared Analyzed Dil Fac Diesel Range Organics [C10-C28] ND 10 mg/Kg 05/13/24 09:08 05/13/24 11:15 ND 50 Motor Oil Range Organics [C28-C40] 05/13/24 09:08 05/13/24 11:15 mg/Kg

MB MB %Recovery Surrogate Qualifier Limits Prepared Analyzed Dil Fac Di-n-octyl phthalate (Surr) 05/13/24 09:08 91 62 - 134 05/13/24 11:15

Lab Sample ID: LCS 885-4818/2-A Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 4900 Prep Batch: 4818 LCS LCS Spike %Rec

Added Unit %Rec Analyte Result Qualifier Limits Diesel Range Organics 50.0 46.7 60 - 135 mg/Kg

[C10-C28]

LCS LCS Limits Surrogate %Recovery Qualifier Di-n-octyl phthalate (Surr) 112 62 - 134

ND

Lab Sample ID: MB 885-4855/1-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 4850

Motor Oil Range Organics [C28-C40]

MB MB Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac 10 Diesel Range Organics [C10-C28] ND 05/13/24 13:27 05/13/24 16:56 mg/Kg

50

mg/Kg

05/13/24 13:27

MB MB

Qualifier Surrogate %Recovery Limits Prepared Dil Fac Analyzed 62 - 134 05/13/24 13:27 Di-n-octyl phthalate (Surr) 91 05/13/24 16:56

Eurofins Albuquerque

Prep Type: Total/NA

Prep Batch: 4855

05/13/24 16:56

Spike

Added

50.0

Job ID: 885-4194-1

Project/Site: Stray Cat 8 5 Federal Com #214H

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

Lab Sample ID: LCS 885-4855/2-A Matrix: Solid

Analysis Batch: 4850

Diesel Range Organics

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 4855

LCS LCS Result Qualifier %Rec Limits Unit 48.7 mg/Kg 97 60 - 135

[C10-C28]

Analyte

Client: Vertex

LCS LCS

%Recovery Surrogate Qualifier Limits 62 - 134 Di-n-octyl phthalate (Surr) 117

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-4723/1-A

Matrix: Solid

Analysis Batch: 4796

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 4723

Result Qualifier

мв мв

RL Unit Dil Fac Analyte D Analyzed Prepared Chloride 3 O 05/10/24 08:04 05/10/24 10:32 ND mg/Kg

Lab Sample ID: LCS 885-4723/2-A

Matrix: Solid

Analysis Batch: 4796

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 4723

Spike LCS LCS %Rec Added Result Qualifier Analyte Unit D %Rec Limits Chloride 30.0 28.2 mg/Kg 94 90 - 110

Lab Sample ID: MB 885-4756/1-A

Matrix: Solid

Analysis Batch: 4805

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 4756

MB MB

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Chloride 3.0 05/10/24 12:53 ND mg/Kg 05/11/24 11:12

Lab Sample ID: LCS 885-4756/2-A

Matrix: Solid

Analysis Batch: 4805

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 4756

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit D %Rec Limits Chloride 30.0 28.2 90 - 110 mg/Kg

Lab Sample ID: 885-4194-3 MS

Matrix: Solid

Analysis Batch: 4805

Client Sample ID: BH22-11 2'

Prep Type: Total/NA

Prep Batch: 4756

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Chloride 980 30.1 1000 4 83 50 - 150 mg/Kg

Lab Sample ID: 885-4194-3 MSD

Matrix: Solid

Analysis Batch: 4805

Client Sample ID: BH22-11 2'

Prep Type: Total/NA Prep Batch: 4756

%Rec RPD RPD Limit

Sample Sample Spike MSD MSD Qualifier Result Added Result Qualifier %Rec Limits Analyte Unit Chloride 980 29.7 1010 115 50 - 150 20 4 mg/Kg

Client: Vertex

Lab Sample ID: MB 885-4798/1-A

Lab Sample ID: LCS 885-4798/2-A

Matrix: Solid

Matrix: Solid

Analyte

Chloride

Analysis Batch: 4805

Analysis Batch: 4805

Job ID: 885-4194-1

Project/Site: Stray Cat 8 5 Federal Com #214H

Method: 300.0 - Anions, Ion Chromatography (Continued)

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

Prep Batch: 4798

мв мв

Analyte Result Qualifier RLUnit D Prepared Analyzed Dil Fac Chloride ND 3.0 mg/Kg 05/11/24 12:20 05/11/24 23:21

Client Sample ID: Lab Control Sample

90 - 110

92

Prep Type: Total/NA

Prep Batch: 4798

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

mg/Kg

27.7

Lab Sample ID: 885-4194-13 MS Client Sample ID: BH22-16 4' **Matrix: Solid**

Prep Type: Total/NA Prep Batch: 4798

Analysis Batch: 4805 MS MS Sample Sample Spike %Rec

Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Chloride 67 F1 30.0 92.7 mg/Kg 87 50 - 150

30.0

Lab Sample ID: 885-4194-13 MSD Client Sample ID: BH22-16 4' Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 4805 Prep Batch: 4798 MSD MSD RPD Sample Sample Spike %Rec

Result Qualifier Added %Rec Limit Analyte Result Qualifier Unit Limits Chloride 67 F1 30.0 92.3 85 50 - 150 mg/Kg

Lab Sample ID: MB 885-4873/1-A Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 4913 Prep Batch: 4873

MR MR

Analyte Result Qualifier RL Unit Prepared Analyzed 3.0 Chloride ND mg/Kg 05/13/24 14:48 05/13/24 22:04

Lab Sample ID: LCS 885-4873/2-A Client Sample ID: Lab Control Sample

Matrix: Solid Analysis Batch: 4913

Spike LCS LCS

Added Analyte Result Qualifier Unit D %Rec Limits Chloride 30.0 30.2 mg/Kg 101 90 - 110

Lab Sample ID: MB 885-4913/19 Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 4913

мв мв

Result Qualifier RL Unit Analyte Prepared Analyzed Dil Fac Chloride ND 0.50 mg/Kg 05/13/24 07:52

Lab Sample ID: MRL 885-4913/18 **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 4913						
s	Spike	MRL MRL			%Rec	
Analyte A	dded Re	esult Qualifier	Unit D	%Rec	Limits	
Chloride	0.500	0.543	ma/L	109	50 - 150	

Eurofins Albuquerque

Prep Type: Total/NA

Dil Fac

Prep Type: Total/NA Prep Batch: 4873

QC Sample Results

Client: Vertex Job ID: 885-4194-1

Project/Site: Stray Cat 8 5 Federal Com #214H

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-4995/1-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 5082

Prep Type: Total/NA

Prep Batch: 4995

Result Qualifier RL Unit Dil Fac Analyte D Prepared Analyzed 05/15/24 07:57 Chloride ND1.5 mg/Kg 05/15/24 10:03

Lab Sample ID: MRL 885-4995/3-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 5082 Prep Batch: 4995

Spike MRL MRL %Rec Added Result Qualifier Analyte Unit D %Rec Limits

MB MB

Chloride 1.50 1.57 mg/L 105 50 - 150

Client: Vertex Job ID: 885-4194-1

Project/Site: Stray Cat 8 5 Federal Com #214H

GC VOA

Prep Batch: 4694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4194-1	BH22-10 2'	Total/NA	Solid	5030C	
885-4194-2	BH22-10 4'	Total/NA	Solid	5030C	
885-4194-3	BH22-11 2'	Total/NA	Solid	5030C	
885-4194-4	BH22-11 4'	Total/NA	Solid	5030C	
885-4194-5	BH24-13 0'	Total/NA	Solid	5030C	
885-4194-6	BH24-13 2'	Total/NA	Solid	5030C	
885-4194-7	BH24-13 4'	Total/NA	Solid	5030C	
885-4194-8	BH24-14 0'	Total/NA	Solid	5030C	
885-4194-9	BH24-14 2'	Total/NA	Solid	5030C	
885-4194-10	BH24-15 0'	Total/NA	Solid	5030C	
885-4194-11	BH24-15 2'	Total/NA	Solid	5030C	
885-4194-12	BH24-16 2'	Total/NA	Solid	5030C	
MB 885-4694/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-4694/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-4694/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Prep Batch: 4749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4194-13	BH22-16 4'	Total/NA	Solid	5030C	
885-4194-14	BH22-17 2'	Total/NA	Solid	5030C	
885-4194-15	BH22-17 4'	Total/NA	Solid	5030C	
885-4194-16	BH22-18 0'	Total/NA	Solid	5030C	
885-4194-17	BH24-18 2'	Total/NA	Solid	5030C	
885-4194-18	BH22-19 0'	Total/NA	Solid	5030C	
885-4194-19	BH24-19 2'	Total/NA	Solid	5030C	
885-4194-20	BH24-20 0'	Total/NA	Solid	5030C	
885-4194-21	BH24-20 2'	Total/NA	Solid	5030C	
885-4194-22	BH24-21 0'	Total/NA	Solid	5030C	
885-4194-23	BH24-21 2'	Total/NA	Solid	5030C	
885-4194-24	BH24-22 0'	Total/NA	Solid	5030C	
885-4194-25	BH24-22 2'	Total/NA	Solid	5030C	
MB 885-4749/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-4749/3-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-4749/4-A	Lab Control Sample	Total/NA	Solid	5030C	
885-4194-13 MS	BH22-16 4'	Total/NA	Solid	5030C	
885-4194-13 MSD	BH22-16 4'	Total/NA	Solid	5030C	

Prep Batch: 4838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Bat
885-4194-26	BH24-22 4'	Total/NA	Solid	5030C	
885-4194-27	BH24-23 0'	Total/NA	Solid	5030C	
885-4194-28	BH24-23 2'	Total/NA	Solid	5030C	
885-4194-29	BH24-23 4'	Total/NA	Solid	5030C	
MB 885-4838/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-4838/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-4838/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Analysis Batch: 4841

Released to Imaging: 6/28/2024 10:19:19 AM

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4194-1	BH22-10 2'	Total/NA	Solid	8015D	4694
885-4194-2	BH22-10 4'	Total/NA	Solid	8015D	4694

Eurofins Albuquerque

_

1

6

0

9

10

1

Client: Vertex Job ID: 885-4194-1

Project/Site: Stray Cat 8 5 Federal Com #214H

GC VOA (Continued)

Analysis Batch: 4841 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4194-3	BH22-11 2'	Total/NA	Solid	8015D	4694
885-4194-4	BH22-11 4'	Total/NA	Solid	8015D	4694
885-4194-5	BH24-13 0'	Total/NA	Solid	8015D	4694
885-4194-6	BH24-13 2'	Total/NA	Solid	8015D	4694
885-4194-7	BH24-13 4'	Total/NA	Solid	8015D	4694
885-4194-8	BH24-14 0'	Total/NA	Solid	8015D	4694
885-4194-9	BH24-14 2'	Total/NA	Solid	8015D	4694
885-4194-10	BH24-15 0'	Total/NA	Solid	8015D	4694
885-4194-11	BH24-15 2'	Total/NA	Solid	8015D	4694
885-4194-12	BH24-16 2'	Total/NA	Solid	8015D	4694
MB 885-4694/1-A	Method Blank	Total/NA	Solid	8015D	4694
LCS 885-4694/2-A	Lab Control Sample	Total/NA	Solid	8015D	4694

Analysis Batch: 4843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4194-1	BH22-10 2'	Total/NA	Solid	8021B	4694
885-4194-2	BH22-10 4'	Total/NA	Solid	8021B	4694
885-4194-3	BH22-11 2'	Total/NA	Solid	8021B	4694
885-4194-4	BH22-11 4'	Total/NA	Solid	8021B	4694
885-4194-5	BH24-13 0'	Total/NA	Solid	8021B	4694
885-4194-6	BH24-13 2'	Total/NA	Solid	8021B	4694
885-4194-7	BH24-13 4'	Total/NA	Solid	8021B	4694
885-4194-8	BH24-14 0'	Total/NA	Solid	8021B	4694
885-4194-9	BH24-14 2'	Total/NA	Solid	8021B	4694
885-4194-10	BH24-15 0'	Total/NA	Solid	8021B	4694
885-4194-11	BH24-15 2'	Total/NA	Solid	8021B	4694
885-4194-12	BH24-16 2'	Total/NA	Solid	8021B	4694
MB 885-4694/1-A	Method Blank	Total/NA	Solid	8021B	4694
LCS 885-4694/3-A	Lab Control Sample	Total/NA	Solid	8021B	4694

Analysis Batch: 4951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4194-13	BH22-16 4'	Total/NA	Solid	8015D	4749
885-4194-14	BH22-17 2'	Total/NA	Solid	8015D	4749
885-4194-15	BH22-17 4'	Total/NA	Solid	8015D	4749
885-4194-16	BH22-18 0'	Total/NA	Solid	8015D	4749
885-4194-17	BH24-18 2'	Total/NA	Solid	8015D	4749
885-4194-18	BH22-19 0'	Total/NA	Solid	8015D	4749
885-4194-19	BH24-19 2'	Total/NA	Solid	8015D	4749
885-4194-20	BH24-20 0'	Total/NA	Solid	8015D	4749
885-4194-21	BH24-20 2'	Total/NA	Solid	8015D	4749
885-4194-22	BH24-21 0'	Total/NA	Solid	8015D	4749
885-4194-23	BH24-21 2'	Total/NA	Solid	8015D	4749
885-4194-24	BH24-22 0'	Total/NA	Solid	8015D	4749
885-4194-25	BH24-22 2'	Total/NA	Solid	8015D	4749
MB 885-4749/1-A	Method Blank	Total/NA	Solid	8015D	4749
LCS 885-4749/3-A	Lab Control Sample	Total/NA	Solid	8015D	4749

Analysis Batch: 4952

Released to Imaging: 6/28/2024 10:19:19 AM

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4194-13	BH22-16 4'	Total/NA	Solid	8021B	4749

Eurofins Albuquerque

Page 44 of 63

Client: Vertex Job ID: 885-4194-1

Project/Site: Stray Cat 8 5 Federal Com #214H

GC VOA (Continued)

Analysis Batch: 4952 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4194-14	BH22-17 2'	Total/NA	Solid	8021B	4749
885-4194-15	BH22-17 4'	Total/NA	Solid	8021B	4749
885-4194-16	BH22-18 0'	Total/NA	Solid	8021B	4749
885-4194-17	BH24-18 2'	Total/NA	Solid	8021B	4749
885-4194-18	BH22-19 0'	Total/NA	Solid	8021B	4749
885-4194-19	BH24-19 2'	Total/NA	Solid	8021B	4749
885-4194-20	BH24-20 0'	Total/NA	Solid	8021B	4749
885-4194-21	BH24-20 2'	Total/NA	Solid	8021B	4749
885-4194-22	BH24-21 0'	Total/NA	Solid	8021B	4749
885-4194-23	BH24-21 2'	Total/NA	Solid	8021B	4749
885-4194-24	BH24-22 0'	Total/NA	Solid	8021B	4749
885-4194-25	BH24-22 2'	Total/NA	Solid	8021B	4749
MB 885-4749/1-A	Method Blank	Total/NA	Solid	8021B	4749
LCS 885-4749/4-A	Lab Control Sample	Total/NA	Solid	8021B	4749
885-4194-13 MS	BH22-16 4'	Total/NA	Solid	8021B	4749
885-4194-13 MSD	BH22-16 4'	Total/NA	Solid	8021B	4749

Analysis Batch: 5117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4194-26	BH24-22 4'	Total/NA	Solid	8015D	4838
885-4194-27	BH24-23 0'	Total/NA	Solid	8015D	4838
885-4194-28	BH24-23 2'	Total/NA	Solid	8015D	4838
885-4194-29	BH24-23 4'	Total/NA	Solid	8015D	4838
MB 885-4838/1-A	Method Blank	Total/NA	Solid	8015D	4838
LCS 885-4838/2-A	Lab Control Sample	Total/NA	Solid	8015D	4838

Analysis Batch: 5119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4194-26	BH24-22 4'	Total/NA	Solid	8021B	4838
885-4194-27	BH24-23 0'	Total/NA	Solid	8021B	4838
885-4194-28	BH24-23 2'	Total/NA	Solid	8021B	4838
885-4194-29	BH24-23 4'	Total/NA	Solid	8021B	4838
MB 885-4838/1-A	Method Blank	Total/NA	Solid	8021B	4838
LCS 885-4838/3-A	Lab Control Sample	Total/NA	Solid	8021B	4838

GC Semi VOA

Prep Batch: 4729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
885-4194-1	BH22-10 2'	Total/NA	Solid	SHAKE	
885-4194-2	BH22-10 4'	Total/NA	Solid	SHAKE	
885-4194-3	BH22-11 2'	Total/NA	Solid	SHAKE	
885-4194-4	BH22-11 4'	Total/NA	Solid	SHAKE	
885-4194-5	BH24-13 0'	Total/NA	Solid	SHAKE	
885-4194-6	BH24-13 2'	Total/NA	Solid	SHAKE	
885-4194-7	BH24-13 4'	Total/NA	Solid	SHAKE	
885-4194-8	BH24-14 0'	Total/NA	Solid	SHAKE	
885-4194-9	BH24-14 2'	Total/NA	Solid	SHAKE	
885-4194-10	BH24-15 0'	Total/NA	Solid	SHAKE	
885-4194-11	BH24-15 2'	Total/NA	Solid	SHAKE	
885-4194-12	BH24-16 2'	Total/NA	Solid	SHAKE	

Eurofins Albuquerque

Page 45 of 63

Released to Imaging: 6/28/2024 10:19:19 AM

2

6

Ω

10

1'

Client: Vertex Job ID: 885-4194-1

Project/Site: Stray Cat 8 5 Federal Com #214H

GC Semi VOA (Continued)

Prep Batch: 4729 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
MB 885-4729/1-A	Method Blank	Total/NA	Solid	SHAKE
LCS 885-4729/2-A	Lab Control Sample	Total/NA	Solid	SHAKE
885-4194-12 MS	BH24-16 2'	Total/NA	Solid	SHAKE
885-4194-12 MSD	BH24-16 2'	Total/NA	Solid	SHAKE

Analysis Batch: 4816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4194-1	BH22-10 2'	Total/NA	Solid	8015D	4729
885-4194-3	BH22-11 2'	Total/NA	Solid	8015D	4729
885-4194-4	BH22-11 4'	Total/NA	Solid	8015D	4729
885-4194-5	BH24-13 0'	Total/NA	Solid	8015D	4729
885-4194-6	BH24-13 2'	Total/NA	Solid	8015D	4729
885-4194-7	BH24-13 4'	Total/NA	Solid	8015D	4729
885-4194-8	BH24-14 0'	Total/NA	Solid	8015D	4729
885-4194-11	BH24-15 2'	Total/NA	Solid	8015D	4729
885-4194-12	BH24-16 2'	Total/NA	Solid	8015D	4729
MB 885-4729/1-A	Method Blank	Total/NA	Solid	8015D	4729
LCS 885-4729/2-A	Lab Control Sample	Total/NA	Solid	8015D	4729
885-4194-12 MS	BH24-16 2'	Total/NA	Solid	8015D	4729
885-4194-12 MSD	BH24-16 2'	Total/NA	Solid	8015D	4729

Prep Batch: 4818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4194-13	BH22-16 4'	Total/NA	Solid	SHAKE	
885-4194-14	BH22-17 2'	Total/NA	Solid	SHAKE	
885-4194-15	BH22-17 4'	Total/NA	Solid	SHAKE	
885-4194-16	BH22-18 0'	Total/NA	Solid	SHAKE	
885-4194-17	BH24-18 2'	Total/NA	Solid	SHAKE	
885-4194-18	BH22-19 0'	Total/NA	Solid	SHAKE	
885-4194-19	BH24-19 2'	Total/NA	Solid	SHAKE	
885-4194-20	BH24-20 0'	Total/NA	Solid	SHAKE	
885-4194-21	BH24-20 2'	Total/NA	Solid	SHAKE	
885-4194-22	BH24-21 0'	Total/NA	Solid	SHAKE	
885-4194-23	BH24-21 2'	Total/NA	Solid	SHAKE	
885-4194-24	BH24-22 0'	Total/NA	Solid	SHAKE	
885-4194-25	BH24-22 2'	Total/NA	Solid	SHAKE	
MB 885-4818/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-4818/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 4848

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4194-2	BH22-10 4'	Total/NA	Solid	8015D	4729
885-4194-9	BH24-14 2'	Total/NA	Solid	8015D	4729
885-4194-10	BH24-15 0'	Total/NA	Solid	8015D	4729

Analysis Batch: 4850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4194-26	BH24-22 4'	Total/NA	Solid	8015D	4855
MB 885-4855/1-A	Method Blank	Total/NA	Solid	8015D	4855
LCS 885-4855/2-A	Lab Control Sample	Total/NA	Solid	8015D	4855

Eurofins Albuquerque

9

4

7

9

10

1

otins Albuquerqu

Client: Vertex Job ID: 885-4194-1

Project/Site: Stray Cat 8 5 Federal Com #214H

GC Semi VOA

Prep Batch: 4855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4194-26	BH24-22 4'	Total/NA	Solid	SHAKE	
885-4194-27	BH24-23 0'	Total/NA	Solid	SHAKE	
885-4194-28	BH24-23 2'	Total/NA	Solid	SHAKE	
885-4194-29	BH24-23 4'	Total/NA	Solid	SHAKE	
MB 885-4855/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-4855/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 4900

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4194-13	BH22-16 4'	Total/NA	Solid	8015D	4818
885-4194-14	BH22-17 2'	Total/NA	Solid	8015D	4818
885-4194-15	BH22-17 4'	Total/NA	Solid	8015D	4818
885-4194-16	BH22-18 0'	Total/NA	Solid	8015D	4818
885-4194-17	BH24-18 2'	Total/NA	Solid	8015D	4818
885-4194-18	BH22-19 0'	Total/NA	Solid	8015D	4818
885-4194-19	BH24-19 2'	Total/NA	Solid	8015D	4818
885-4194-20	BH24-20 0'	Total/NA	Solid	8015D	4818
885-4194-21	BH24-20 2'	Total/NA	Solid	8015D	4818
885-4194-22	BH24-21 0'	Total/NA	Solid	8015D	4818
885-4194-23	BH24-21 2'	Total/NA	Solid	8015D	4818
885-4194-24	BH24-22 0'	Total/NA	Solid	8015D	4818
885-4194-25	BH24-22 2'	Total/NA	Solid	8015D	4818
MB 885-4818/1-A	Method Blank	Total/NA	Solid	8015D	4818
LCS 885-4818/2-A	Lab Control Sample	Total/NA	Solid	8015D	4818

Analysis Batch: 5004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4194-27	BH24-23 0'	Total/NA	Solid	8015D	4855
885-4194-28	BH24-23 2'	Total/NA	Solid	8015D	4855
885-4194-29	BH24-23 4'	Total/NA	Solid	8015D	4855

HPLC/IC

Prep Batch: 4723

Lab Sample ID 885-4194-1	Client Sample ID BH22-10 2'	Prep Type Total/NA	Matrix Solid	Method P	rep Batch
MB 885-4723/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-4723/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Prep Batch: 4756

Released to Imaging: 6/28/2024 10:19:19 AM

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4194-2	BH22-10 4'	Total/NA	Solid	300_Prep	
885-4194-3	BH22-11 2'	Total/NA	Solid	300_Prep	
885-4194-4	BH22-11 4'	Total/NA	Solid	300_Prep	
885-4194-5	BH24-13 0'	Total/NA	Solid	300_Prep	
885-4194-6	BH24-13 2'	Total/NA	Solid	300_Prep	
885-4194-7	BH24-13 4'	Total/NA	Solid	300_Prep	
885-4194-8	BH24-14 0'	Total/NA	Solid	300_Prep	
885-4194-9	BH24-14 2'	Total/NA	Solid	300_Prep	
885-4194-10	BH24-15 0'	Total/NA	Solid	300_Prep	
885-4194-11	BH24-15 2'	Total/NA	Solid	300 Prep	

Eurofins Albuquerque

2

5

7

8

10

11

Client: Vertex Job ID: 885-4194-1

Project/Site: Stray Cat 8 5 Federal Com #214H

HPLC/IC (Continued)

Prep Batch: 4756 (Continued)

Lab Sample ID 885-4194-12	Client Sample ID BH24-16 2'	Prep Type Total/NA	Solid	Method 300_Prep	Prep Batch
MB 885-4756/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-4756/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-4194-3 MS	BH22-11 2'	Total/NA	Solid	300_Prep	
885-4194-3 MSD	BH22-11 2'	Total/NA	Solid	300_Prep	

Analysis Batch: 4796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4194-1	BH22-10 2'	Total/NA	Solid	300.0	4723
MB 885-4723/1-A	Method Blank	Total/NA	Solid	300.0	4723
LCS 885-4723/2-A	Lab Control Sample	Total/NA	Solid	300.0	4723

Prep Batch: 4798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4194-13	BH22-16 4'	Total/NA	Solid	300_Prep	
885-4194-14	BH22-17 2'	Total/NA	Solid	300_Prep	
885-4194-15	BH22-17 4'	Total/NA	Solid	300_Prep	
885-4194-16	BH22-18 0'	Total/NA	Solid	300_Prep	
885-4194-17	BH24-18 2'	Total/NA	Solid	300_Prep	
885-4194-18	BH22-19 0'	Total/NA	Solid	300_Prep	
885-4194-19	BH24-19 2'	Total/NA	Solid	300_Prep	
885-4194-20	BH24-20 0'	Total/NA	Solid	300_Prep	
885-4194-21	BH24-20 2'	Total/NA	Solid	300_Prep	
885-4194-22	BH24-21 0'	Total/NA	Solid	300_Prep	
885-4194-23	BH24-21 2'	Total/NA	Solid	300_Prep	
885-4194-24	BH24-22 0'	Total/NA	Solid	300_Prep	
885-4194-25	BH24-22 2'	Total/NA	Solid	300_Prep	
MB 885-4798/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-4798/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-4194-13 MS	BH22-16 4'	Total/NA	Solid	300_Prep	
885-4194-13 MSD	BH22-16 4'	Total/NA	Solid	300_Prep	

Analysis Batch: 4805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4194-2	BH22-10 4'	Total/NA	Solid	300.0	4756
885-4194-3	BH22-11 2'	Total/NA	Solid	300.0	4756
885-4194-4	BH22-11 4'	Total/NA	Solid	300.0	4756
885-4194-5	BH24-13 0'	Total/NA	Solid	300.0	4756
885-4194-7	BH24-13 4'	Total/NA	Solid	300.0	4756
885-4194-8	BH24-14 0'	Total/NA	Solid	300.0	4756
885-4194-9	BH24-14 2'	Total/NA	Solid	300.0	4756
885-4194-10	BH24-15 0'	Total/NA	Solid	300.0	4756
885-4194-11	BH24-15 2'	Total/NA	Solid	300.0	4756
885-4194-12	BH24-16 2'	Total/NA	Solid	300.0	4756
885-4194-13	BH22-16 4'	Total/NA	Solid	300.0	4798
885-4194-14	BH22-17 2'	Total/NA	Solid	300.0	4798
885-4194-15	BH22-17 4'	Total/NA	Solid	300.0	4798
885-4194-16	BH22-18 0'	Total/NA	Solid	300.0	4798
885-4194-17	BH24-18 2'	Total/NA	Solid	300.0	4798
885-4194-18	BH22-19 0'	Total/NA	Solid	300.0	4798
885-4194-19	BH24-19 2'	Total/NA	Solid	300.0	4798

Eurofins Albuquerque

Page 48 of 63

-3

4

6

8

9

10

11

5/24/2024

Client: Vertex Job ID: 885-4194-1

Project/Site: Stray Cat 8 5 Federal Com #214H

HPLC/IC (Continued)

Analysis Batch: 4805 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4194-20	BH24-20 0'	Total/NA	Solid	300.0	4798
885-4194-21	BH24-20 2'	Total/NA	Solid	300.0	4798
885-4194-22	BH24-21 0'	Total/NA	Solid	300.0	4798
885-4194-23	BH24-21 2'	Total/NA	Solid	300.0	4798
885-4194-24	BH24-22 0'	Total/NA	Solid	300.0	4798
885-4194-25	BH24-22 2'	Total/NA	Solid	300.0	4798
MB 885-4756/1-A	Method Blank	Total/NA	Solid	300.0	4756
MB 885-4798/1-A	Method Blank	Total/NA	Solid	300.0	4798
LCS 885-4756/2-A	Lab Control Sample	Total/NA	Solid	300.0	4756
LCS 885-4798/2-A	Lab Control Sample	Total/NA	Solid	300.0	4798
885-4194-3 MS	BH22-11 2'	Total/NA	Solid	300.0	4756
885-4194-3 MSD	BH22-11 2'	Total/NA	Solid	300.0	4756
885-4194-13 MS	BH22-16 4'	Total/NA	Solid	300.0	4798
885-4194-13 MSD	BH22-16 4'	Total/NA	Solid	300.0	4798

Prep Batch: 4873

Lab Sample ID Client Sample ID		Prep Type	Matrix	Method	Prep Batch
885-4194-26	BH24-22 4'	Total/NA	Solid	300_Prep	
885-4194-27	BH24-23 0'	Total/NA	Solid	300_Prep	
885-4194-28	BH24-23 2'	Total/NA	Solid	300_Prep	
885-4194-29	BH24-23 4'	Total/NA	Solid	300_Prep	
MB 885-4873/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-4873/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 4913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4194-6	BH24-13 2'	Total/NA	Solid	300.0	4756
885-4194-26	BH24-22 4'	Total/NA	Solid	300.0	4873
885-4194-28	BH24-23 2'	Total/NA	Solid	300.0	4873
885-4194-29	BH24-23 4'	Total/NA	Solid	300.0	4873
MB 885-4873/1-A	Method Blank	Total/NA	Solid	300.0	4873
MB 885-4913/19	Method Blank	Total/NA	Solid	300.0	
LCS 885-4873/2-A	Lab Control Sample	Total/NA	Solid	300.0	4873
MRL 885-4913/18	Lab Control Sample	Total/NA	Solid	300.0	

Prep Batch: 4995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-4995/1-A	Method Blank	Total/NA	Solid	300_Prep	
MRL 885-4995/3-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 5082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4194-27	BH24-23 0'	Total/NA	Solid	300.0	4873
MB 885-4995/1-A	Method Blank	Total/NA	Solid	300.0	4995
MRI 885-4995/3-A	Lab Control Sample	Total/NA	Solid	300.0	4995

Client Sample ID: BH22-10 2'

Date Collected: 05/06/24 14:10

Lab Sample ID: 885-4194-1

Matrix: Solid

Date Received: 05/09/24 07:45

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			4694	JP	EET ALB	05/09/24 15:25
Total/NA	Analysis	8015D		1	4841	JP	EET ALB	05/11/24 03:13
Total/NA	Prep	5030C			4694	JP	EET ALB	05/09/24 15:25
Total/NA	Analysis	8021B		1	4843	JP	EET ALB	05/11/24 03:13
Total/NA	Prep	SHAKE			4729	JU	EET ALB	05/10/24 08:59
Total/NA	Analysis	8015D		1	4816	JU	EET ALB	05/10/24 12:45
Total/NA	Prep	300_Prep			4723	JT	EET ALB	05/10/24 08:04
Total/NA	Analysis	300.0		20	4796	RC	EET ALB	05/10/24 18:38

Client Sample ID: BH22-10 4' Lab Sample ID: 885-4194-2

Date Collected: 05/06/24 14:15

Date Received: 05/09/24 07:45

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			4694	JP	EET ALB	05/09/24 15:25
Total/NA	Analysis	8015D		1	4841	JP	EET ALB	05/11/24 03:37
Total/NA	Prep	5030C			4694	JP	EET ALB	05/09/24 15:25
Total/NA	Analysis	8021B		1	4843	JP	EET ALB	05/11/24 03:37
Total/NA	Prep	SHAKE			4729	JU	EET ALB	05/10/24 08:59
Total/NA	Analysis	8015D		1	4848	JU	EET ALB	05/13/24 10:51
Total/NA	Prep	300_Prep			4756	JT	EET ALB	05/10/24 12:53
Total/NA	Analysis	300.0		20	4805	JT	EET ALB	05/11/24 11:45

Lah Sample ID: 885-4194-3 Client Sample ID: BH22-11 2'

Date Collected: 05/06/24 13:55

Date Received: 05/09/24 07:45

Lab	Sample	ID.	003-4134-3
			Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			4694	JP	EET ALB	05/09/24 15:25
Total/NA	Analysis	8015D		1	4841	JP	EET ALB	05/11/24 04:24
Total/NA	Prep	5030C			4694	JP	EET ALB	05/09/24 15:25
Total/NA	Analysis	8021B		1	4843	JP	EET ALB	05/11/24 04:24
Total/NA	Prep	SHAKE			4729	JU	EET ALB	05/10/24 08:59
Total/NA	Analysis	8015D		1	4816	JU	EET ALB	05/10/24 13:18
Total/NA	Prep	300_Prep			4756	JT	EET ALB	05/10/24 12:53
Total/NA	Analysis	300.0		20	4805	JT	EET ALB	05/11/24 12:30

Client Sample ID: BH22-11 4' Lab Sample ID: 885-4194-4

Date Collected: 05/06/24 14:00 Date Received: 05/09/24 07:45

_	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			4694	JP	EET ALB	05/09/24 15:25
Total/NA	Analysis	8015D		1	4841	JP	EET ALB	05/11/24 04:47

Eurofins Albuquerque

5/24/2024

Matrix: Solid

Client Sample ID: BH22-11 4'

Date Collected: 05/06/24 14:00 Date Received: 05/09/24 07:45

Client: Vertex

Lab Sample ID: 885-4194-4

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			4694	JP	EET ALB	05/09/24 15:25
Total/NA	Analysis	8021B		1	4843	JP	EET ALB	05/11/24 04:47
Total/NA	Prep	SHAKE			4729	JU	EET ALB	05/10/24 08:59
Total/NA	Analysis	8015D		1	4816	JU	EET ALB	05/10/24 13:29
Total/NA	Prep	300_Prep			4756	JT	EET ALB	05/10/24 12:53
Total/NA	Analysis	300.0		20	4805	JT	EET ALB	05/11/24 13:15

Client Sample ID: BH24-13 0'

Date Collected: 05/06/24 11:50 Date Received: 05/09/24 07:45 Lab Sample ID: 885-4194-5

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			4694	JP	EET ALB	05/09/24 15:25
Total/NA	Analysis	8015D		1	4841	JP	EET ALB	05/11/24 05:11
Total/NA	Prep	5030C			4694	JP	EET ALB	05/09/24 15:25
Total/NA	Analysis	8021B		1	4843	JP	EET ALB	05/11/24 05:11
Total/NA	Prep	SHAKE			4729	JU	EET ALB	05/10/24 08:59
Total/NA	Analysis	8015D		10	4816	JU	EET ALB	05/10/24 13:39
Total/NA	Prep	300_Prep			4756	JT	EET ALB	05/10/24 12:53
Total/NA	Analysis	300.0		20	4805	JT	EET ALB	05/11/24 13:30

Client Sample ID: BH24-13 2'

Date Collected: 05/06/24 12:00

Date Received: 05/09/24 07:45

Lab Sample	ID: 885-4194-6
------------	----------------

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			4694	JP	EET ALB	05/09/24 15:25
Total/NA	Analysis	8015D		1	4841	JP	EET ALB	05/11/24 05:34
Total/NA	Prep	5030C			4694	JP	EET ALB	05/09/24 15:25
Total/NA	Analysis	8021B		1	4843	JP	EET ALB	05/11/24 05:34
Total/NA	Prep	SHAKE			4729	JU	EET ALB	05/10/24 08:59
Total/NA	Analysis	8015D		1	4816	JU	EET ALB	05/10/24 13:50
Total/NA	Prep	300_Prep			4756	JT	EET ALB	05/10/24 12:53
Total/NA	Analysis	300.0		20	4913	SS	EET ALB	05/13/24 17:08

Client Sample ID: BH24-13 4'

Date Collected: 05/06/24 12:05

Date Received: 05/09/24 07:45

Lab Sample ID: 885-4194-7

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			4694	JP	EET ALB	05/09/24 15:25
Total/NA	Analysis	8015D		1	4841	JP	EET ALB	05/11/24 05:57
Total/NA	Prep	5030C			4694	JP	EET ALB	05/09/24 15:25
Total/NA	Analysis	8021B		1	4843	JP	EET ALB	05/11/24 05:57

Eurofins Albuquerque

2

4

6

8

10

11

Job ID: 885-4194-1

Project/Site: Stray Cat 8 5 Federal Com #214H

Client Sample ID: BH24-13 4'

Date Collected: 05/06/24 12:05

Lab Sample ID: 885-4194-7

Matrix: Solid

Matrix: Solid

Date Received: 05/09/24 07:45

Client: Vertex

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	SHAKE			4729	JU	EET ALB	05/10/24 08:59
Total/NA	Analysis	8015D		1	4816	JU	EET ALB	05/10/24 14:01
Total/NA	Prep	300_Prep			4756	JT	EET ALB	05/10/24 12:53
Total/NA	Analysis	300.0		20	4805	JT	EET ALB	05/11/24 14:31

Lab Sample ID: 885-4194-8

Client Sample ID: BH24-14 0' Date Collected: 05/06/24 11:40 **Matrix: Solid**

Date Received: 05/09/24 07:45

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			4694	JP	EET ALB	05/09/24 15:25
Total/NA	Analysis	8015D		1	4841	JP	EET ALB	05/11/24 06:21
Total/NA	Prep	5030C			4694	JP	EET ALB	05/09/24 15:25
Total/NA	Analysis	8021B		1	4843	JP	EET ALB	05/11/24 06:21
Total/NA	Prep	SHAKE			4729	JU	EET ALB	05/10/24 08:59
Total/NA	Analysis	8015D		1	4816	JU	EET ALB	05/10/24 14:12
Total/NA	Prep	300_Prep			4756	JT	EET ALB	05/10/24 12:53
Total/NA	Analysis	300.0		20	4805	JT	EET ALB	05/11/24 14:46

Client Sample ID: BH24-14 2' Lab Sample ID: 885-4194-9

Date Collected: 05/06/24 11:45

Date Received: 05/09/24 07:45

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			4694	JP	EET ALB	05/09/24 15:25
Total/NA	Analysis	8015D		1	4841	JP	EET ALB	05/11/24 06:44
Total/NA	Prep	5030C			4694	JP	EET ALB	05/09/24 15:25
Total/NA	Analysis	8021B		1	4843	JP	EET ALB	05/11/24 06:44
Total/NA	Prep	SHAKE			4729	JU	EET ALB	05/10/24 08:59
Total/NA	Analysis	8015D		1	4848	JU	EET ALB	05/13/24 11:14
Total/NA	Prep	300_Prep			4756	JT	EET ALB	05/10/24 12:53
Total/NA	Analysis	300.0		20	4805	JT	EET ALB	05/11/24 15:01

Client Sample ID: BH24-15 0'

Date Received: 05/09/24 07:45

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			4694	JP	EET ALB	05/09/24 15:25
Total/NA	Analysis	8015D		1	4841	JP	EET ALB	05/11/24 07:08
Total/NA	Prep	5030C			4694	JP	EET ALB	05/09/24 15:25
Total/NA	Analysis	8021B		1	4843	JP	EET ALB	05/11/24 07:08
Total/NA	Prep	SHAKE			4729	JU	EET ALB	05/10/24 08:59
Total/NA	Analysis	8015D		1	4848	JU	EET ALB	05/13/24 11:38

Eurofins Albuquerque

Lab Sample ID: 885-4194-10 Date Collected: 05/06/24 10:45 **Matrix: Solid** Analysis

Analysis

Released to Imaging: 6/28/2024 10:19:19 AM

300.0

300.0

Client Sample ID: BH24-15 0'

Date Collected: 05/06/24 10:45 Date Received: 05/09/24 07:45

Client: Vertex

Total/NA

Total/NA

Lab Sample ID: 885-4194-10

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	300_Prep			4756	JT	EET ALB	05/10/24 12:53
Total/NA	Analysis	300.0		20	4805	JT	EET ALB	05/11/24 15:16

Client Sample ID: BH24-15 2' Lab Sample ID: 885-4194-11

Matrix: Solid

Date Collected: 05/06/24 10:50 Date Received: 05/09/24 07:45

Batch Dilution Prepared Batch Batch **Prep Type** Туре Method Run Factor Number Analyst or Analyzed Lab Total/NA 5030C JΡ EET ALB 05/09/24 15:25 Prep 4694 Total/NA 8015D 05/11/24 07:31 Analysis 1 4841 JP **EET ALB** Total/NA 5030C 05/09/24 15:25 Prep 4694 JP. **EET ALB** 8021B Total/NA JP **EET ALB** 05/11/24 07:31 Analysis 1 4843 Total/NA Prep SHAKE **EET ALB** 05/10/24 08:59 4729 Total/NA 8015D **EET ALB** 05/10/24 14:44 Analysis 1 4816 JU 05/10/24 12:53 Total/NA Prep 300 Prep 4756 **EET ALB**

Client Sample ID: BH24-16 2' Lab Sample ID: 885-4194-12

20

Date Collected: 05/06/24 11:05 **Matrix: Solid** Date Received: 05/09/24 07:45

4805 JT

4805 JT

FFT ALB

EET ALB

05/11/24 15:31

05/11/24 15:47

Batch Dilution Batch Batch Prepared Prep Type Туре Method Run Factor Number Analyst Lab or Analyzed Total/NA 5030C JP EET ALB 05/09/24 15:25 Prep 4694 Total/NA 8015D 05/11/24 07:55 Analysis JP **EET ALB** 1 4841 Total/NA 5030C JΡ **EET ALB** 05/09/24 15:25 Prep 4694 Total/NA 8021B .JP FFT ALB 05/11/24 07:55 Analysis 1 4843 SHAKE **EET ALB** Total/NA Prep 4729 05/10/24 08:59 8015D **EET ALB** Total/NA Analysis 1 4816 JU 05/10/24 14:55 Total/NA 05/10/24 12:53 Prep 300 Prep 4756 JT **EET ALB**

Client Sample ID: BH22-16 4' Lab Sample ID: 885-4194-13

20

Date Collected: 05/06/24 11:10 Matrix: Solid Date Received: 05/09/24 07:45

Batch Batch Dilution Batch Prepared **Prep Type** Type Method Run Factor Number Analyst Lab or Analyzed Total/NA 5030C JP **EET ALB** 05/10/24 12:26 Prep 4749 Total/NA 8015D 05/13/24 20:48 Analysis 1 4951 RA **FFT ALB** Total/NA 5030C JΡ **EET ALB** 05/10/24 12:26 Prep 4749 8021B Total/NA RA FFT ALB 05/13/24 20:48 Analysis 4952 1 Total/NA SHAKE EET ALB 05/13/24 09:08 Prep 4818 Total/NA 8015D PΠ **EET ALB** 05/13/24 11:36 Analysis 1 4900 EET ALB 05/11/24 12:20 Total/NA Prep 300 Prep 4798 MA Total/NA 300.0 20 4805 JT **EET ALB** 05/11/24 23:52 Analysis

Lab Sample ID: 885-4194-14

Matrix: Solid

Date Collected: 05/06/24 11:30 Date Received: 05/09/24 07:45

Client: Vertex

_	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			4749	JP	EET ALB	05/10/24 12:26
Total/NA	Analysis	8015D		1	4951	RA	EET ALB	05/13/24 21:54
Total/NA	Prep	5030C			4749	JP	EET ALB	05/10/24 12:26
Total/NA	Analysis	8021B		1	4952	RA	EET ALB	05/13/24 21:54
Total/NA	Prep	SHAKE			4818	PD	EET ALB	05/13/24 09:08
Total/NA	Analysis	8015D		1	4900	PD	EET ALB	05/13/24 11:47
Total/NA	Prep	300_Prep			4798	MA	EET ALB	05/11/24 12:20
Total/NA	Analysis	300.0		20	4805	JT	EET ALB	05/12/24 00:37

Client Sample ID: BH22-17 4'

Lab Sample ID: 885-4194-15

Date Collected: 05/06/24 11:35 Date Received: 05/09/24 07:45

Matrix: Solid

Batch Dilution Batch Batch Prepared or Analyzed **Prep Type** Type Method Run Factor Number Analyst Lab Total/NA 5030C EET ALB 05/10/24 12:26 Prep 4749 JΡ Total/NA 8015D 05/13/24 22:15 Analysis 1 4951 RA **EET ALB** Total/NA 5030C 05/10/24 12:26 Prep 4749 JΡ **EET ALB** Total/NA Analysis 8021B 1 4952 RA **EET ALB** 05/13/24 22:15 Total/NA SHAKE PD **EET ALB** 05/13/24 09:08 Prep 4818 4900 PD Total/NA Analysis 8015D 1 **EET ALB** 05/13/24 11:58 EET ALB Total/NA Prep 300_Prep 4798 MA 05/11/24 12:20 Total/NA Analysis 300.0 20 4805 JT **EET ALB** 05/12/24 00:52

Client Sample ID: BH22-18 0'

Lab Sample ID: 885-4194-16

Date Collected: 05/06/24 12:15

Matrix: Solid

Date Received: 05/09/24 07:45

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			4749	JP	EET ALB	05/10/24 12:26
Total/NA	Analysis	8015D		1	4951	RA	EET ALB	05/13/24 22:59
Total/NA	Prep	5030C			4749	JP	EET ALB	05/10/24 12:26
Total/NA	Analysis	8021B		1	4952	RA	EET ALB	05/13/24 22:59
Total/NA	Prep	SHAKE			4818	PD	EET ALB	05/13/24 09:08
Total/NA	Analysis	8015D		1	4900	PD	EET ALB	05/13/24 12:09
Total/NA	Prep	300_Prep			4798	MA	EET ALB	05/11/24 12:20
Total/NA	Analysis	300.0		20	4805	JT	EET ALB	05/12/24 01:07

Client Sample ID: BH24-18 2'

Lab Sample ID: 885-4194-17

Matrix: Solid

Date Collected: 05/06/24 12:20 Date Received: 05/09/24 07:45

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			4749	JP	EET ALB	05/10/24 12:26
Total/NA	Analysis	8015D		1	4951	RA	EET ALB	05/13/24 23:20

1

20

4900 PD

4798 MA

4805 JT

Job ID: 885-4194-1

EET ALB

Project/Site: Stray Cat 8 5 Federal Com #214H

Analysis

Analysis

Prep

8015D

300.0

300 Prep

Client Sample ID: BH24-18 2'

Client: Vertex

Total/NA

Total/NA

Total/NA

Date Collected: 05/06/24 12:20 Date Received: 05/09/24 07:45 Lab Sample ID: 885-4194-17

Matrix: Solid

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor **Number Analyst** Lab or Analyzed 5030C 05/10/24 12:26 Total/NA Prep 4749 JP EET ALB Total/NA 8021B 05/13/24 23:20 Analysis 1 4952 RA **EET ALB** Total/NA Prep SHAKE 4818 PD **EET ALB** 05/13/24 09:08

> EET ALB 05/11/24 12:20 EET ALB 05/12/24 01:23

05/13/24 12:19

Client Sample ID: BH22-19 0'

Date Collected: 05/06/24 10:25 Date Received: 05/09/24 07:45 Lab Sample ID: 885-4194-18

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			4749	JP	EET ALB	05/10/24 12:26
Total/NA	Analysis	8015D		1	4951	RA	EET ALB	05/13/24 23:42
Total/NA	Prep	5030C			4749	JP	EET ALB	05/10/24 12:26
Total/NA	Analysis	8021B		1	4952	RA	EET ALB	05/13/24 23:42
Total/NA	Prep	SHAKE			4818	PD	EET ALB	05/13/24 09:08
Total/NA	Analysis	8015D		1	4900	PD	EET ALB	05/13/24 12:30
Total/NA	Prep	300_Prep			4798	MA	EET ALB	05/11/24 12:20
Total/NA	Analysis	300.0		20	4805	JT	EET ALB	05/12/24 01:38

Client Sample ID: BH24-19 2'

Date Collected: 05/06/24 10:30 Date Received: 05/09/24 07:45 Lab Sample ID: 885-4194-19

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			4749	JP	EET ALB	05/10/24 12:26
Total/NA	Analysis	8015D		1	4951	RA	EET ALB	05/14/24 00:04
Total/NA	Prep	5030C			4749	JP	EET ALB	05/10/24 12:26
Total/NA	Analysis	8021B		1	4952	RA	EET ALB	05/14/24 00:04
Total/NA	Prep	SHAKE			4818	PD	EET ALB	05/13/24 09:08
Total/NA	Analysis	8015D		1	4900	PD	EET ALB	05/13/24 12:41
Total/NA	Prep	300_Prep			4798	MA	EET ALB	05/11/24 12:20
Total/NA	Analysis	300.0		20	4805	JT	EET ALB	05/12/24 06:26

Client Sample ID: BH24-20 0'

Date Collected: 05/06/24 12:30

Date Received: 05/09/24 07:45

Lab Sample ID: 885-4194-20

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			4749	JP	EET ALB	05/10/24 12:26
Total/NA	Analysis	8015D		1	4951	RA	EET ALB	05/14/24 00:25
Total/NA	Prep	5030C			4749	JP	EET ALB	05/10/24 12:26
Total/NA	Analysis	8021B		1	4952	RA	EET ALB	05/14/24 00:25

Eurofins Albuquerque

3

4

5

8

10

1

Job ID: 885-4194-1

Project/Site: Stray Cat 8 5 Federal Com #214H

Client Sample ID: BH24-20 0'

Date Collected: 05/06/24 12:30 Date Received: 05/09/24 07:45

Client: Vertex

Lab Sample ID: 885-4194-20

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	SHAKE			4818	PD	EET ALB	05/13/24 09:08
Total/NA	Analysis	8015D		1	4900	PD	EET ALB	05/13/24 12:52
Total/NA	Prep	300_Prep			4798	MA	EET ALB	05/11/24 12:20
Total/NA	Analysis	300.0		20	4805	JT	EET ALB	05/12/24 02:23

Lab Sample ID: 885-4194-21

Client Sample ID: BH24-20 2' Date Collected: 05/06/24 12:35 **Matrix: Solid**

Date Received: 05/09/24 07:45

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			4749	JP	EET ALB	05/10/24 12:26
Total/NA	Analysis	8015D		1	4951	RA	EET ALB	05/14/24 00:47
Total/NA	Prep	5030C			4749	JP	EET ALB	05/10/24 12:26
Total/NA	Analysis	8021B		1	4952	RA	EET ALB	05/14/24 00:47
Total/NA	Prep	SHAKE			4818	PD	EET ALB	05/13/24 09:08
Total/NA	Analysis	8015D		1	4900	PD	EET ALB	05/13/24 13:02
Total/NA	Prep	300_Prep			4798	MA	EET ALB	05/11/24 12:20
Total/NA	Analysis	300.0		20	4805	JT	EET ALB	05/12/24 02:38

Client Sample ID: BH24-21 0' Lab Sample ID: 885-4194-22

Date Collected: 05/06/24 12:50 **Matrix: Solid**

Date Received: 05/09/24 07:45

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			4749	JP	EET ALB	05/10/24 12:26
Total/NA	Analysis	8015D		1	4951	RA	EET ALB	05/14/24 01:09
Total/NA	Prep	5030C			4749	JP	EET ALB	05/10/24 12:26
Total/NA	Analysis	8021B		1	4952	RA	EET ALB	05/14/24 01:09
Total/NA	Prep	SHAKE			4818	PD	EET ALB	05/13/24 09:08
Total/NA	Analysis	8015D		1	4900	PD	EET ALB	05/13/24 13:13
Total/NA	Prep	300_Prep			4798	MA	EET ALB	05/11/24 12:20
Total/NA	Analysis	300.0		20	4805	JT	EET ALB	05/12/24 02:53

Lab Sample ID: 885-4194-23

Date Received: 05/09/24 07:45

Released to Imaging: 6/28/2024 10:19:19 AM

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			4749	JP	EET ALB	05/10/24 12:26
Total/NA	Analysis	8015D		1	4951	RA	EET ALB	05/14/24 01:31
Total/NA	Prep	5030C			4749	JP	EET ALB	05/10/24 12:26
Total/NA	Analysis	8021B		1	4952	RA	EET ALB	05/14/24 01:31
Total/NA	Prep	SHAKE			4818	PD	EET ALB	05/13/24 09:08
Total/NA	Analysis	8015D		1	4900	PD	EET ALB	05/13/24 13:24

Eurofins Albuquerque

Client Sample ID: BH24-21 2' Date Collected: 05/06/24 12:55 **Matrix: Solid** Client Sample ID: BH24-21 2'

Date Collected: 05/06/24 12:55 Date Received: 05/09/24 07:45 Lab Sample ID: 885-4194-23

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	300_Prep			4798	MA	EET ALB	05/11/24 12:20
Total/NA	Analysis	300.0		20	4805	JT	EET ALB	05/12/24 03:09

Client Sample ID: BH24-22 0' Lab Sample ID: 885-4194-24 Date Collected: 05/06/24 13:25

Matrix: Solid

Date Received: 05/09/24 07:45

Batch Batch Dilution Batch Prepared **Prep Type** Туре Method Run Factor Number Analyst Lab or Analyzed Total/NA Prep 5030C 4749 JΡ **EET ALB** 05/10/24 12:26 Total/NA 8015D Analysis 4951 RA 05/14/24 01:53 1 **EET ALB** Total/NA Prep 5030C 4749 JΡ **EET ALB** 05/10/24 12:26 Total/NA 8021B **EET ALB** 05/14/24 01:53 Analysis 4952 RA 1 Total/NA Prep SHAKE 4818 PD **EET ALB** 05/13/24 09:08

Client Sample ID: BH24-22 2' Lab Sample ID: 885-4194-25

1

20

EET ALB

EET ALB

EET ALB

4900 PD

4798 MA 4805 JT

05/13/24 13:35

05/11/24 12:20

05/12/24 03:24

Matrix: Solid

Date Collected: 05/06/24 13:35 Date Received: 05/09/24 07:45

Total/NA

Total/NA

Total/NA

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			4749	JP	EET ALB	05/10/24 12:26
Total/NA	Analysis	8015D		1	4951	RA	EET ALB	05/14/24 02:14
Total/NA	Prep	5030C			4749	JP	EET ALB	05/10/24 12:26
Total/NA	Analysis	8021B		1	4952	RA	EET ALB	05/14/24 02:14
Total/NA	Prep	SHAKE			4818	PD	EET ALB	05/13/24 09:08
Total/NA	Analysis	8015D		1	4900	PD	EET ALB	05/13/24 13:46
Total/NA	Prep	300_Prep			4798	MA	EET ALB	05/11/24 12:20
Total/NA	Analysis	300.0		20	4805	JT	EET ALB	05/12/24 03:39

Client Sample ID: BH24-22 4'

8015D

300.0

300 Prep

Analysis

Analysis

Prep

Lab Sample ID: 885-4194-26 Date Collected: 05/06/24 13:40

Date Received: 05/09/24 07:45

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			4838	AT	EET ALB	05/13/24 10:53
Total/NA	Analysis	8015D		1	5117	JP	EET ALB	05/15/24 22:30
Total/NA	Prep	5030C			4838	AT	EET ALB	05/13/24 10:53
Total/NA	Analysis	8021B		1	5119	JP	EET ALB	05/15/24 22:30
Total/NA	Prep	SHAKE			4855	JU	EET ALB	05/13/24 13:27
Total/NA	Analysis	8015D		1	4850	JU	EET ALB	05/13/24 18:12
Total/NA	Prep	300_Prep			4873	JT	EET ALB	05/13/24 14:48
Total/NA	Analysis	300.0		20	4913	SS	EET ALB	05/13/24 23:19

Eurofins Albuquerque

Matrix: Solid

Lab Sample ID: 885-4194-27

Matrix: Solid

Date Collected: 05/06/24 13:05 Date Received: 05/09/24 07:45

Client Sample ID: BH24-23 0'

Client: Vertex

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			4838	AT	EET ALB	05/13/24 10:53
Total/NA	Analysis	8015D		1	5117	JP	EET ALB	05/15/24 22:53
Total/NA	Prep	5030C			4838	AT	EET ALB	05/13/24 10:53
Total/NA	Analysis	8021B		1	5119	JP	EET ALB	05/15/24 22:53
Total/NA	Prep	SHAKE			4855	JU	EET ALB	05/13/24 13:27
Total/NA	Analysis	8015D		10	5004	JU	EET ALB	05/14/24 10:29
Total/NA	Prep	300_Prep			4873	JT	EET ALB	05/13/24 14:48
Total/NA	Analysis	300.0		50	5082	RC	EET ALB	05/15/24 20:17

Client Sample ID: BH24-23 2' Lab Sample ID: 885-4194-28

Date Collected: 05/06/24 13:10 Matrix: Solid

Date Received: 05/09/24 07:45

	Batch	Batch		Dilution	Batch			Prepared	
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed	
Total/NA	Prep	5030C			4838	AT	EET ALB	05/13/24 10:53	
Total/NA	Analysis	8015D		1	5117	JP	EET ALB	05/15/24 23:17	
Total/NA	Prep	5030C			4838	AT	EET ALB	05/13/24 10:53	
Total/NA	Analysis	8021B		1	5119	JP	EET ALB	05/15/24 23:17	
Total/NA	Prep	SHAKE			4855	JU	EET ALB	05/13/24 13:27	
Total/NA	Analysis	8015D		1	5004	JU	EET ALB	05/14/24 14:53	
Total/NA	Prep	300_Prep			4873	JT	EET ALB	05/13/24 14:48	
Total/NA	Analysis	300.0		20	4913	SS	EET ALB	05/13/24 23:43	

Client Sample ID: BH24-23 4'

Lab Sample ID: 885-4194-29

Date Collected: 05/06/24 13:15

Date Received: 05/09/24 07:45

_	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			4838	AT	EET ALB	05/13/24 10:53
Total/NA	Analysis	8015D		1	5117	JP	EET ALB	05/15/24 23:40
Total/NA	Prep	5030C			4838	AT	EET ALB	05/13/24 10:53
Total/NA	Analysis	8021B		1	5119	JP	EET ALB	05/15/24 23:40
Total/NA	Prep	SHAKE			4855	JU	EET ALB	05/13/24 13:27
Total/NA	Analysis	8015D		1	5004	JU	EET ALB	05/14/24 14:29
Total/NA	Prep	300_Prep			4873	JT	EET ALB	05/13/24 14:48
Total/NA	Analysis	300.0		20	4913	SS	EET ALB	05/13/24 23:56

Laboratory References:

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

Eurofins Albuquerque

Matrix: Solid

3

4

6

8

9

Accreditation/Certification Summary

Client: Vertex Job ID: 885-4194-1

Project/Site: Stray Cat 8 5 Federal Com #214H

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
New Mexico	State		NM9425, NM0901	02-26-25
• ,	are included in this report, but not offer certification.	ut the laboratory is not certif	ied by the governing authority. This lis	t may include analytes
Analysis Method	Prep Method	Matrix	Analyte	
300.0	300_Prep	Solid	Chloride	
8015D	5030C	Solid	Gasoline Range Organics	[C6 - C10]
8015D	SHAKE	Solid	Diesel Range Organics [C	10-C28]
8015D	SHAKE	Solid	Motor Oil Range Organics	[C28-C40]
8021B	5030C	Solid	Benzene	
8021B	5030C	Solid	Ethylbenzene	
8021B	5030C	Solid	Toluene	
8021B	5030C	Solid	Xylenes, Total	
)regon	NELA	P	NM100001	02-26-25

Eurofins Albuquerque

2

5

7

10

П
Page
Ω
Œ
8
으
63

Q	Π
14/	.)
	3
Ņ	3
1	_

C	hain	of-Cu	stody Record	Turn-Around	Time:					ш	AI			W.	TD		IME	:NT	ΑI	Vec
Client:		Vertex		∫ ⊠ Standard	X Rush	_5-day rush											OR/			es ved
	(direct h	aill to Deve	on, work order 20973053)	Project Name	e:											al.con		B		Ų
Mailing	Address		on, work order 2007 5000)	Stray Cat 8 A	5 Federal Con	o #214∐		100	11 Ha								87109	6		
				Project #:	rederal Con	11 #2 1411			el. 505							345-4			194 COC	
Phone :	#.			22E-00189				16	1. 500	0-34	3-39		-	sis I	_		107			
email o				Project Mana	ener:			<u></u>		T		7	-							
-	Package:			Kent Stalling			(8021)	/ MRO)	3's		<u>S</u>	- 1	, SO ₄			Sen				0.0
☐ Stan	•		☐ Level 4 (Full Validation)	kstallings@v			s (8	0/1	PCB's		SIN		PO₄,			I A P				7.3
		□ Az Co	mpliance	Sampler:	L. Pullman, J.	Rewis	MB	DR		=	8270SIMS		NO ₂ ,			(Present/Absent)				1 1
□ NEL		□ Other	·	On Ice:		□ No	7 /	30/)8/s	504	5				(A)	(Pre				
	(Type)			# of Coolers:		MOITY	MTBE	TPH:8015D(GRO	8081 Pesticides/8082	EDB (Method 504.1)	PAHs by 8310 or	RCRA 8 Metals	NO3,		(Semi-VOA)					
				Cooler Temp	(including CF):	6-0=1.6	Σ.	115[esti	Met	by 8	8	P.	(VOA)	Sem	Coliform				
				Container	Preservative	HEAL No.	втех	H:8(81 F	B	HS	Ä.	щ	8260 (8270 (
Date	Time	Matrix	Sample Name	Type and #	Туре		ВТ	F	8		A	낊	_디	82	82	Total	\perp	\sqcup		Щ
05/06/24	14:10	Soil	BH22-10 2'	1, 4oz jar		1	Х	Х					х							
05/06/24	14:15	Soil	BH22-10 4'	1, 4oz jar		2	х	х					х							
05/06/24	13:55	Soil	BH22-11 2'	1, 4oz jar		3	х	х					х							
05/06/24	14:00	Soil	BH22-11 4'	1, 4oz jar		Ч	Х	х					х							
05/06/24	11:50	Soil	BH24-13 0'	1, 4oz jar		5	х	х					х							
05/06/24	12:00	Soil	BH24-13 2'	1, 4oz jar		6	х	х					х							
05/06/24	12:05	Soil	BH24-13 4'	1, 4oz jar		7	х	Х					х							
05/06/24	11:40	Soil	BH24-14 0'	1, 4oz jar		8	х	х					х							
05/06/24	11:45	Soil	BH24-14 2'	1, 4oz jar		9	X	х					х							
05/06/24	10:45	Soil	BH24-15 0'	1, 4oz jar		10	х	х					х					\sqcup		
05/06/24	10:50	Soil	BH24-15 2'	1, 4oz jar		11	х	х					х					\sqcup		
05/06/24		Soil	BH24-16 2'	1, 4oz jar		12	Х	Х					Х							Ц
Date:	Time:	Relinquish	d by:	Received by:	Via:	Date Time		nark		Davi		ua -1-		do- 1	002	20 <i>E</i> 2	Dala	Nosel:	sII	
2-8-74	0.00	Dalwi	el MV	amugu	Jin	SB 24 0700											Dale \tex.ca,		111	
Date:	Time:	Relinquish	ed 😂 ý: 💆	Received by:	Via: '	Date Time			ty@v	_					_	_	,			I'u
5/8/24	1900	Cicu	mus /		COURSE	519/24 7:45														7
	If necessary	, samples sub	mitted to Hall Environmental may be sub-	contracted to other a	accredited laboratorie	es. This serves as notice of this	possi	bility.	Any sub	-conti	racted	data w	vill be	clearly	y notat	ed on th	e analytic	al report.		

10

ဖ

00

(

6

71

. 6

N

1/3

5/24/2024

	hain	-of-Cι	ustody Record	Turn-Around	Time:					F	141		E	V	TE	20	NM	IEN	TA		Rec
Client:		Vertex		☐ Standard	X Rush	_5-day rush				_					_				OR		Received by OCD:
	(direct l	oill to Devi	on, work order 20973053)	Project Name] •									tal.cc					l by
Mailing	Address		on, work order 2007 0000)	Stray Cat 8	5 Federal Cor	m #214⊔		40	01 LI								M 871	00			20
				Project #:	5 rederal Col	11 #2 14	1		el. 50								4107	09			0:0
Phone	#:			22E-00189				16	31. 50	J-3 ²	10-38					uest					1 20/2
email o				Project Mana	ager:		_	<u> </u>					SO4		T			T			-024
	Package:			Kent Stalling			(8021)	/ MRO)	3,8		4S					ser					3.3
□ Stan	ndard		☐ Level 4 (Full Validation)	kstallings@v			S	0/1	PCB's		SIN		PO ₄ ,			ITA					5:34:32
Accredi	itation:	□ Az Co	ompliance	Sampler:	L. Pullman, J	. Rewis	TMB	DR	082	=	8270SIMS		NO ₂ ,			eser					PN
□ NEL		□ Other			Yes	□ No	-	RO,	8/8	504	ō	2			OA)	(Pr					
	(Type)	T	<u> </u>	# of Coolers:		morty	MTBE	TPH:8015D(GRO	8081 Pesticides/8082	EDB (Method 504.1)	PAHs by 8310	8 Metals	NO ₃ .	8	(Semi-VOA)	Coliform (Present/Absent)					
				Cooler Temp	O(including CF).	6-0=1.6	1 ~	015	est	Met	by	8	B,	(VOA)	Sen	Solif					
_			Cample Name	Container	Preservative	HEAL No.	BTEX	8:H	81 F	98	HS.	RCRA	щ	8260 (8270 (otal (
Date	Time	Matrix	Sample Name	Type and #	Туре		8	Ë	8	Ш	<u>a</u>	~	ਹੰ	82	82	٢	_	+	+	_	_
05/06/24	11:10	Soil	BH22-16 4'	1, 4oz jar		13	Х	Х			\Box		Х								
05/06/24	11:30	Soil	BH22-17 2'	1, 4oz jar		14	Х	Х					х								
05/06/24	11:35	Soil	BH22-17 4'	1, 4oz jar		15	X	х					х								
05/06/24	12:15	Soil	BH22-18 0'	1, 4oz jar		10	Х	Х					х								
05/06/24	12:20	Soil	BH24-18 2'	1, 4oz jar		17	Х	Х					х								
05/06/24	10:25	Soil	BH22-19 0'	1, 4oz jar		18	х	Х					х								
05/06/24	10:30	Soil	BH24-19 2'	1, 4oz jar		19	х	х					х								
05/06/24	12:30	Soil	BH24-20 0'	1, 4oz jar		20	х	х					х								
05/06/24	12:35	Soil	BH24-20 2'	1, 4oz jar		21	Х	Х					Х								
05/06/24	12:50	Soil	BH24-21 0'	1, 4oz jar		22	х	Х					х								
05/06/24	12:55	Soil	BH24-21 2'	1, 4oz jar		23	х	Х					х								
05/06/24	13:25	Soil	BH24-22 0'	1, 4oz jar		24	Х	Х					х								
Date:	Time:	Relinquish	ed by	Received by:	Via:	Date Time		nark							100			101			
2-8-24		Jaker !	ULOM	almy	12 2	5/8/24 0700											rtex.c	e Woo	odali		
Date:	Time:	Relinquish	ed by:	Received by	Via:	Date Time			ty@	_						_		,			Pa
10/29	1900	an	MM	1/h/h	-104101	5/9/24 7:45															Page 2
	If necessary	samples sub	omitted to Hall Environmental may be subp	ontracted to other a	accredited laboratorie	es. This serves as notice of this	s possi	bility.	Any su	b-cont	racted	data	will be	clear	y nota	ted on	the ana	lytical re	port.		23

		hain	-of-Cı	ustody Record	Turn-Around	Time:					-	44		F	NV	TE	20	NI	ME	NT	ΔI	
	Client:		Vertex		□ Standard		n_5-day rush													TO		ACCUSION OF COMPONION SOUTH SOUTH SALES
		(direct l	oill to Dev	on, work order 20973053)	Project Nam	e:						www	v.ha	llenv	/ironi	men	tal.c	om				6,0
	Mailing	Address			Strav Cat 8	5 Federal Cor	n #214H		49	01 H	awk	ins N	۱E -	Alb	ouau	erau	e. N	IM 87	7109			
				· · · · · · · · · · · · · · · · · · ·	Project #:					el. 50								-410				•
•	Phone a	#:			22E-00189												uest					
	email o	r Fax#:			Project Mana	ager:		=	6					SO4			er (f)					
	QA/QC I	Package:			Kent Stalling	s		TMB's (8021)	/ MRO)	PCB's		MS					pse					
	□ Stan	dard		□ Level 4 (Full Validation)	kstallings@v	ertex.ca		3's (DRO/			8270SIMS		, PO ₄ ,			nt/A					
	Accredi			ompliance	Sampler:	L. Pullman, J		Ĭ.	-	3082	£.	827		NO ₂ ,			rese					
	□ NEL		□ Othe	r	On Ice:	Yes	□ No	E	SRO	les/8	207	0 or	sls			10A	n (P					
١	□ EDD	(Type)			# of Coolers: Cooler Temp		Morty	MTBE	5)0(Pesticides/8082	thod	831	Meta	Br, NO ₃ ,	(A)	ni-√	Coliform (Present/Absent)					
	Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type		BTEX / N	TPH:8015D(GRO	8081 Pes	EDB (Method 504.1)	PAHs by 8310 or	RCRA 8 Metals	CI, F, Br,	8260 (VOA)	8270 (Semi-VOA)	Total Col					
١٥	05/06/24	13:35	Soil	BH24-22 2'	1, 4oz jar		25	X	Х					Х		-				\top		П
פוני	05/06/24	101116	Soil	BH24-22 4'	1, 402 jar		26	X	Х					X						+	+	H
2	05/06/24		Soil	BH24-23 0'	1, 4oz jar		27	Х	Х					Х							\top	\Box
33	05/06/24	13:10	Soil	BH24-23 2'	1, 4oz jar		28	х	х					Х								П
	05/06/24		Soil	BH24-23 4'	1, 4oz jar		29	x	х					Х								
																					\perp	
																				_	_	Ш
-			-					-										$\vdash \vdash$	\vdash	+	+	\vdash
-										_	\dashv	-							\vdash	+	+	H
ł							1											\vdash	\vdash	+	+	H
																					+	\forall
	Date: 5-8-3 4		Relinquish Sakv		Received by:	V. U	Date Time 5 8 14 0700	Dire		ill to								3. Da		oodal	11	
5/24/2024	3/8/24	Time:	Relinquish	MUMAA	Received by:	Via: (OUNDY	Date Time 5/9/24 7-45	SM	cCar	ty@	vert	ex.c	a fo	r Fir	nal R	epo	rt					1.050
3034	1	f necessary	, samples sub	omitted to Hall Environmental may be subt	contracted to other a	accredited laboratorie	es. This serves as notice of thi	s possi	ibility.	Any su	b-con	tracted	data	will be	e clear	y nota	ited on	the ar	nalytical	report		3/3

Login Sample Receipt Checklist

Client: Vertex Job Number: 885-4194-1

Login Number: 4194 List Source: Eurofins Albuquerque

List Number: 1

Creator: Casarrubias, Tracy

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>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	
s the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6 mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

j 330

1

A

5

8

16

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Kent Stallings Vertex 3101 Boyd Dr Carlsbad, New Mexico 88220

Generated 5/24/2024 3:28:54 PM

JOB DESCRIPTION

Stray Cat 8 5 Federal Com #214H

JOB NUMBER

885-4189-1

Eurofins Albuquerque 4901 Hawkins NE Albuquerque NM 87109

Eurofins Albuquerque

Job Notes

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

Authorization

Generated 5/24/2024 3:28:54 PM

Authorized for release by Andy Freeman, Business Unit Manager andy.freeman@et.eurofinsus.com (505)345-3975 •

2

3

4

5

7

8

1 0

Client: Vertex Laboratory Job ID: 885-4189-1

Project/Site: Stray Cat 8 5 Federal Com #214H

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
QC Sample Results	10
QC Association Summary	13
Lab Chronicle	15
Certification Summary	17
Chain of Custody	18
Receipt Checklists	19

Page 3 of 19

Definitions/Glossary

Client: Vertex Job ID: 885-4189-1

Project/Site: Stray Cat 8 5 Federal Com #214H

Qualifiers

GC VOA

Qualifier **Qualifier Description**

S1+ Surrogate recovery exceeds control limits, high biased.

Glossary

LOQ

MCL

MDA

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

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) ND

Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level"

Minimum Detectable Activity (Radiochemistry)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

Too Numerous To Count **TNTC**

Eurofins Albuquerque

Case Narrative

Client: Vertex Job ID: 885-4189-1

Project: Stray Cat 8 5 Federal Com #214H

Job ID: 885-4189-1 Eurofins Albuquerque

Job Narrative 885-4189-1

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 5/9/2024 7:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.6°C.

Gasoline Range Organics

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

GC VOA

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

Diesel Range Organics

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

HPLC/IC

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

Eurofins Albuquerque

2

3

4

5

1 N

Client Sample Results

Client: Vertex Job ID: 885-4189-1

Project/Site: Stray Cat 8 5 Federal Com #214H

Client Sample ID: BH22-10 6'

Date Collected: 05/07/24 09:00 Date Received: 05/09/24 07:45 Lab Sample ID: 885-4189-1

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)										
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		05/13/24 10:53	05/15/24 19:22	1		
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)			35 - 166			05/13/24 10:53	05/15/24 19:22			

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/13/24 10:53	05/15/24 19:22	1
Ethylbenzene	ND		0.049	mg/Kg		05/13/24 10:53	05/15/24 19:22	1
Toluene	ND		0.049	mg/Kg		05/13/24 10:53	05/15/24 19:22	1
Xylenes, Total	ND		0.099	mg/Kg		05/13/24 10:53	05/15/24 19:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		48 - 145			05/13/24 10:53	05/15/24 19:22	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.7	mg/Kg		05/13/24 13:27	05/13/24 17:21	1
Motor Oil Range Organics [C28-C40]	ND		44	mg/Kg		05/13/24 13:27	05/13/24 17:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	91		62 - 134			05/13/24 13:27	05/13/24 17:21	1

Method: EPA 300.0 - Anions, ion C	nromatograpny						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	130	60	mg/Kg		05/13/24 14:48	05/13/24 22:29	20

Eurofins Albuquerque

2

3

5

9

Client Sample Results

Client: Vertex Job ID: 885-4189-1

Project/Site: Stray Cat 8 5 Federal Com #214H

Client Sample ID: BH22-11 6'

Date Collected: 05/07/24 09:15 Date Received: 05/09/24 07:45 Lab Sample ID: 885-4189-2

Matrix: Solid

Method: SW846 8015D - Gasoline	Range Organ	ics (GRO) ((GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		05/13/24 10:53	05/15/24 20:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		35 - 166			05/13/24 10:53	05/15/24 20:32	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/13/24 10:53	05/15/24 20:32	1
Ethylbenzene	ND		0.049	mg/Kg		05/13/24 10:53	05/15/24 20:32	1
Toluene	ND		0.049	mg/Kg		05/13/24 10:53	05/15/24 20:32	1
Xylenes, Total	ND		0.098	mg/Kg		05/13/24 10:53	05/15/24 20:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		48 - 145			05/13/24 10:53	05/15/24 20:32	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4	mg/Kg		05/13/24 13:27	05/13/24 17:33	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		05/13/24 13:27	05/13/24 17:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	93	-	62 - 134			05/13/24 13:27	05/13/24 17:33	1

Method: EPA 300.0 - Anions, Ion C	hromatography						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	860	60	mg/Kg		05/13/24 14:48	05/13/24 22:42	20

Eurofins Albuquerque

Released to Imaging: 6/28/2024 10:19:19 AM

3

5

9

10

Client: Vertex Job ID: 885-4189-1

Project/Site: Stray Cat 8 5 Federal Com #214H

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Result Qualifier

Client Sample ID: BH22-11 8'

Date Collected: 05/07/24 10:35 Date Received: 05/09/24 07:45 Lab Sample ID: 885-4189-3

Matrix: Solid

	Mati	ix. Colla
Prepared	Analyzed	Dil Fac

Gasoline Range Organics [C6 - C10]	ND ND	4.9	mg/Kg	05/13/24 10:53	05/15/24 21:43	1
Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90	35 - 166		05/13/24 10:53	05/15/24 21:43	1

RL

Unit

D

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/13/24 10:53	05/15/24 21:43	1
Ethylbenzene	ND		0.049	mg/Kg		05/13/24 10:53	05/15/24 21:43	1
Toluene	ND		0.049	mg/Kg		05/13/24 10:53	05/15/24 21:43	1
Xylenes, Total	ND		0.098	mg/Kg		05/13/24 10:53	05/15/24 21:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		48 - 145			05/13/24 10:53	05/15/24 21:43	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.1	mg/Kg		05/13/24 13:27	05/13/24 17:46	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		05/13/24 13:27	05/13/24 17:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	90		62 - 134			05/13/24 13:27	05/13/24 17:46	1

Method: EPA 300.0 - Anions, Ion C	hromatography						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND ND	60	mg/Kg		05/13/24 14:48	05/13/24 22:54	20

Client Sample Results

Client: Vertex Job ID: 885-4189-1

Project/Site: Stray Cat 8 5 Federal Com #214H

Client Sample ID: BH24-22 6'

Date Received: 05/09/24 07:45

Date Collected: 05/07/24 09:30

Lab Sample ID: 885-4189-4

Matrix: Solid

Method: SW846 8015D - Gasoline	Range Organ	ics (GRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		05/13/24 10:53	05/15/24 22:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		35 - 166			05/13/24 10:53	05/15/24 22:06	1

Analyte	Result C	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/13/24 10:53	05/15/24 22:06	1
Ethylbenzene	ND		0.049	mg/Kg		05/13/24 10:53	05/15/24 22:06	1
Toluene	ND		0.049	mg/Kg		05/13/24 10:53	05/15/24 22:06	1
Xylenes, Total	ND		0.098	mg/Kg		05/13/24 10:53	05/15/24 22:06	1
Surrogate	%Recovery (Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		48 - 145			05/13/24 10:53	05/15/24 22:06	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3	mg/Kg		05/13/24 13:27	05/13/24 17:59	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		05/13/24 13:27	05/13/24 17:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	91		62 - 134			05/13/24 13:27	05/13/24 17:59	1

Method: EPA 300.0 - Anions, Ion C	hromatography						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	68	60	mg/Kg		05/13/24 14:48	05/13/24 23:06	20

Eurofins Albuquerque

2

3

Į,

7

8

10

QC Sample Results

Client: Vertex Job ID: 885-4189-1

Project/Site: Stray Cat 8 5 Federal Com #214H

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

Lab Sample ID: MB 885-4838/1-A **Matrix: Solid**

Analysis Batch: 5117

Gasoline Range Organics [C6 - C10]

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 4838

MB MB Result Qualifier RLUnit D Prepared Analyzed Dil Fac ND 5.0 mg/Kg 05/13/24 10:53 05/15/24 18:58

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 90 35 - 166 05/13/24 10:53 05/15/24 18:58

Lab Sample ID: LCS 885-4838/2-A Client Sample ID: Lab Control Sample Prep Type: Total/NA

Matrix: Solid

Analyte

Analysis Batch: 5117

Prep Batch: 4838 Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits 25.0 24.1 96 Gasoline Range Organics [C6 mg/Kg 70 - 130

C10]

LCS LCS

%Recovery Qualifier Limits Surrogate 194 S1+ 35 - 166 4-Bromofluorobenzene (Surr)

Lab Sample ID: 885-4189-1 MS Client Sample ID: BH22-10 6'

Matrix: Solid Prep Type: Total/NA

Analysis Batch: 5117 Prep Batch: 4838

Sample Sample Spike MS MS Result Qualifier Added Result Qualifier Analyte Unit D %Rec Limits 24.2 98 Gasoline Range Organics [C6 -ND 23.8 mg/Kg 70 - 130C10]

MS MS %Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 195 S1+ 35 - 166

Lab Sample ID: 885-4189-1 MSD Client Sample ID: BH22-10 6'

Matrix: Solid

Analysis Batch: 5117

Matrix: Solid

Sample Sample MSD MSD RPD Spike %Rec Result Qualifier Added Qualifier RPD Analyte Result %Rec Limits Unit Gasoline Range Organics [C6 -ND 24.3 23.4 mg/Kg 96 70 - 130

C10] MSD MSD

%Recovery Qualifier Surrogate Limits S1+ 35 - 166 4-Bromofluorobenzene (Surr) 191

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-4838/1-A

Analysis Batch: 5119

Released to Imaging: 6/28/2024 10:19:19 AM

мв мв Analyte Result Qualifier RL Unit Analyzed Dil Fac D Prepared 0.025 Benzene ND mg/Kg 05/13/24 10:53 05/15/24 18:58 Ethylbenzene ND 0.050 mg/Kg 05/13/24 10:53 05/15/24 18:58 ND 0.050 Toluene 05/13/24 10:53 05/15/24 18:58 mg/Kg

Eurofins Albuquerque

Prep Type: Total/NA

Prep Batch: 4838

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 4838

Client: Vertex Job ID: 885-4189-1

Project/Site: Stray Cat 8 5 Federal Com #214H

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

Lab Sample ID: MB 885-4838/1-A **Matrix: Solid**

Analysis Batch: 5119

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 4838

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.10	mg/Kg		05/13/24 10:53	05/15/24 18:58	1

MR MR

MB MB

%Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 91 48 - 145 05/13/24 10:53 05/15/24 18:58

Lab Sample ID: LCS 885-4838/3-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 5119

Prep Type: Total/NA

Prep Batch: 4838

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	1.00	0.951		mg/Kg		95	70 - 130	
Ethylbenzene	1.00	0.902		mg/Kg		90	70 - 130	
m,p-Xylene	2.00	1.83		mg/Kg		91	70 - 130	
o-Xylene	1.00	0.894		mg/Kg		89	70 - 130	
Toluene	1.00	0.893		mg/Kg		89	70 - 130	

LCS LCS

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

Lab Sample ID: 885-4189-2 MS Client Sample ID: BH22-11 6'

Matrix: Solid

Analysis Batch: 5119

Prep Type: Total/NA

Prep Batch: 4838

Analysis Butch. 0110	Sample	Sample	Spike	MS	MS				%Rec	p Baton. 4000
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	ND		0.996	0.955		mg/Kg		96	70 - 130	
Ethylbenzene	ND		0.996	0.912		mg/Kg		92	70 - 130	
m,p-Xylene	ND		1.99	1.85		mg/Kg		93	70 - 130	
o-Xylene	ND		0.996	0.902		mg/Kg		91	70 - 130	
Toluene	ND		0.996	0.901		mg/Kg		90	70 - 130	
	MS	MS								

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

Lab Sample ID: 885-4189-2 MSD Client Sample ID: BH22-11 6'

Matrix: Solid

Analysis Batch: 5119

Prep Type: Total/NA

Prep Batch: 4838

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	ND		0.977	0.911		mg/Kg		93	70 - 130	5	20
Ethylbenzene	ND		0.977	0.878		mg/Kg		90	70 - 130	4	20
m,p-Xylene	ND		1.95	1.78		mg/Kg		91	70 - 130	4	20
o-Xylene	ND		0.977	0.880		mg/Kg		90	70 - 130	2	20
Toluene	ND		0.977	0.871		mg/Kg		89	70 - 130	3	20

MSD MSD

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

Eurofins Albuquerque

Prep Batch: 4855

Prep Type: Total/NA

Prep Batch: 4873

Client Sample ID: Lab Control Sample

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Prep Batch: 4873

Client: Vertex Job ID: 885-4189-1

Project/Site: Stray Cat 8 5 Federal Com #214H

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

Lab Sample ID: MB 885-4855/1-A Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Solid Analysis Batch: 4850

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		05/13/24 13:27	05/13/24 16:56	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		05/13/24 13:27	05/13/24 16:56	1

MB MB

%Recovery Qualifier Limits Dil Fac Surrogate Prepared Analyzed Di-n-octyl phthalate (Surr) 91 62 - 134 05/13/24 13:27 05/13/24 16:56

Lab Sample ID: LCS 885-4855/2-A Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 4850

Prep Batch: 4855 Spike LCS LCS Analyte Added Result Qualifier Unit D %Rec Limits Diesel Range Organics 50.0 48.7 97 60 - 135 mg/Kg

[C10-C28]

LCS LCS

Surrogate %Recovery Qualifier Limits Di-n-octyl phthalate (Surr) 117 62 - 134

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-4873/1-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 4913

мв мв

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Chloride ND 3.0 mg/Kg 05/13/24 14:48 05/13/24 22:04

Lab Sample ID: LCS 885-4873/2-A

Matrix: Solid

Analysis Batch: 4913

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit D %Rec Limits Chloride 30.0 30.2 101 90 - 110 mg/Kg

Lab Sample ID: MB 885-4913/19

Matrix: Solid

Analysis Batch: 4913

мв мв

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac 0.50 Chloride ND mg/Kg 05/13/24 07:52

Lab Sample ID: MRL 885-4913/18

Released to Imaging: 6/28/2024 10:19:19 AM

Matrix: Solid

Analysis Batch: 4913

7 						
	\$	Spike MRL	. MRL			%Rec
Analyte	A	dded Result	t Qualifier L	Jnit D	%Rec	Limits
Chloride		0.500 0.543	n	mg/L	109	50 - 150

Eurofins Albuquerque

QC Association Summary

Client: Vertex Job ID: 885-4189-1

Project/Site: Stray Cat 8 5 Federal Com #214H

GC VOA

Prep Batch: 4838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
885-4189-1	BH22-10 6'	Total/NA	Solid	5030C	
885-4189-2	BH22-11 6'	Total/NA	Solid	5030C	
885-4189-3	BH22-11 8'	Total/NA	Solid	5030C	
385-4189-4	BH24-22 6'	Total/NA	Solid	5030C	
MB 885-4838/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-4838/2-A	Lab Control Sample	Total/NA	Solid	5030C	
_CS 885-4838/3-A	Lab Control Sample	Total/NA	Solid	5030C	
385-4189-1 MS	BH22-10 6'	Total/NA	Solid	5030C	
385-4189-1 MSD	BH22-10 6'	Total/NA	Solid	5030C	
385-4189-2 MS	BH22-11 6'	Total/NA	Solid	5030C	
885-4189-2 MSD	BH22-11 6'	Total/NA	Solid	5030C	

Analysis Batch: 5117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4189-1	BH22-10 6'	Total/NA	Solid	8015D	4838
885-4189-2	BH22-11 6'	Total/NA	Solid	8015D	4838
885-4189-3	BH22-11 8'	Total/NA	Solid	8015D	4838
885-4189-4	BH24-22 6'	Total/NA	Solid	8015D	4838
MB 885-4838/1-A	Method Blank	Total/NA	Solid	8015D	4838
LCS 885-4838/2-A	Lab Control Sample	Total/NA	Solid	8015D	4838
885-4189-1 MS	BH22-10 6'	Total/NA	Solid	8015D	4838
885-4189-1 MSD	BH22-10 6'	Total/NA	Solid	8015D	4838

Analysis Batch: 5119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4189-1	BH22-10 6'	Total/NA	Solid	8021B	4838
885-4189-2	BH22-11 6'	Total/NA	Solid	8021B	4838
885-4189-3	BH22-11 8'	Total/NA	Solid	8021B	4838
885-4189-4	BH24-22 6'	Total/NA	Solid	8021B	4838
MB 885-4838/1-A	Method Blank	Total/NA	Solid	8021B	4838
LCS 885-4838/3-A	Lab Control Sample	Total/NA	Solid	8021B	4838
885-4189-2 MS	BH22-11 6'	Total/NA	Solid	8021B	4838
885-4189-2 MSD	BH22-11 6'	Total/NA	Solid	8021B	4838

GC Semi VOA

Analysis Batch: 4850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4189-1	BH22-10 6'	Total/NA	Solid	8015D	4855
885-4189-2	BH22-11 6'	Total/NA	Solid	8015D	4855
885-4189-3	BH22-11 8'	Total/NA	Solid	8015D	4855
885-4189-4	BH24-22 6'	Total/NA	Solid	8015D	4855
MB 885-4855/1-A	Method Blank	Total/NA	Solid	8015D	4855
LCS 885-4855/2-A	Lab Control Sample	Total/NA	Solid	8015D	4855

Prep Batch: 4855

Released to Imaging: 6/28/2024 10:19:19 AM

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4189-1	BH22-10 6'	Total/NA	Solid	SHAKE	
885-4189-2	BH22-11 6'	Total/NA	Solid	SHAKE	
885-4189-3	BH22-11 8'	Total/NA	Solid	SHAKE	
885-4189-4	BH24-22 6'	Total/NA	Solid	SHAKE	

Eurofins Albuquerque

3

4

6

8

3

10

QC Association Summary

Client: Vertex Job ID: 885-4189-1

Project/Site: Stray Cat 8 5 Federal Com #214H

GC Semi VOA (Continued)

Prep Batch: 4855 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-4855/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-4855/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

HPLC/IC

Prep Batch: 4873

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4189-1	BH22-10 6'	Total/NA	Solid	300_Prep	
885-4189-2	BH22-11 6'	Total/NA	Solid	300_Prep	
885-4189-3	BH22-11 8'	Total/NA	Solid	300_Prep	
885-4189-4	BH24-22 6'	Total/NA	Solid	300_Prep	
MB 885-4873/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-4873/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 4913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4189-1	BH22-10 6'	Total/NA	Solid	300.0	4873
885-4189-2	BH22-11 6'	Total/NA	Solid	300.0	4873
885-4189-3	BH22-11 8'	Total/NA	Solid	300.0	4873
885-4189-4	BH24-22 6'	Total/NA	Solid	300.0	4873
MB 885-4873/1-A	Method Blank	Total/NA	Solid	300.0	4873
MB 885-4913/19	Method Blank	Total/NA	Solid	300.0	
LCS 885-4873/2-A	Lab Control Sample	Total/NA	Solid	300.0	4873
MRL 885-4913/18	Lab Control Sample	Total/NA	Solid	300.0	

Eurofins Albuquerque

Matrix: Solid

Date Collected: 05/07/24 09:00 Date Received: 05/09/24 07:45

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			4838	AT	EET ALB	05/13/24 10:53
Total/NA	Analysis	8015D		1	5117	JP	EET ALB	05/15/24 19:22
Total/NA	Prep	5030C			4838	AT	EET ALB	05/13/24 10:53
Total/NA	Analysis	8021B		1	5119	JP	EET ALB	05/15/24 19:22
Total/NA	Prep	SHAKE			4855	JU	EET ALB	05/13/24 13:27
Total/NA	Analysis	8015D		1	4850	JU	EET ALB	05/13/24 17:21
Total/NA	Prep	300_Prep			4873	JT	EET ALB	05/13/24 14:48
Total/NA	Analysis	300.0		20	4913	SS	EET ALB	05/13/24 22:29

Client Sample ID: BH22-11 6'

Lab Sample ID: 885-4189-2 Date Collected: 05/07/24 09:15

Matrix: Solid

Date Received: 05/09/24 07:45

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			4838	AT	EET ALB	05/13/24 10:53
Total/NA	Analysis	8015D		1	5117	JP	EET ALB	05/15/24 20:32
Total/NA	Prep	5030C			4838	AT	EET ALB	05/13/24 10:53
Total/NA	Analysis	8021B		1	5119	JP	EET ALB	05/15/24 20:32
Total/NA	Prep	SHAKE			4855	JU	EET ALB	05/13/24 13:27
Total/NA	Analysis	8015D		1	4850	JU	EET ALB	05/13/24 17:33
Total/NA	Prep	300_Prep			4873	JT	EET ALB	05/13/24 14:48
Total/NA	Analysis	300.0		20	4913	SS	EET ALB	05/13/24 22:42

Client Sample ID: BH22-11 8'

Date Collected: 05/07/24 10:35

Date Received: 05/09/24 07:45

Lab	Sam	ple	ID:	88	35	-4	18	9-3	3
							_		

Lab Sample ID: 885-4189-4

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			4838	AT	EET ALB	05/13/24 10:53
Total/NA	Analysis	8015D		1	5117	JP	EET ALB	05/15/24 21:43
Total/NA	Prep	5030C			4838	AT	EET ALB	05/13/24 10:53
Total/NA	Analysis	8021B		1	5119	JP	EET ALB	05/15/24 21:43
Total/NA	Prep	SHAKE			4855	JU	EET ALB	05/13/24 13:27
Total/NA	Analysis	8015D		1	4850	JU	EET ALB	05/13/24 17:46
Total/NA	Prep	300_Prep			4873	JT	EET ALB	05/13/24 14:48
Total/NA	Analysis	300.0		20	4913	SS	EET ALB	05/13/24 22:54

Client Sample ID: BH24-22 6'

Date Collected: 05/07/24 09:30

Date Received: 05/09/24 07:45

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			4838	AT	EET ALB	05/13/24 10:53
Total/NA	Analysis	8015D		1	5117	JP	EET ALB	05/15/24 22:06

Eurofins Albuquerque

Matrix: Solid

Client: Vertex Job ID: 885-4189-1

Project/Site: Stray Cat 8 5 Federal Com #214H

Client Sample ID: BH24-22 6'

Lab Sample ID: 885-4189-4 Date Collected: 05/07/24 09:30

Matrix: Solid

Date Received: 05/09/24 07:45

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			4838	AT	EET ALB	05/13/24 10:53
Total/NA	Analysis	8021B		1	5119	JP	EET ALB	05/15/24 22:06
Total/NA	Prep	SHAKE			4855	JU	EET ALB	05/13/24 13:27
Total/NA	Analysis	8015D		1	4850	JU	EET ALB	05/13/24 17:59
Total/NA	Prep	300_Prep			4873	JT	EET ALB	05/13/24 14:48
Total/NA	Analysis	300.0		20	4913	SS	EET ALB	05/13/24 23:06

Laboratory References:

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

Accreditation/Certification Summary

Client: Vertex Job ID: 885-4189-1

Project/Site: Stray Cat 8 5 Federal Com #214H

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	
New Mexico	State		NM9425, NM0901	02-26-25	
0 ,	are included in this report, but not offer certification.	ut the laboratory is not certif	ied by the governing authority. This lis	st may include analytes	
Analysis Method	Prep Method	Matrix	Analyte		
300.0	300_Prep	Solid	Chloride		
8015D	5030C	Solid	Gasoline Range Organics	[C6 - C10]	
8015D	SHAKE	Solid	Diesel Range Organics [C	C10-C28]	
8015D	SHAKE	Solid	Motor Oil Range Organics	s [C28-C40]	
8021B	5030C	Solid	Benzene		
8021B	5030C	Solid	Ethylbenzene		
8021B	5030C	Solid	Toluene		
8021B	5030C	Solid	Xylenes, Total		
Dregon	NELA	P	NM100001	02-26-25	

Eurofins Albuquerque

Mailing Phone email of QA/QC Star	(direct to Address #: #: or Fax#: Package:	Vertex bill to Devi	on, work order 20973053) Level 4 (Full Validation)	Project #: 22E-00189 Project Mana Kent Stallings@v	d X Rush e: 5 Federal Cor ager: s		TMB's (8021)	Te	PCB's	awkir	NA www.	naller F - A 5 Ana	SIS aviron Ibuqu Fax Iysis	S L men ierqu 505	tal.co lie, NI -345- uest	M 8710	8	89 COC	then by OCE
Accred		□ Az Co □ Other Matrix		Sampler: On Ice: # of Coolers: Cooler Temp Container Type and #		□ No Mo.ty	BTEX / MTBE / TN	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082		by 8310 or	CI. F. Br. NO. NO.	(VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)				232
05/07/24	9:00	Soil	BH22-10 6'	1, 4oz jar			X	Х	- W			X		1					
05/07/24	9:15	Soil	BH22-11 6'	1, 4oz jar			х	Х				X							\forall
05/07/24	10:35	Soil	BH22-11 8'	1, 4oz jar			х	Х				X							
05/07/24	9:30	Soil	BH24-22 6'	1, 4oz jar			Х	х				Х							
Date: 5-8-34 Date:	Time:		Moun	Received by: Received by: Contracted to other a	Via: Via: Via: COUNTY accredited laboratorie	Date Time 5 0 24 0700 Date Time 5 4 7 4 5 es. This serves as notice of this	Dire cc. SMc	KSta cCar	ill to alling ty@	s@v /erte	verte: x.ca	ca, for F	CHer inal F	nsley Repo	/@ve ort	ertex.c			20 lo c42 agus

Login Sample Receipt Checklist

Client: Vertex Job Number: 885-4189-1

Login Number: 4189 List Source: Eurofins Albuquerque

List Number: 1

Creator: McQuiston, Steven

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

330

3

Λ

6

8

9



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

OrderNo.: 2204C92

May 10, 2022

Monica Peppin Devon Energy 6488 Seven Rivers Highway Artesia, NM 88210

TEL: (505) 350-1336

FAX:

RE: Stray Cat 8 5 Federal Com 214 H

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 57 sample(s) on 4/29/2022 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 don't hesitate to contact HEAL for any additional information or clarifications.

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 5/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WS22-01 0-2

 Project:
 Stray Cat 8 5 Federal Com 214 H
 Collection Date: 4/27/2022 9:00:00 AM

 Lab ID:
 2204C92-001
 Matrix: SOIL
 Received Date: 4/29/2022 7:10:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) 270 9.5 mg/Kg 1 5/4/2022 11:32:58 PM Motor Oil Range Organics (MRO) 240 48 mg/Kg 1 5/4/2022 11:32:58 PM Surr: DNOP 100 51.1-141 %Rec 1 5/4/2022 11:32:58 PM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride 5/5/2022 1:59:47 PM 150 60 mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR ND 0.024 mg/Kg 5/4/2022 9:17:22 PM 1 Toluene ND 0.049 mg/Kg 5/4/2022 9:17:22 PM 1 Ethylbenzene ND 0.049 mg/Kg 1 5/4/2022 9:17:22 PM Xylenes, Total ND 0.098 mg/Kg 1 5/4/2022 9:17:22 PM Surr: 1.2-Dichloroethane-d4 91.5 70-130 %Rec 1 5/4/2022 9:17:22 PM Surr: 4-Bromofluorobenzene 94.8 70-130 %Rec 1 5/4/2022 9:17:22 PM Surr: Dibromofluoromethane 70-130 %Rec 1 5/4/2022 9:17:22 PM 113 Surr: Toluene-d8 90.9 70-130 %Rec 1 5/4/2022 9:17:22 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JR Gasoline Range Organics (GRO) ND mg/Kg 5/4/2022 9:17:22 PM 49 1 Surr: BFB 112 70-130 %Rec 1 5/4/2022 9:17:22 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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 70

Date Reported: 5/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WS22-02 0-2

Project: Stray Cat 8 5 Federal Com 214 H **Collection Date:** 4/27/2022 9:10:00 AM

Lab ID: 2204C92-002 **Matrix:** SOIL **Received Date:** 4/29/2022 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst: SB
Diesel Range Organics (DRO)	41	9.3	mg/Kg	1	5/5/2022 10:16:32 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/5/2022 10:16:32 AM
Surr: DNOP	131	51.1-141	%Rec	1	5/5/2022 10:16:32 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	240	59	mg/Kg	20	5/5/2022 2:12:11 PM
EPA METHOD 8260B: VOLATILES SHORT	LIST				Analyst: JR
Benzene	ND	0.025	mg/Kg	1	5/4/2022 9:45:53 PM
Toluene	ND	0.050	mg/Kg	1	5/4/2022 9:45:53 PM
Ethylbenzene	ND	0.050	mg/Kg	1	5/4/2022 9:45:53 PM
Xylenes, Total	ND	0.10	mg/Kg	1	5/4/2022 9:45:53 PM
Surr: 1,2-Dichloroethane-d4	94.4	70-130	%Rec	1	5/4/2022 9:45:53 PM
Surr: 4-Bromofluorobenzene	94.7	70-130	%Rec	1	5/4/2022 9:45:53 PM
Surr: Dibromofluoromethane	119	70-130	%Rec	1	5/4/2022 9:45:53 PM
Surr: Toluene-d8	91.0	70-130	%Rec	1	5/4/2022 9:45:53 PM
EPA METHOD 8015D MOD: GASOLINE RA	ANGE				Analyst: JR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/4/2022 9:45:53 PM
Surr: BFB	109	70-130	%Rec	1	5/4/2022 9:45:53 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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 70

Date Reported: 5/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WS22-03 0-2

Project: Stray Cat 8 5 Federal Com 214 H **Collection Date:** 4/27/2022 9:20:00 AM

Lab ID: 2204C92-003 **Matrix:** SOIL **Received Date:** 4/29/2022 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: SB
Diesel Range Organics (DRO)	71	9.3	mg/Kg	1	5/4/2022 11:54:43 PM
Motor Oil Range Organics (MRO)	58	47	mg/Kg	1	5/4/2022 11:54:43 PM
Surr: DNOP	115	51.1-141	%Rec	1	5/4/2022 11:54:43 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	290	60	mg/Kg	20	5/5/2022 2:24:36 PM
EPA METHOD 8260B: VOLATILES SHORT L	IST				Analyst: JR
Benzene	ND	0.024	mg/Kg	1	5/4/2022 10:14:25 PM
Toluene	ND	0.049	mg/Kg	1	5/4/2022 10:14:25 PM
Ethylbenzene	ND	0.049	mg/Kg	1	5/4/2022 10:14:25 PM
Xylenes, Total	ND	0.098	mg/Kg	1	5/4/2022 10:14:25 PM
Surr: 1,2-Dichloroethane-d4	94.5	70-130	%Rec	1	5/4/2022 10:14:25 PM
Surr: 4-Bromofluorobenzene	98.8	70-130	%Rec	1	5/4/2022 10:14:25 PM
Surr: Dibromofluoromethane	114	70-130	%Rec	1	5/4/2022 10:14:25 PM
Surr: Toluene-d8	91.4	70-130	%Rec	1	5/4/2022 10:14:25 PM
EPA METHOD 8015D MOD: GASOLINE RAN	GE				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/4/2022 10:14:25 PM
Surr: BFB	112	70-130	%Rec	1	5/4/2022 10:14:25 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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 3 of 70

Date Reported: 5/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WS22-04 0-2

 Project:
 Stray Cat 8 5 Federal Com 214 H
 Collection Date: 4/27/2022 9:30:00 AM

 Lab ID:
 2204C92-004
 Matrix: SOIL
 Received Date: 4/29/2022 7:10:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) ND 9.9 mg/Kg 1 5/5/2022 12:05:34 AM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 5/5/2022 12:05:34 AM Surr: DNOP 104 51.1-141 %Rec 1 5/5/2022 12:05:34 AM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride ND 5/5/2022 2:37:01 PM 60 mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR ND 0.025 mg/Kg 5/5/2022 12:36:50 AM 1 Toluene ND 0.050 mg/Kg 5/5/2022 12:36:50 AM 1 Ethylbenzene ND 0.050 mg/Kg 1 5/5/2022 12:36:50 AM Xylenes, Total ND 0.099 mg/Kg 1 5/5/2022 12:36:50 AM Surr: 1.2-Dichloroethane-d4 95.2 70-130 %Rec 1 5/5/2022 12:36:50 AM Surr: 4-Bromofluorobenzene 94.9 70-130 %Rec 1 5/5/2022 12:36:50 AM Surr: Dibromofluoromethane 70-130 %Rec 1 5/5/2022 12:36:50 AM 119 Surr: Toluene-d8 90.3 70-130 %Rec 1 5/5/2022 12:36:50 AM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JR Gasoline Range Organics (GRO) ND mg/Kg 5/5/2022 12:36:50 AM 5.0 1 Surr: BFB 109 70-130 %Rec 1 5/5/2022 12:36:50 AM

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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 70

2204C92-005

Lab ID:

Analytical Report Lab Order 2204C92

Received Date: 4/29/2022 7:10:00 AM

Date Reported: 5/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WS22-05 0-2

Matrix: SOIL

Project: Stray Cat 8 5 Federal Com 214 H **Collection Date:** 4/27/2022 9:40:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) 390 9.3 mg/Kg 1 5/5/2022 12:16:24 AM Motor Oil Range Organics (MRO) 290 47 mg/Kg 1 5/5/2022 12:16:24 AM Surr: DNOP 51.1-141 %Rec 1 5/5/2022 12:16:24 AM 110 **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride 5/5/2022 2:49:25 PM 150 60 mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR ND 0.024 mg/Kg 5/5/2022 1:05:29 AM 1 Toluene ND 0.048 mg/Kg 5/5/2022 1:05:29 AM 1 Ethylbenzene ND 0.048 mg/Kg 1 5/5/2022 1:05:29 AM Xylenes, Total ND 0.097 mg/Kg 1 5/5/2022 1:05:29 AM Surr: 1.2-Dichloroethane-d4 92.6 70-130 %Rec 1 5/5/2022 1:05:29 AM Surr: 4-Bromofluorobenzene 95.0 70-130 %Rec 1 5/5/2022 1:05:29 AM Surr: Dibromofluoromethane 70-130 %Rec 1 5/5/2022 1:05:29 AM 118 Surr: Toluene-d8 91.1 70-130 %Rec 1 5/5/2022 1:05:29 AM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JR Gasoline Range Organics (GRO) ND mg/Kg 5/5/2022 1:05:29 AM 4.8 1 Surr: BFB 111 70-130 %Rec 1 5/5/2022 1:05:29 AM

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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 70

2204C92-006

Lab ID:

Analytical Report Lab Order 2204C92

Received Date: 4/29/2022 7:10:00 AM

Date Reported: 5/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WS22-06 0-2

Matrix: SOIL

Project: Stray Cat 8 5 Federal Com 214 H **Collection Date:** 4/27/2022 9:50:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) 51 9.6 mg/Kg 1 5/5/2022 10:37:36 AM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 5/5/2022 10:37:36 AM Surr: DNOP 90.8 51.1-141 %Rec 1 5/5/2022 10:37:36 AM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride 5/5/2022 3:01:49 PM 160 60 mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR ND 0.024 mg/Kg 5/5/2022 1:34:02 AM 1 Toluene ND 0.049 mg/Kg 5/5/2022 1:34:02 AM 1 Ethylbenzene ND 0.049 mg/Kg 1 5/5/2022 1:34:02 AM Xylenes, Total ND 0.097 mg/Kg 1 5/5/2022 1:34:02 AM Surr: 1.2-Dichloroethane-d4 96.3 70-130 %Rec 1 5/5/2022 1:34:02 AM Surr: 4-Bromofluorobenzene 96.2 70-130 %Rec 1 5/5/2022 1:34:02 AM Surr: Dibromofluoromethane 70-130 %Rec 1 5/5/2022 1:34:02 AM 119 Surr: Toluene-d8 90.0 70-130 %Rec 1 5/5/2022 1:34:02 AM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JR Gasoline Range Organics (GRO) ND mg/Kg 5/5/2022 1:34:02 AM 49 1 Surr: BFB 108 70-130 %Rec 1 5/5/2022 1:34:02 AM

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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 6 of 70

Date Reported: 5/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WS22-07 0-2

Project: Stray Cat 8 5 Federal Com 214 H **Collection Date:** 4/27/2022 10:00:00 AM

Lab ID: 2204C92-007 **Matrix:** SOIL **Received Date:** 4/29/2022 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: SB
Diesel Range Organics (DRO)	41	9.2	mg/Kg	1	5/4/2022 5:15:12 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	5/4/2022 5:15:12 PM
Surr: DNOP	86.0	51.1-141	%Rec	1	5/4/2022 5:15:12 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	140	60	mg/Kg	20	5/5/2022 4:03:51 PM
EPA METHOD 8260B: VOLATILES SHORT LIS	т				Analyst: BRM
Benzene	ND	0.025	mg/Kg	1	5/4/2022 2:03:23 PM
Toluene	ND	0.049	mg/Kg	1	5/4/2022 2:03:23 PM
Ethylbenzene	ND	0.049	mg/Kg	1	5/4/2022 2:03:23 PM
Xylenes, Total	ND	0.099	mg/Kg	1	5/4/2022 2:03:23 PM
Surr: 1,2-Dichloroethane-d4	103	70-130	%Rec	1	5/4/2022 2:03:23 PM
Surr: 4-Bromofluorobenzene	95.8	70-130	%Rec	1	5/4/2022 2:03:23 PM
Surr: Dibromofluoromethane	106	70-130	%Rec	1	5/4/2022 2:03:23 PM
Surr: Toluene-d8	109	70-130	%Rec	1	5/4/2022 2:03:23 PM
EPA METHOD 8015D MOD: GASOLINE RANG	E				Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/4/2022 2:03:23 PM
Surr: BFB	99.1	70-130	%Rec	1	5/4/2022 2:03:23 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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 7 of 70

Date Reported: 5/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WS22-08 0-2

 Project:
 Stray Cat 8 5 Federal Com 214 H
 Collection Date: 4/27/2022 10:10:00 AM

 Lab ID:
 2204C92-008
 Matrix: SOIL
 Received Date: 4/29/2022 7:10:00 AM

Analyses	Result	RL Qu	ıal Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: SB
Diesel Range Organics (DRO)	74	9.8	mg/Kg	1	5/4/2022 5:25:55 PM
Motor Oil Range Organics (MRO)	51	49	mg/Kg	1	5/4/2022 5:25:55 PM
Surr: DNOP	115	51.1-141	%Rec	1	5/4/2022 5:25:55 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	330	60	mg/Kg	20	5/5/2022 4:16:15 PM
EPA METHOD 8260B: VOLATILES SHORT LIS	Т				Analyst: BRM
Benzene	ND	0.025	mg/Kg	1	5/4/2022 3:24:36 PM
Toluene	ND	0.050	mg/Kg	1	5/4/2022 3:24:36 PM
Ethylbenzene	ND	0.050	mg/Kg	1	5/4/2022 3:24:36 PM
Xylenes, Total	ND	0.10	mg/Kg	1	5/4/2022 3:24:36 PM
Surr: 1,2-Dichloroethane-d4	107	70-130	%Rec	1	5/4/2022 3:24:36 PM
Surr: 4-Bromofluorobenzene	96.4	70-130	%Rec	1	5/4/2022 3:24:36 PM
Surr: Dibromofluoromethane	111	70-130	%Rec	1	5/4/2022 3:24:36 PM
Surr: Toluene-d8	109	70-130	%Rec	1	5/4/2022 3:24:36 PM
EPA METHOD 8015D MOD: GASOLINE RANGE	=				Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/4/2022 3:24:36 PM
Surr: BFB	102	70-130	%Rec	1	5/4/2022 3:24:36 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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 8 of 70

Date Reported: 5/10/2022

5/4/2022 4:45:41 PM

5/4/2022 4:45:41 PM

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WS22-09 0-2

 Project:
 Stray Cat 8 5 Federal Com 214 H
 Collection Date: 4/27/2022 10:20:00 AM

 Lab ID:
 2204C92-009
 Matrix: SOIL
 Received Date: 4/29/2022 7:10:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) 65 9.5 mg/Kg 1 5/4/2022 5:36:38 PM Motor Oil Range Organics (MRO) 54 47 mg/Kg 1 5/4/2022 5:36:38 PM Surr: DNOP 107 51.1-141 %Rec 1 5/4/2022 5:36:38 PM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride 340 60 5/5/2022 4:28:40 PM mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: BRM ND 0.024 mg/Kg 5/4/2022 4:45:41 PM 1 Toluene ND 0.049 mg/Kg 5/4/2022 4:45:41 PM 1 Ethylbenzene ND 0.049 mg/Kg 1 5/4/2022 4:45:41 PM Xylenes, Total ND 0.098 mg/Kg 1 5/4/2022 4:45:41 PM Surr: 1.2-Dichloroethane-d4 103 70-130 %Rec 1 5/4/2022 4:45:41 PM Surr: 4-Bromofluorobenzene 89.0 70-130 %Rec 1 5/4/2022 4:45:41 PM Surr: Dibromofluoromethane 106 70-130 %Rec 1 5/4/2022 4:45:41 PM Surr: Toluene-d8 102 70-130 %Rec 1 5/4/2022 4:45:41 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: BRM

ND

96.9

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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits

mg/Kg

%Rec

1

1

49

70-130

- P Sample pH Not In Range
- RL Reporting Limit

Page 9 of 70

Gasoline Range Organics (GRO)

Surr: BFB

Date Reported: 5/10/2022

5/4/2022 5:12:34 PM

5/4/2022 5:12:34 PM

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WS22-10 0-2

 Project:
 Stray Cat 8 5 Federal Com 214 H
 Collection Date: 4/27/2022 10:30:00 AM

 Lab ID:
 2204C92-010
 Matrix: SOIL
 Received Date: 4/29/2022 7:10:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) ND 10 mg/Kg 1 5/4/2022 5:47:25 PM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 5/4/2022 5:47:25 PM Surr: DNOP 51.1-141 %Rec 1 5/4/2022 5:47:25 PM 115 **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride 5/5/2022 4:41:05 PM 120 60 mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: BRM ND 0.024 mg/Kg 5/4/2022 5:12:34 PM 1 Toluene ND 0.049 mg/Kg 5/4/2022 5:12:34 PM 1 Ethylbenzene ND 0.049 mg/Kg 1 5/4/2022 5:12:34 PM Xylenes, Total ND 0.098 mg/Kg 1 5/4/2022 5:12:34 PM Surr: 1.2-Dichloroethane-d4 96.2 70-130 %Rec 1 5/4/2022 5:12:34 PM Surr: 4-Bromofluorobenzene 94.8 70-130 %Rec 1 5/4/2022 5:12:34 PM Surr: Dibromofluoromethane 70-130 %Rec 1 5/4/2022 5:12:34 PM 96.4 Surr: Toluene-d8 107 70-130 %Rec 1 5/4/2022 5:12:34 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: BRM

ND

104

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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits

mg/Kg

%Rec

1

1

49

70-130

- P Sample pH Not In Range
- RL Reporting Limit

Page 10 of 70

Gasoline Range Organics (GRO)

Surr: BFB

Date Reported: 5/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WS22-11 0-2

 Project:
 Stray Cat 8 5 Federal Com 214 H
 Collection Date: 4/27/2022 10:40:00 AM

 Lab ID:
 2204C92-011
 Matrix: SOIL
 Received Date: 4/29/2022 7:10:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) 37 9.1 mg/Kg 1 5/4/2022 5:58:14 PM Motor Oil Range Organics (MRO) ND 46 mg/Kg 1 5/4/2022 5:58:14 PM Surr: DNOP 114 51.1-141 %Rec 1 5/4/2022 5:58:14 PM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride 270 5/5/2022 1:20:49 PM 60 mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: BRM ND 0.025 mg/Kg 5/4/2022 5:39:29 PM 1 Toluene ND 0.049 mg/Kg 5/4/2022 5:39:29 PM 1 Ethylbenzene ND 0.049 mg/Kg 1 5/4/2022 5:39:29 PM Xylenes, Total ND 0.098 mg/Kg 1 5/4/2022 5:39:29 PM Surr: 1.2-Dichloroethane-d4 104 70-130 %Rec 1 5/4/2022 5:39:29 PM Surr: 4-Bromofluorobenzene 94.8 70-130 %Rec 1 5/4/2022 5:39:29 PM Surr: Dibromofluoromethane 108 70-130 %Rec 1 5/4/2022 5:39:29 PM Surr: Toluene-d8 104 70-130 %Rec 1 5/4/2022 5:39:29 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND mg/Kg 5/4/2022 5:39:29 PM 49 1 Surr: BFB 97.1 70-130 %Rec 1 5/4/2022 5:39:29 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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 11 of 70

Date Reported: 5/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WS22-12 0-2

Project: Stray Cat 8 5 Federal Com 214 H **Collection Date:** 4/27/2022 10:50:00 AM

Lab ID: 2204C92-012 **Matrix:** SOIL **Received Date:** 4/29/2022 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: SB
Diesel Range Organics (DRO)	100	9.7	mg/Kg	1	5/5/2022 12:34:15 PM
Motor Oil Range Organics (MRO)	80	48	mg/Kg	1	5/5/2022 12:34:15 PM
Surr: DNOP	107	51.1-141	%Rec	1	5/5/2022 12:34:15 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	300	59	mg/Kg	20	5/5/2022 1:33:09 PM
EPA METHOD 8260B: VOLATILES SHORT LIST	Γ				Analyst: BRM
Benzene	ND	0.025	mg/Kg	1	5/4/2022 6:06:27 PM
Toluene	ND	0.050	mg/Kg	1	5/4/2022 6:06:27 PM
Ethylbenzene	ND	0.050	mg/Kg	1	5/4/2022 6:06:27 PM
Xylenes, Total	ND	0.10	mg/Kg	1	5/4/2022 6:06:27 PM
Surr: 1,2-Dichloroethane-d4	96.7	70-130	%Rec	1	5/4/2022 6:06:27 PM
Surr: 4-Bromofluorobenzene	96.9	70-130	%Rec	1	5/4/2022 6:06:27 PM
Surr: Dibromofluoromethane	102	70-130	%Rec	1	5/4/2022 6:06:27 PM
Surr: Toluene-d8	109	70-130	%Rec	1	5/4/2022 6:06:27 PM
EPA METHOD 8015D MOD: GASOLINE RANGE	i				Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/4/2022 6:06:27 PM
Surr: BFB	107	70-130	%Rec	1	5/4/2022 6:06:27 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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 12 of 70

Analytical Report

Lab Order **2204C92**Date Reported: **5/10/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WS22-13 0-2

Project: Stray Cat 8 5 Federal Com 214 H **Collection Date:** 4/27/2022 11:00:00 AM

Lab ID: 2204C92-013 **Matrix:** SOIL **Received Date:** 4/29/2022 7:10:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA				Analyst: SB	
Diesel Range Organics (DRO)	74	9.7	mg/Kg	1	5/5/2022 12:44:57 PM
Motor Oil Range Organics (MRO)	77	49	mg/Kg	1	5/5/2022 12:44:57 PM
Surr: DNOP	112	51.1-141	%Rec	1	5/5/2022 12:44:57 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	770	59	mg/Kg	20	5/5/2022 1:45:30 PM
EPA METHOD 8260B: VOLATILES SHORT LIST	Γ				Analyst: BRM
Benzene	ND	0.025	mg/Kg	1	5/4/2022 6:33:24 PM
Toluene	ND	0.050	mg/Kg	1	5/4/2022 6:33:24 PM
Ethylbenzene	ND	0.050	mg/Kg	1	5/4/2022 6:33:24 PM
Xylenes, Total	ND	0.10	mg/Kg	1	5/4/2022 6:33:24 PM
Surr: 1,2-Dichloroethane-d4	104	70-130	%Rec	1	5/4/2022 6:33:24 PM
Surr: 4-Bromofluorobenzene	96.0	70-130	%Rec	1	5/4/2022 6:33:24 PM
Surr: Dibromofluoromethane	105	70-130	%Rec	1	5/4/2022 6:33:24 PM
Surr: Toluene-d8	104	70-130	%Rec	1	5/4/2022 6:33:24 PM
EPA METHOD 8015D MOD: GASOLINE RANGE	į				Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/4/2022 6:33:24 PM
Surr: BFB	98.0	70-130	%Rec	1	5/4/2022 6:33:24 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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

porting Limit Page 13 of 70

Date Reported: 5/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WS22-14 0-2

 Project:
 Stray Cat 8 5 Federal Com 214 H
 Collection Date: 4/27/2022 11:10:00 AM

 Lab ID:
 2204C92-014
 Matrix: SOIL
 Received Date: 4/29/2022 7:10:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) 5/5/2022 12:55:40 PM 98 9.6 mg/Kg 1 Motor Oil Range Organics (MRO) 94 48 mg/Kg 1 5/5/2022 12:55:40 PM Surr: DNOP 117 51.1-141 %Rec 1 5/5/2022 12:55:40 PM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride 1800 5/5/2022 1:57:50 PM 59 mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: BRM ND 0.024 mg/Kg 5/4/2022 7:00:20 PM 1 Toluene ND 0.049 mg/Kg 5/4/2022 7:00:20 PM 1 Ethylbenzene ND 0.049 mg/Kg 1 5/4/2022 7:00:20 PM Xylenes, Total ND 0.098 mg/Kg 1 5/4/2022 7:00:20 PM Surr: 1.2-Dichloroethane-d4 97.7 70-130 %Rec 1 5/4/2022 7:00:20 PM Surr: 4-Bromofluorobenzene 96.7 70-130 %Rec 1 5/4/2022 7:00:20 PM Surr: Dibromofluoromethane 99.5 70-130 %Rec 1 5/4/2022 7:00:20 PM Surr: Toluene-d8 110 70-130 %Rec 1 5/4/2022 7:00:20 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND mg/Kg 5/4/2022 7:00:20 PM 49 1 Surr: BFB 103 70-130 %Rec 1 5/4/2022 7:00:20 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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 14 of 70

Lab ID:

Analytical Report Lab Order 2204C92

Received Date: 4/29/2022 7:10:00 AM

Date Reported: 5/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WS22-15 0-2

Matrix: SOIL

Project: Stray Cat 8 5 Federal Com 214 H **Collection Date:** 4/27/2022 11:20:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) ND 9.7 mg/Kg 1 5/5/2022 1:06:24 PM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 5/5/2022 1:06:24 PM Surr: DNOP 105 51.1-141 %Rec 1 5/5/2022 1:06:24 PM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride 1400 5/5/2022 2:10:12 PM 60 mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: BRM ND 0.025 mg/Kg 5/4/2022 7:27:10 PM 1 Toluene ND 0.049 mg/Kg 5/4/2022 7:27:10 PM 1 Ethylbenzene ND 0.049 mg/Kg 1 5/4/2022 7:27:10 PM Xylenes, Total ND 0.099 mg/Kg 1 5/4/2022 7:27:10 PM Surr: 1.2-Dichloroethane-d4 102 70-130 %Rec 1 5/4/2022 7:27:10 PM Surr: 4-Bromofluorobenzene 105 70-130 %Rec 1 5/4/2022 7:27:10 PM Surr: Dibromofluoromethane 103 70-130 %Rec 1 5/4/2022 7:27:10 PM Surr: Toluene-d8 106 70-130 %Rec 1 5/4/2022 7:27:10 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND mg/Kg 5/4/2022 7:27:10 PM 49 1 Surr: BFB 106 70-130 %Rec 1 5/4/2022 7:27:10 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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 15 of 70

Surr: 4-Bromofluorobenzene

Surr: Dibromofluoromethane

Gasoline Range Organics (GRO)

EPA METHOD 8015D MOD: GASOLINE RANGE

Surr: Toluene-d8

Surr: BFB

Analytical Report Lab Order 2204C92

Date Reported: 5/10/2022

5/4/2022 7:54:02 PM

Analyst: BRM

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WS22-16 0-2

 Project:
 Stray Cat 8 5 Federal Com 214 H
 Collection Date: 4/27/2022 11:30:00 AM

 Lab ID:
 2204C92-016
 Matrix: SOIL
 Received Date: 4/29/2022 7:10:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) 42 9.7 mg/Kg 1 5/5/2022 1:17:08 PM Motor Oil Range Organics (MRO) 49 48 mg/Kg 1 5/5/2022 1:17:08 PM Surr: DNOP 111 51.1-141 %Rec 1 5/5/2022 1:17:08 PM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride 1800 5/5/2022 2:22:33 PM 60 mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: BRM ND 0.025 mg/Kg 5/4/2022 7:54:02 PM 1 Toluene ND 0.049 mg/Kg 5/4/2022 7:54:02 PM 1 Ethylbenzene ND 0.049 mg/Kg 1 5/4/2022 7:54:02 PM Xylenes, Total ND 0.099 mg/Kg 1 5/4/2022 7:54:02 PM Surr: 1.2-Dichloroethane-d4 101 70-130 %Rec 1 5/4/2022 7:54:02 PM

97.8

103

110

ND

104

70-130

70-130

70-130

70-130

49

%Rec

%Rec

%Rec

mg/Kg

%Rec

1

1

1

1

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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 16 of 70

Date Reported: 5/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WS22-17 0-2

Project: Stray Cat 8 5 Federal Com 214 H **Collection Date:** 4/27/2022 11:40:00 AM

Lab ID: 2204C92-017 **Matrix:** SOIL **Received Date:** 4/29/2022 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst: SB
Diesel Range Organics (DRO)	100	9.7	mg/Kg	1	5/5/2022 1:27:53 PM
Motor Oil Range Organics (MRO)	90	49	mg/Kg	1	5/5/2022 1:27:53 PM
Surr: DNOP	90.3	51.1-141	%Rec	1	5/5/2022 1:27:53 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	1400	60	mg/Kg	20	5/5/2022 2:34:53 PM
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst: BRM
Benzene	ND	0.024	mg/Kg	1	5/4/2022 8:21:01 PM
Toluene	ND	0.048	mg/Kg	1	5/4/2022 8:21:01 PM
Ethylbenzene	ND	0.048	mg/Kg	1	5/4/2022 8:21:01 PM
Xylenes, Total	ND	0.097	mg/Kg	1	5/4/2022 8:21:01 PM
Surr: 1,2-Dichloroethane-d4	101	70-130	%Rec	1	5/4/2022 8:21:01 PM
Surr: 4-Bromofluorobenzene	96.5	70-130	%Rec	1	5/4/2022 8:21:01 PM
Surr: Dibromofluoromethane	109	70-130	%Rec	1	5/4/2022 8:21:01 PM
Surr: Toluene-d8	110	70-130	%Rec	1	5/4/2022 8:21:01 PM
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/4/2022 8:21:01 PM
Surr: BFB	104	70-130	%Rec	1	5/4/2022 8:21:01 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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 17 of 70

Date Reported: 5/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WS22-18 0-2

Project: Stray Cat 8 5 Federal Com 214 H **Collection Date:** 4/27/2022 11:50:00 AM

Lab ID: 2204C92-018 **Matrix:** SOIL **Received Date:** 4/29/2022 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: SB
Diesel Range Organics (DRO)	130	9.6	mg/Kg	1	5/5/2022 1:38:39 PM
Motor Oil Range Organics (MRO)	110	48	mg/Kg	1	5/5/2022 1:38:39 PM
Surr: DNOP	95.6	51.1-141	%Rec	1	5/5/2022 1:38:39 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	2400	150	mg/Kg	50	5/6/2022 1:37:44 PM
EPA METHOD 8260B: VOLATILES SHORT LIST	Т				Analyst: BRM
Benzene	ND	0.025	mg/Kg	1	5/4/2022 8:48:10 PM
Toluene	ND	0.049	mg/Kg	1	5/4/2022 8:48:10 PM
Ethylbenzene	ND	0.049	mg/Kg	1	5/4/2022 8:48:10 PM
Xylenes, Total	ND	0.098	mg/Kg	1	5/4/2022 8:48:10 PM
Surr: 1,2-Dichloroethane-d4	107	70-130	%Rec	1	5/4/2022 8:48:10 PM
Surr: 4-Bromofluorobenzene	94.3	70-130	%Rec	1	5/4/2022 8:48:10 PM
Surr: Dibromofluoromethane	109	70-130	%Rec	1	5/4/2022 8:48:10 PM
Surr: Toluene-d8	100	70-130	%Rec	1	5/4/2022 8:48:10 PM
EPA METHOD 8015D MOD: GASOLINE RANGE	.				Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/4/2022 8:48:10 PM
Surr: BFB	93.9	70-130	%Rec	1	5/4/2022 8:48:10 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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 18 of 70

Date Reported: 5/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WS22-19 0-2

Project: Stray Cat 8 5 Federal Com 214 H **Collection Date:** 4/27/2022 12:00:00 PM

Lab ID: 2204C92-019 **Matrix:** SOIL **Received Date:** 4/29/2022 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: SB
Diesel Range Organics (DRO)	55	9.9	mg/Kg	1	5/5/2022 1:49:26 PM
Motor Oil Range Organics (MRO)	53	49	mg/Kg	1	5/5/2022 1:49:26 PM
Surr: DNOP	96.6	51.1-141	%Rec	1	5/5/2022 1:49:26 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	2000	60	mg/Kg	20	5/5/2022 3:48:58 PM
EPA METHOD 8260B: VOLATILES SHORT LI	ST				Analyst: BRM
Benzene	ND	0.024	mg/Kg	1	5/4/2022 9:15:03 PM
Toluene	ND	0.049	mg/Kg	1	5/4/2022 9:15:03 PM
Ethylbenzene	ND	0.049	mg/Kg	1	5/4/2022 9:15:03 PM
Xylenes, Total	ND	0.098	mg/Kg	1	5/4/2022 9:15:03 PM
Surr: 1,2-Dichloroethane-d4	94.8	70-130	%Rec	1	5/4/2022 9:15:03 PM
Surr: 4-Bromofluorobenzene	94.4	70-130	%Rec	1	5/4/2022 9:15:03 PM
Surr: Dibromofluoromethane	97.0	70-130	%Rec	1	5/4/2022 9:15:03 PM
Surr: Toluene-d8	106	70-130	%Rec	1	5/4/2022 9:15:03 PM
EPA METHOD 8015D MOD: GASOLINE RANG	GE				Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/4/2022 9:15:03 PM
Surr: BFB	97.4	70-130	%Rec	1	5/4/2022 9:15:03 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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 19 of 70

Date Reported: 5/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WS22-20 0-2

 Project:
 Stray Cat 8 5 Federal Com 214 H
 Collection Date: 4/27/2022 12:10:00 PM

 Lab ID:
 2204C92-020
 Matrix: SOIL
 Received Date: 4/29/2022 7:10:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) 13 9.0 mg/Kg 1 5/5/2022 2:00:12 PM Motor Oil Range Organics (MRO) ND 45 mg/Kg 1 5/5/2022 2:00:12 PM Surr: DNOP 94.5 51.1-141 %Rec 1 5/5/2022 2:00:12 PM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride 460 5/5/2022 4:01:19 PM 60 mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: BRM ND 0.025 mg/Kg 5/4/2022 9:41:57 PM 1 Toluene ND 0.050 mg/Kg 5/4/2022 9:41:57 PM 1 Ethylbenzene ND 0.050 mg/Kg 1 5/4/2022 9:41:57 PM Xylenes, Total ND 0.10 mg/Kg 1 5/4/2022 9:41:57 PM Surr: 1.2-Dichloroethane-d4 95.5 70-130 %Rec 1 5/4/2022 9:41:57 PM Surr: 4-Bromofluorobenzene 90.9 70-130 %Rec 1 5/4/2022 9:41:57 PM Surr: Dibromofluoromethane 101 70-130 %Rec 1 5/4/2022 9:41:57 PM Surr: Toluene-d8 107 70-130 %Rec 1 5/4/2022 9:41:57 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND mg/Kg 5/4/2022 9:41:57 PM 5.0 1 Surr: BFB 102 70-130 %Rec 1 5/4/2022 9:41:57 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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 20 of 70

Date Reported: 5/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WS22-21 0-2

 Project:
 Stray Cat 8 5 Federal Com 214 H
 Collection Date: 4/27/2022 12:20:00 PM

 Lab ID:
 2204C92-021
 Matrix: SOIL
 Received Date: 4/29/2022 7:10:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) 38 9.6 mg/Kg 1 5/5/2022 2:11:00 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 5/5/2022 2:11:00 PM Surr: DNOP 93.6 51.1-141 %Rec 1 5/5/2022 2:11:00 PM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride 270 5/5/2022 4:13:40 PM 60 mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: BRM ND 0.025 mg/Kg 5/5/2022 12:50:30 AM 1 Toluene ND 0.050 mg/Kg 5/5/2022 12:50:30 AM 1 Ethylbenzene ND 0.050 mg/Kg 1 5/5/2022 12:50:30 AM Xylenes, Total ND 0.099 mg/Kg 1 5/5/2022 12:50:30 AM Surr: 1.2-Dichloroethane-d4 102 70-130 %Rec 1 5/5/2022 12:50:30 AM Surr: 4-Bromofluorobenzene 98.8 70-130 %Rec 1 5/5/2022 12:50:30 AM Surr: Dibromofluoromethane 102 70-130 %Rec 1 5/5/2022 12:50:30 AM Surr: Toluene-d8 103 70-130 %Rec 1 5/5/2022 12:50:30 AM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 5/5/2022 12:50:30 AM 5.0 mg/Kg 1 Surr: BFB 98.8 70-130 %Rec 1 5/5/2022 12:50:30 AM

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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 21 of 70

Date Reported: 5/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WS22-22 0-2

Project: Stray Cat 8 5 Federal Com 214 H **Collection Date:** 4/27/2022 12:30:00 PM

Lab ID: 2204C92-022 **Matrix:** SOIL **Received Date:** 4/29/2022 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: SB
Diesel Range Organics (DRO)	22	9.2	mg/Kg	1	5/5/2022 2:21:49 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	5/5/2022 2:21:49 PM
Surr: DNOP	114	51.1-141	%Rec	1	5/5/2022 2:21:49 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	160	60	mg/Kg	20	5/5/2022 4:26:01 PM
EPA METHOD 8260B: VOLATILES SHORT LI	ST				Analyst: BRM
Benzene	ND	0.025	mg/Kg	1	5/5/2022 1:17:21 AM
Toluene	ND	0.050	mg/Kg	1	5/5/2022 1:17:21 AM
Ethylbenzene	ND	0.050	mg/Kg	1	5/5/2022 1:17:21 AM
Xylenes, Total	ND	0.099	mg/Kg	1	5/5/2022 1:17:21 AM
Surr: 1,2-Dichloroethane-d4	105	70-130	%Rec	1	5/5/2022 1:17:21 AM
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	5/5/2022 1:17:21 AM
Surr: Dibromofluoromethane	109	70-130	%Rec	1	5/5/2022 1:17:21 AM
Surr: Toluene-d8	115	70-130	%Rec	1	5/5/2022 1:17:21 AM
EPA METHOD 8015D MOD: GASOLINE RANG	GE				Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/5/2022 1:17:21 AM
Surr: BFB	109	70-130	%Rec	1	5/5/2022 1:17:21 AM

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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 22 of 70

Date Reported: 5/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WS22-23 0-2

 Project:
 Stray Cat 8 5 Federal Com 214 H
 Collection Date: 4/27/2022 12:40:00 PM

 Lab ID:
 2204C92-023
 Matrix: SOIL
 Received Date: 4/29/2022 7:10:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) 96 9.3 mg/Kg 1 5/5/2022 2:32:39 PM Motor Oil Range Organics (MRO) 76 46 mg/Kg 1 5/5/2022 2:32:39 PM Surr: DNOP 114 51.1-141 %Rec 1 5/5/2022 2:32:39 PM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride 5/5/2022 4:38:22 PM 290 60 mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: BRM ND 0.025 mg/Kg 5/5/2022 1:44:20 AM 1 Toluene ND 0.050 mg/Kg 5/5/2022 1:44:20 AM 1 Ethylbenzene ND 0.050 mg/Kg 1 5/5/2022 1:44:20 AM Xylenes, Total ND 0.10 mg/Kg 1 5/5/2022 1:44:20 AM Surr: 1.2-Dichloroethane-d4 101 70-130 %Rec 1 5/5/2022 1:44:20 AM Surr: 4-Bromofluorobenzene 93.5 70-130 %Rec 1 5/5/2022 1:44:20 AM Surr: Dibromofluoromethane 102 70-130 %Rec 1 5/5/2022 1:44:20 AM Surr: Toluene-d8 109 70-130 %Rec 1 5/5/2022 1:44:20 AM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND mg/Kg 5/5/2022 1:44:20 AM 5.0 1 Surr: BFB 102 70-130 %Rec 1 5/5/2022 1:44:20 AM

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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 23 of 70

Date Reported: 5/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WS22-24 0-2

Project: Stray Cat 8 5 Federal Com 214 H **Collection Date:** 4/27/2022 12:50:00 PM

Lab ID: 2204C92-024 **Matrix:** SOIL **Received Date:** 4/29/2022 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst: SB
Diesel Range Organics (DRO)	11	9.7	mg/Kg	1	5/5/2022 2:43:36 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/5/2022 2:43:36 PM
Surr: DNOP	113	51.1-141	%Rec	1	5/5/2022 2:43:36 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	160	61	mg/Kg	20	5/5/2022 4:50:43 PM
EPA METHOD 8260B: VOLATILES SHORT LIST	Г				Analyst: BRM
Benzene	ND	0.024	mg/Kg	1	5/5/2022 2:11:18 AM
Toluene	ND	0.049	mg/Kg	1	5/5/2022 2:11:18 AM
Ethylbenzene	ND	0.049	mg/Kg	1	5/5/2022 2:11:18 AM
Xylenes, Total	ND	0.098	mg/Kg	1	5/5/2022 2:11:18 AM
Surr: 1,2-Dichloroethane-d4	96.2	70-130	%Rec	1	5/5/2022 2:11:18 AM
Surr: 4-Bromofluorobenzene	93.7	70-130	%Rec	1	5/5/2022 2:11:18 AM
Surr: Dibromofluoromethane	100	70-130	%Rec	1	5/5/2022 2:11:18 AM
Surr: Toluene-d8	103	70-130	%Rec	1	5/5/2022 2:11:18 AM
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/5/2022 2:11:18 AM
Surr: BFB	96.8	70-130	%Rec	1	5/5/2022 2:11:18 AM

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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 24 of 70

Lab ID:

Analytical Report Lab Order 2204C92

Received Date: 4/29/2022 7:10:00 AM

Date Reported: 5/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WS22-25 0-2

Matrix: SOIL

Project: Stray Cat 8 5 Federal Com 214 H **Collection Date:** 4/27/2022 1:00:00 PM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) 19 9.3 mg/Kg 1 5/5/2022 2:54:37 PM Motor Oil Range Organics (MRO) ND 46 mg/Kg 1 5/5/2022 2:54:37 PM Surr: DNOP 51.1-141 %Rec 1 5/5/2022 2:54:37 PM 113 **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride 5/5/2022 5:03:03 PM 190 59 mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: BRM ND 0.025 mg/Kg 5/5/2022 2:38:18 AM 1 Toluene ND 0.049 mg/Kg 5/5/2022 2:38:18 AM 1 Ethylbenzene ND 0.049 mg/Kg 1 5/5/2022 2:38:18 AM Xylenes, Total ND 0.098 mg/Kg 1 5/5/2022 2:38:18 AM Surr: 1.2-Dichloroethane-d4 109 70-130 %Rec 1 5/5/2022 2:38:18 AM Surr: 4-Bromofluorobenzene 93.1 70-130 %Rec 1 5/5/2022 2:38:18 AM Surr: Dibromofluoromethane 70-130 %Rec 1 5/5/2022 2:38:18 AM 114 Surr: Toluene-d8 99.2 70-130 %Rec 1 5/5/2022 2:38:18 AM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND mg/Kg 5/5/2022 2:38:18 AM 49 1 Surr: BFB 94.5 70-130 %Rec 1 5/5/2022 2:38:18 AM

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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 25 of 70

Lab ID:

Analytical Report Lab Order 2204C92

Received Date: 4/29/2022 7:10:00 AM

Date Reported: 5/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WS22-26 0-2

Matrix: SOIL

Project: Stray Cat 8 5 Federal Com 214 H **Collection Date:** 4/27/2022 1:10:00 PM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) 100 9.5 mg/Kg 1 5/5/2022 3:05:32 PM Motor Oil Range Organics (MRO) 66 48 mg/Kg 1 5/5/2022 3:05:32 PM Surr: DNOP 104 51.1-141 %Rec 1 5/5/2022 3:05:32 PM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride 5/5/2022 5:40:05 PM 180 60 mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: BRM ND 0.025 mg/Kg 5/5/2022 3:05:19 AM 1 Toluene ND 0.050 mg/Kg 5/5/2022 3:05:19 AM 1 Ethylbenzene ND 0.050 mg/Kg 1 5/5/2022 3:05:19 AM Xylenes, Total ND 0.099 mg/Kg 1 5/5/2022 3:05:19 AM Surr: 1.2-Dichloroethane-d4 94.6 70-130 %Rec 1 5/5/2022 3:05:19 AM Surr: 4-Bromofluorobenzene 96.4 70-130 %Rec 1 5/5/2022 3:05:19 AM Surr: Dibromofluoromethane 102 70-130 %Rec 1 5/5/2022 3:05:19 AM Surr: Toluene-d8 107 70-130 %Rec 1 5/5/2022 3:05:19 AM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND mg/Kg 5/5/2022 3:05:19 AM 5.0 1 Surr: BFB 105 70-130 %Rec 1 5/5/2022 3:05:19 AM

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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 26 of 70

Date Reported: 5/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WS22-27 0-2

Project: Stray Cat 8 5 Federal Com 214 H **Collection Date:** 4/27/2022 1:20:00 PM

Lab ID: 2204C92-027 **Matrix:** SOIL **Received Date:** 4/29/2022 7:10:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	Analyst: ED				
Diesel Range Organics (DRO)	47	9.2	mg/Kg	1	5/4/2022 2:19:05 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	5/4/2022 2:19:05 PM
Surr: DNOP	98.1	51.1-141	%Rec	1	5/4/2022 2:19:05 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/4/2022 12:05:07 AM
Surr: BFB	104	37.7-212	%Rec	1	5/4/2022 12:05:07 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	5/4/2022 12:05:07 AM
Toluene	ND	0.048	mg/Kg	1	5/4/2022 12:05:07 AM
Ethylbenzene	ND	0.048	mg/Kg	1	5/4/2022 12:05:07 AM
Xylenes, Total	ND	0.096	mg/Kg	1	5/4/2022 12:05:07 AM
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	5/4/2022 12:05:07 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	270	60	mg/Kg	20	5/5/2022 6:17:07 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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 27 of 70

Lab ID:

Analytical Report Lab Order 2204C92

Received Date: 4/29/2022 7:10:00 AM

Date Reported: 5/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WS22-28 0-2

Matrix: SOIL

Stray Cat 8 5 Federal Com 214 H **Project:** Collection Date: 4/27/2022 1:30:00 PM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: ED Diesel Range Organics (DRO) 21 9.4 mg/Kg 1 5/4/2022 2:33:02 PM Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 5/4/2022 2:33:02 PM Surr: DNOP 98.5 51.1-141 %Rec 1 5/4/2022 2:33:02 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 5/4/2022 12:28:30 AM 4.8 mg/Kg 1 Surr: BFB 101 37.7-212 %Rec 1 5/4/2022 12:28:30 AM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.024 mg/Kg 5/4/2022 12:28:30 AM 1 Toluene ND 0.048 mg/Kg 1 5/4/2022 12:28:30 AM Ethylbenzene ND 0.048 mg/Kg 1 5/4/2022 12:28:30 AM Xylenes, Total ND 0.096 mg/Kg 1 5/4/2022 12:28:30 AM Surr: 4-Bromofluorobenzene 97.3 70-130 %Rec 1 5/4/2022 12:28:30 AM Analyst: JMT **EPA METHOD 300.0: ANIONS** Chloride 60 5/5/2022 6:29:27 PM 150 ma/Ka 20

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

Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix interference

Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

Sample pH Not In Range

Page 28 of 70 Reporting Limit RL

Lab ID:

Analytical Report Lab Order 2204C92

Received Date: 4/29/2022 7:10:00 AM

Date Reported: 5/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS22-01 2

Project: Stray Cat 8 5 Federal Com 214 H **Collection Date:** 4/27/2022 1:40:00 PM

Matrix: SOIL

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: ED Diesel Range Organics (DRO) 56 9.3 mg/Kg 1 5/4/2022 2:46:48 PM Motor Oil Range Organics (MRO) ND 46 mg/Kg 1 5/4/2022 2:46:48 PM 51.1-141 Surr: DNOP 97.1 %Rec 1 5/4/2022 2:46:48 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 5/4/2022 12:51:59 AM 4.7 mg/Kg 1 Surr: BFB 106 37.7-212 %Rec 1 5/4/2022 12:51:59 AM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.023 mg/Kg 5/4/2022 12:51:59 AM 1 Toluene ND 0.047 mg/Kg 1 5/4/2022 12:51:59 AM Ethylbenzene ND 0.047 mg/Kg 1 5/4/2022 12:51:59 AM Xylenes, Total ND 0.094 mg/Kg 1 5/4/2022 12:51:59 AM Surr: 4-Bromofluorobenzene 103 70-130 %Rec 1 5/4/2022 12:51:59 AM Analyst: JMT **EPA METHOD 300.0: ANIONS** Chloride 200 60 5/5/2022 6:41:49 PM ma/Ka 20

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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 29 of 70

Lab ID:

Analytical Report Lab Order 2204C92

Received Date: 4/29/2022 7:10:00 AM

Date Reported: 5/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS22-02 2

Project: Stray Cat 8 5 Federal Com 214 H **Collection Date:** 4/27/2022 1:50:00 PM

Matrix: SOIL

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: ED Diesel Range Organics (DRO) 17 9.7 mg/Kg 1 5/4/2022 3:00:32 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 5/4/2022 3:00:32 PM 51.1-141 Surr: DNOP 106 %Rec 1 5/4/2022 3:00:32 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 5/4/2022 1:15:36 AM 4.7 mg/Kg 1 Surr: BFB 103 37.7-212 %Rec 1 5/4/2022 1:15:36 AM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 5/4/2022 1:15:36 AM 0.024 mg/Kg 1 Toluene ND 0.047 mg/Kg 1 5/4/2022 1:15:36 AM Ethylbenzene ND 0.047 mg/Kg 1 5/4/2022 1:15:36 AM Xylenes, Total ND 0.095 mg/Kg 1 5/4/2022 1:15:36 AM Surr: 4-Bromofluorobenzene 101 70-130 %Rec 1 5/4/2022 1:15:36 AM Analyst: JMT **EPA METHOD 300.0: ANIONS** Chloride 88 60 5/5/2022 6:54:10 PM ma/Ka 20

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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 30 of 70

Lab ID:

Analytical Report Lab Order 2204C92

Received Date: 4/29/2022 7:10:00 AM

Date Reported: 5/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS22-03 2

Stray Cat 8 5 Federal Com 214 H **Project:** Collection Date: 4/27/2022 2:00:00 PM

Matrix: SOIL

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: ED Diesel Range Organics (DRO) 120 9.8 mg/Kg 1 5/4/2022 3:14:47 PM Motor Oil Range Organics (MRO) 77 49 mg/Kg 1 5/4/2022 3:14:47 PM Surr: DNOP 99.7 51.1-141 %Rec 1 5/4/2022 3:14:47 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 5/4/2022 1:39:10 AM 4.8 mg/Kg 1 Surr: BFB 102 37.7-212 %Rec 1 5/4/2022 1:39:10 AM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 5/4/2022 1:39:10 AM 0.024 mg/Kg 1 Toluene ND 0.048 mg/Kg 1 5/4/2022 1:39:10 AM Ethylbenzene ND 0.048 mg/Kg 1 5/4/2022 1:39:10 AM Xylenes, Total ND 0.097 mg/Kg 1 5/4/2022 1:39:10 AM 5/4/2022 1:39:10 AM Surr: 4-Bromofluorobenzene 97.9 70-130 %Rec 1 Analyst: JMT **EPA METHOD 300.0: ANIONS** Chloride 60 5/5/2022 5:18:18 PM

190

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
- Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference
- Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits

ma/Ka

20

- Sample pH Not In Range
- Reporting Limit RL

Page 31 of 70

Lab ID:

Analytical Report Lab Order 2204C92

Received Date: 4/29/2022 7:10:00 AM

Date Reported: 5/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS22-04 2

Project: Stray Cat 8 5 Federal Com 214 H **Collection Date:** 4/27/2022 2:10:00 PM

Matrix: SOIL

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: ED Diesel Range Organics (DRO) 94 9.5 mg/Kg 1 5/4/2022 3:28:46 PM Motor Oil Range Organics (MRO) 74 47 mg/Kg 1 5/4/2022 3:28:46 PM Surr: DNOP 103 51.1-141 %Rec 1 5/4/2022 3:28:46 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 5/4/2022 2:02:45 AM 5.0 mg/Kg 1 Surr: BFB 97.4 37.7-212 %Rec 1 5/4/2022 2:02:45 AM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 5/4/2022 2:02:45 AM 0.025 mg/Kg 1 Toluene ND 0.050 mg/Kg 1 5/4/2022 2:02:45 AM Ethylbenzene ND 0.050 mg/Kg 1 5/4/2022 2:02:45 AM Xylenes, Total ND 0.099 mg/Kg 1 5/4/2022 2:02:45 AM Surr: 4-Bromofluorobenzene 96.7 70-130 %Rec 1 5/4/2022 2:02:45 AM Analyst: JMT **EPA METHOD 300.0: ANIONS** Chloride 230 60 5/5/2022 5:30:42 PM ma/Ka 20

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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 32 of 70

Lab ID:

Analytical Report Lab Order 2204C92

Date Reported: 5/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS22-05 2

Stray Cat 8 5 Federal Com 214 H **Project:** Collection Date: 4/27/2022 2:20:00 PM

Matrix: SOIL

Received Date: 4/29/2022 7:10:00 AM Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: ED Diesel Range Organics (DRO) ND 9.5 mg/Kg 1 5/4/2022 3:42:43 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 5/4/2022 3:42:43 PM 51.1-141 Surr: DNOP 103 %Rec 1 5/4/2022 3:42:43 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 5/4/2022 2:26:25 AM 5.0 mg/Kg 1 Surr: BFB 99.6 37.7-212 %Rec 1 5/4/2022 2:26:25 AM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 5/4/2022 2:26:25 AM 0.025 mg/Kg 1 Toluene ND 0.050 mg/Kg 1 5/4/2022 2:26:25 AM Ethylbenzene ND 0.050 mg/Kg 1 5/4/2022 2:26:25 AM Xylenes, Total ND 0.099 mg/Kg 1 5/4/2022 2:26:25 AM Surr: 4-Bromofluorobenzene 98.8 70-130 %Rec 1 5/4/2022 2:26:25 AM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride ND 60 5/5/2022 6:07:55 PM ma/Ka 20

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

Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix interference

Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

Sample pH Not In Range

Page 33 of 70 Reporting Limit RL

Lab ID:

Analytical Report Lab Order 2204C92

Received Date: 4/29/2022 7:10:00 AM

Date Reported: 5/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS22-06 2

Project: Stray Cat 8 5 Federal Com 214 H **Collection Date:** 4/27/2022 2:30:00 PM

Matrix: SOIL

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: ED Diesel Range Organics (DRO) ND 9.8 mg/Kg 1 5/4/2022 3:56:36 PM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 5/4/2022 3:56:36 PM 51.1-141 Surr: DNOP 103 %Rec 1 5/4/2022 3:56:36 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 5/4/2022 3:13:15 AM 4.8 mg/Kg 1 Surr: BFB 98.1 37.7-212 %Rec 1 5/4/2022 3:13:15 AM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.024 mg/Kg 5/4/2022 3:13:15 AM 1 Toluene ND 0.048 mg/Kg 1 5/4/2022 3:13:15 AM Ethylbenzene ND 0.048 mg/Kg 1 5/4/2022 3:13:15 AM Xylenes, Total ND 0.096 mg/Kg 1 5/4/2022 3:13:15 AM Surr: 4-Bromofluorobenzene 99.8 70-130 %Rec 1 5/4/2022 3:13:15 AM **EPA METHOD 300.0: ANIONS** Analyst: **JMT** Chloride ND 60 5/5/2022 6:45:08 PM ma/Ka 20

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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 34 of 70

EPA METHOD 300.0: ANIONS

Chloride

Lab ID:

Analytical ReportLab Order **2204C92**

Received Date: 4/29/2022 7:10:00 AM

Date Reported: 5/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS22-07 2

Project: Stray Cat 8 5 Federal Com 214 H **Collection Date:** 4/27/2022 2:40:00 PM

Matrix: SOIL

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: ED Diesel Range Organics (DRO) 48 9.6 mg/Kg 1 5/4/2022 4:10:25 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 5/4/2022 4:10:25 PM 51.1-141 Surr: DNOP 98.1 %Rec 1 5/4/2022 4:10:25 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 5/4/2022 3:36:41 AM 4.7 mg/Kg 1 Surr: BFB 100 37.7-212 %Rec 1 5/4/2022 3:36:41 AM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.024 mg/Kg 5/4/2022 3:36:41 AM 1 Toluene ND 0.047 mg/Kg 1 5/4/2022 3:36:41 AM Ethylbenzene ND 0.047 mg/Kg 1 5/4/2022 3:36:41 AM Xylenes, Total ND 0.095 mg/Kg 1 5/4/2022 3:36:41 AM Surr: 4-Bromofluorobenzene 101 70-130 %Rec 1 5/4/2022 3:36:41 AM

160

60

ma/Ka

20

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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 35 of 70

Analyst: JMT

5/5/2022 6:57:33 PM

Date Reported: 5/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS22-08 2

Project: Stray Cat 8 5 Federal Com 214 H **Collection Date:** 4/27/2022 2:50:00 PM

Lab ID: 2204C92-036 **Matrix:** SOIL **Received Date:** 4/29/2022 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: ED
Diesel Range Organics (DRO)	33	9.8	mg/Kg	1	5/4/2022 4:24:26 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	5/4/2022 4:24:26 PM
Surr: DNOP	102	51.1-141	%Rec	1	5/4/2022 4:24:26 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/4/2022 3:59:58 AM
Surr: BFB	99.7	37.7-212	%Rec	1	5/4/2022 3:59:58 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.023	mg/Kg	1	5/4/2022 3:59:58 AM
Toluene	ND	0.047	mg/Kg	1	5/4/2022 3:59:58 AM
Ethylbenzene	ND	0.047	mg/Kg	1	5/4/2022 3:59:58 AM
Xylenes, Total	ND	0.094	mg/Kg	1	5/4/2022 3:59:58 AM
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	5/4/2022 3:59:58 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	150	60	mg/Kg	20	5/5/2022 7:09:57 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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 36 of 70

Lab ID:

Analytical Report Lab Order 2204C92

Received Date: 4/29/2022 7:10:00 AM

Date Reported: 5/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS22-09 2

Project: Stray Cat 8 5 Federal Com 214 H **Collection Date:** 4/27/2022 3:00:00 PM

Matrix: SOIL

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: ED Diesel Range Organics (DRO) 12 9.8 mg/Kg 1 5/4/2022 4:38:21 PM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 5/4/2022 4:38:21 PM 51.1-141 Surr: DNOP 107 %Rec 1 5/4/2022 4:38:21 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 5/4/2022 6:48:50 PM 4.8 mg/Kg 1 Surr: BFB 114 37.7-212 %Rec 1 5/4/2022 6:48:50 PM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.024 mg/Kg 5/4/2022 6:48:50 PM 1 Toluene ND 0.048 mg/Kg 1 5/4/2022 6:48:50 PM Ethylbenzene ND 0.048 mg/Kg 1 5/4/2022 6:48:50 PM Xylenes, Total ND 0.095 mg/Kg 1 5/4/2022 6:48:50 PM 5/4/2022 6:48:50 PM Surr: 4-Bromofluorobenzene 101 70-130 %Rec 1 **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride 60 5/5/2022 7:22:21 PM 110 ma/Ka 20

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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 37 of 70

Date Reported: 5/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS22-10 2

Project: Stray Cat 8 5 Federal Com 214 H **Collection Date:** 4/27/2022 3:10:00 PM

Lab ID: 2204C92-038 **Matrix:** SOIL **Received Date:** 4/29/2022 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: ED
Diesel Range Organics (DRO)	32	9.9	mg/Kg	1	5/4/2022 4:52:15 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	5/4/2022 4:52:15 PM
Surr: DNOP	110	51.1-141	%Rec	1	5/4/2022 4:52:15 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/4/2022 9:09:38 PM
Surr: BFB	99.4	37.7-212	%Rec	1	5/4/2022 9:09:38 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	5/4/2022 9:09:38 PM
Toluene	ND	0.048	mg/Kg	1	5/4/2022 9:09:38 PM
Ethylbenzene	ND	0.048	mg/Kg	1	5/4/2022 9:09:38 PM
Xylenes, Total	ND	0.097	mg/Kg	1	5/4/2022 9:09:38 PM
Surr: 4-Bromofluorobenzene	100	70-130	%Rec	1	5/4/2022 9:09:38 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	250	60	mg/Kg	20	5/5/2022 7:34:46 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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 38 of 70

Lab ID:

Analytical Report Lab Order 2204C92

Received Date: 4/29/2022 7:10:00 AM

Date Reported: 5/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS22-11 2

Stray Cat 8 5 Federal Com 214 H **Project:** Collection Date: 4/27/2022 3:20:00 PM

Matrix: SOIL

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: ED Diesel Range Organics (DRO) 41 9.1 mg/Kg 1 5/4/2022 5:06:10 PM Motor Oil Range Organics (MRO) ND 45 mg/Kg 1 5/4/2022 5:06:10 PM 51.1-141 Surr: DNOP 98.9 %Rec 1 5/4/2022 5:06:10 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 5/4/2022 10:19:48 PM 4.9 mg/Kg 1 Surr: BFB 97.9 37.7-212 %Rec 1 5/4/2022 10:19:48 PM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.024 mg/Kg 5/4/2022 10:19:48 PM 1 Toluene ND 0.049 mg/Kg 1 5/4/2022 10:19:48 PM Ethylbenzene ND 0.049 mg/Kg 1 5/4/2022 10:19:48 PM Xylenes, Total ND 0.097 mg/Kg 1 5/4/2022 10:19:48 PM 5/4/2022 10:19:48 PM Surr: 4-Bromofluorobenzene 97.9 70-130 %Rec 1 Analyst: JMT **EPA METHOD 300.0: ANIONS** Chloride 290 61 5/5/2022 7:47:10 PM ma/Ka 20

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

Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix interference

Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

Sample pH Not In Range

Page 39 of 70 Reporting Limit RL

Lab ID:

2204C92-040

Analytical Report Lab Order 2204C92

Received Date: 4/29/2022 7:10:00 AM

Date Reported: 5/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS22-12 2

Matrix: SOIL

Stray Cat 8 5 Federal Com 214 H Project: **Collection Date:** 4/27/2022 3:30:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: ED
Diesel Range Organics (DRO)	50	9.2	mg/Kg	1	5/4/2022 5:19:53 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	5/4/2022 5:19:53 PM
Surr: DNOP	100	51.1-141	%Rec	1	5/4/2022 5:19:53 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/4/2022 11:30:15 PM
Surr: BFB	99.2	37.7-212	%Rec	1	5/4/2022 11:30:15 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.023	mg/Kg	1	5/4/2022 11:30:15 PM
Toluene	ND	0.047	mg/Kg	1	5/4/2022 11:30:15 PM
Ethylbenzene	ND	0.047	mg/Kg	1	5/4/2022 11:30:15 PM
Xylenes, Total	ND	0.094	mg/Kg	1	5/4/2022 11:30:15 PM
Surr: 4-Bromofluorobenzene	98.6	70-130	%Rec	1	5/4/2022 11:30:15 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	260	60	mg/Kg	20	5/5/2022 7:59:35 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

Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix interference

Analyte detected in the associated Method Blank

Е Estimated value

J Analyte detected below quantitation limits

Sample pH Not In Range

Page 40 of 70 RL Reporting Limit

Lab ID:

Analytical Report Lab Order 2204C92

Received Date: 4/29/2022 7:10:00 AM

Date Reported: 5/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS22-13 2

Project: Stray Cat 8 5 Federal Com 214 H **Collection Date:** 4/27/2022 3:40:00 PM

Matrix: SOIL

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: ED Diesel Range Organics (DRO) 21 9.3 mg/Kg 1 5/4/2022 5:33:38 PM Motor Oil Range Organics (MRO) ND 46 mg/Kg 1 5/4/2022 5:33:38 PM 51.1-141 Surr: DNOP 102 %Rec 1 5/4/2022 5:33:38 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 5/4/2022 11:53:50 PM 4.6 mg/Kg 1 Surr: BFB 103 37.7-212 %Rec 1 5/4/2022 11:53:50 PM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.023 mg/Kg 5/4/2022 11:53:50 PM 1 Toluene ND 0.046 mg/Kg 1 5/4/2022 11:53:50 PM Ethylbenzene ND 0.046 mg/Kg 1 5/4/2022 11:53:50 PM Xylenes, Total ND 0.093 mg/Kg 1 5/4/2022 11:53:50 PM 5/4/2022 11:53:50 PM Surr: 4-Bromofluorobenzene 101 70-130 %Rec 1 Analyst: JMT **EPA METHOD 300.0: ANIONS** Chloride 310 60 5/5/2022 8:36:48 PM ma/Ka 20

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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 41 of 70

Lab ID:

Analytical Report Lab Order 2204C92

Received Date: 4/29/2022 7:10:00 AM

Date Reported: 5/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS22-14 2

Project: Stray Cat 8 5 Federal Com 214 H **Collection Date:** 4/27/2022 3:50:00 PM

Matrix: SOIL

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) 100 10 mg/Kg 1 5/4/2022 6:09:19 PM Motor Oil Range Organics (MRO) 110 51 mg/Kg 1 5/4/2022 6:09:19 PM Surr: DNOP 97.3 51.1-141 %Rec 1 5/4/2022 6:09:19 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 5/5/2022 12:17:30 AM 4.9 mg/Kg 1 Surr: BFB 94.4 37.7-212 %Rec 1 5/5/2022 12:17:30 AM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.025 mg/Kg 5/5/2022 12:17:30 AM 1 Toluene ND 0.049 mg/Kg 1 5/5/2022 12:17:30 AM Ethylbenzene ND 0.049 mg/Kg 1 5/5/2022 12:17:30 AM Xylenes, Total ND 0.098 mg/Kg 1 5/5/2022 12:17:30 AM Surr: 4-Bromofluorobenzene 95.0 70-130 %Rec 1 5/5/2022 12:17:30 AM Analyst: JMT **EPA METHOD 300.0: ANIONS** Chloride 1400 60 5/5/2022 8:49:12 PM ma/Ka 20

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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 42 of 70

Lab ID:

Analytical Report Lab Order 2204C92

Received Date: 4/29/2022 7:10:00 AM

Date Reported: 5/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS22-15 2

Project: Stray Cat 8 5 Federal Com 214 H **Collection Date:** 4/27/2022 4:00:00 PM

Matrix: SOIL

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) 14 9.6 mg/Kg 1 5/4/2022 6:20:08 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 5/4/2022 6:20:08 PM 51.1-141 Surr: DNOP 103 %Rec 1 5/4/2022 6:20:08 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 5/5/2022 12:41:04 AM 4.8 mg/Kg 1 Surr: BFB 96.8 37.7-212 %Rec 1 5/5/2022 12:41:04 AM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.024 mg/Kg 5/5/2022 12:41:04 AM 1 Toluene ND 0.048 mg/Kg 1 5/5/2022 12:41:04 AM Ethylbenzene ND 0.048 mg/Kg 1 5/5/2022 12:41:04 AM Xylenes, Total ND 0.096 mg/Kg 1 5/5/2022 12:41:04 AM Surr: 4-Bromofluorobenzene 94.4 70-130 %Rec 1 5/5/2022 12:41:04 AM Analyst: JMT **EPA METHOD 300.0: ANIONS** Chloride 97 60 5/5/2022 9:01:36 PM ma/Ka 20

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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 43 of 70

Surr: 4-Bromofluorobenzene

EPA METHOD 300.0: ANIONS

Chloride

Lab ID:

Analytical Report Lab Order 2204C92

Received Date: 4/29/2022 7:10:00 AM

Date Reported: 5/10/2022

5/5/2022 1:04:43 AM

5/5/2022 9:14:00 PM

Analyst: JMT

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS22-16 2

Project: Stray Cat 8 5 Federal Com 214 H **Collection Date:** 4/27/2022 4:10:00 PM

Matrix: SOIL

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) ND 9.7 mg/Kg 1 5/4/2022 6:30:58 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 5/4/2022 6:30:58 PM 51.1-141 Surr: DNOP 103 %Rec 1 5/4/2022 6:30:58 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 5/5/2022 1:04:43 AM 4.7 mg/Kg 1 Surr: BFB 102 37.7-212 %Rec 1 5/5/2022 1:04:43 AM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.023 mg/Kg 5/5/2022 1:04:43 AM 1 Toluene ND 0.047 mg/Kg 1 5/5/2022 1:04:43 AM Ethylbenzene ND 0.047 mg/Kg 1 5/5/2022 1:04:43 AM Xylenes, Total ND 0.094 mg/Kg 1 5/5/2022 1:04:43 AM

97.6

350

70-130

60

%Rec

ma/Ka

1

20

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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 44 of 70

Lab ID:

Analytical Report Lab Order 2204C92

Received Date: 4/29/2022 7:10:00 AM

Date Reported: 5/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS22-17 2

Matrix: SOIL

Project: Stray Cat 8 5 Federal Com 214 H **Collection Date:** 4/27/2022 4:20:00 PM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: ED Diesel Range Organics (DRO) ND 9.8 mg/Kg 1 5/4/2022 5:47:15 PM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 5/4/2022 5:47:15 PM 51.1-141 Surr: DNOP 104 %Rec 1 5/4/2022 5:47:15 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 5/5/2022 1:28:16 AM 4.7 mg/Kg 1 Surr: BFB 100 37.7-212 %Rec 1 5/5/2022 1:28:16 AM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.023 mg/Kg 5/5/2022 1:28:16 AM 1 Toluene ND 0.047 mg/Kg 1 5/5/2022 1:28:16 AM Ethylbenzene ND 0.047 mg/Kg 1 5/5/2022 1:28:16 AM Xylenes, Total ND 0.094 mg/Kg 1 5/5/2022 1:28:16 AM Surr: 4-Bromofluorobenzene 99.6 70-130 %Rec 1 5/5/2022 1:28:16 AM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride 1400 60 5/5/2022 9:26:24 PM ma/Ka 20

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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 45 of 70

Analytical Report Lab Order 2204C92

Date Reported: 5/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS22-18 2

Project: Stray Cat 8 5 Federal Com 214 H **Collection Date:** 4/27/2022 4:30:00 PM

Lab ID: 2204C92-046 **Matrix:** SOIL **Received Date:** 4/29/2022 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: SB
Diesel Range Organics (DRO)	16	9.5	mg/Kg	1	5/4/2022 6:41:46 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/4/2022 6:41:46 PM
Surr: DNOP	96.8	51.1-141	%Rec	1	5/4/2022 6:41:46 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/5/2022 1:51:52 AM
Surr: BFB	97.5	37.7-212	%Rec	1	5/5/2022 1:51:52 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	5/5/2022 1:51:52 AM
Toluene	ND	0.047	mg/Kg	1	5/5/2022 1:51:52 AM
Ethylbenzene	ND	0.047	mg/Kg	1	5/5/2022 1:51:52 AM
Xylenes, Total	ND	0.095	mg/Kg	1	5/5/2022 1:51:52 AM
Surr: 4-Bromofluorobenzene	97.1	70-130	%Rec	1	5/5/2022 1:51:52 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	1100	60	mg/Kg	20	5/5/2022 10:03:37 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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 46 of 70

Lab ID:

Analytical Report Lab Order 2204C92

Received Date: 4/29/2022 7:10:00 AM

Date Reported: 5/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS22-19 2

Project: Stray Cat 8 5 Federal Com 214 H **Collection Date:** 4/27/2022 4:40:00 PM

Matrix: SOIL

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) 29 9.4 mg/Kg 1 5/4/2022 6:52:34 PM Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 5/4/2022 6:52:34 PM 51.1-141 Surr: DNOP 96.6 %Rec 1 5/4/2022 6:52:34 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 5/5/2022 2:15:29 AM 4.7 mg/Kg 1 Surr: BFB 97.0 37.7-212 %Rec 1 5/5/2022 2:15:29 AM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.024 mg/Kg 5/5/2022 2:15:29 AM 1 Toluene ND 0.047 mg/Kg 1 5/5/2022 2:15:29 AM Ethylbenzene ND 0.047 mg/Kg 1 5/5/2022 2:15:29 AM Xylenes, Total ND 0.095 mg/Kg 1 5/5/2022 2:15:29 AM Surr: 4-Bromofluorobenzene 96.6 70-130 %Rec 1 5/5/2022 2:15:29 AM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride 850 60 5/5/2022 10:16:01 PM ma/Ka 20

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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 47 of 70

Lab ID:

Analytical Report Lab Order 2204C92

Received Date: 4/29/2022 7:10:00 AM

Date Reported: 5/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS22-20 2

Stray Cat 8 5 Federal Com 214 H **Project:** Collection Date: 4/27/2022 4:50:00 PM

Matrix: SOIL

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) 82 9.9 mg/Kg 1 5/4/2022 7:03:21 PM Motor Oil Range Organics (MRO) 52 49 mg/Kg 1 5/4/2022 7:03:21 PM Surr: DNOP 104 51.1-141 %Rec 1 5/4/2022 7:03:21 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 5/5/2022 3:02:38 AM 4.7 mg/Kg 1 Surr: BFB 97.0 37.7-212 %Rec 1 5/5/2022 3:02:38 AM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.023 mg/Kg 5/5/2022 3:02:38 AM 1 Toluene ND 0.047 mg/Kg 1 5/5/2022 3:02:38 AM Ethylbenzene ND 0.047 mg/Kg 1 5/5/2022 3:02:38 AM Xylenes, Total ND 0.093 mg/Kg 1 5/5/2022 3:02:38 AM Surr: 4-Bromofluorobenzene 96.2 70-130 %Rec 1 5/5/2022 3:02:38 AM Analyst: JMT **EPA METHOD 300.0: ANIONS** Chloride 260 60 5/5/2022 10:28:25 PM ma/Ka 20

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

Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix interference

Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

Sample pH Not In Range

Page 48 of 70 Reporting Limit RL

EPA METHOD 300.0: ANIONS

Chloride

Lab ID:

Analytical ReportLab Order **2204C92**

Received Date: 4/29/2022 7:10:00 AM

Date Reported: 5/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS22-21 2

Project: Stray Cat 8 5 Federal Com 214 H **Collection Date:** 4/27/2022 5:00:00 PM

Matrix: SOIL

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) 42 10 mg/Kg 1 5/4/2022 7:14:08 PM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 5/4/2022 7:14:08 PM 51.1-141 Surr: DNOP 103 %Rec 1 5/4/2022 7:14:08 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 5 5/5/2022 3:26:05 AM 25 mg/Kg 5 Surr: BFB 98.2 37.7-212 %Rec 5/5/2022 3:26:05 AM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.12 mg/Kg 5 5/5/2022 3:26:05 AM Toluene 5 ND 0.25 mg/Kg 5/5/2022 3:26:05 AM Ethylbenzene ND 0.25 mg/Kg 5 5/5/2022 3:26:05 AM Xylenes, Total ND 0.49 mg/Kg 5 5/5/2022 3:26:05 AM %Rec 5 Surr: 4-Bromofluorobenzene 99.4 70-130 5/5/2022 3:26:05 AM

180

60

ma/Ka

20

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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 49 of 70

Analyst: JMT

5/5/2022 11:05:38 PM

Lab ID:

Chloride

Analytical Report Lab Order 2204C92

Received Date: 4/29/2022 7:10:00 AM

Date Reported: 5/10/2022

5/5/2022 11:18:02 PM

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS22-22 2

Project: Stray Cat 8 5 Federal Com 214 H **Collection Date:** 4/27/2022 5:10:00 PM

Matrix: SOIL

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) 31 10 mg/Kg 1 5/4/2022 7:24:52 PM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 5/4/2022 7:24:52 PM Surr: DNOP 95.9 51.1-141 %Rec 1 5/4/2022 7:24:52 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 5 5/5/2022 3:49:24 AM 25 mg/Kg 5 Surr: BFB 101 37.7-212 %Rec 5/5/2022 3:49:24 AM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.12 mg/Kg 5 5/5/2022 3:49:24 AM Toluene 5 ND 0.25 mg/Kg 5/5/2022 3:49:24 AM Ethylbenzene ND 0.25 mg/Kg 5 5/5/2022 3:49:24 AM Xylenes, Total ND 0.49 mg/Kg 5 5/5/2022 3:49:24 AM 5 Surr: 4-Bromofluorobenzene 101 70-130 %Rec 5/5/2022 3:49:24 AM Analyst: JMT **EPA METHOD 300.0: ANIONS**

140

60

ma/Ka

20

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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 50 of 70

Analytical Report Lab Order 2204C92

Date Reported: 5/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS22-23 2

Project: Stray Cat 8 5 Federal Com 214 H **Collection Date:** 4/27/2022 5:20:00 PM

Lab ID: 2204C92-051 **Matrix:** SOIL **Received Date:** 4/29/2022 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	5/4/2022 7:35:41 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/4/2022 7:35:41 PM
Surr: DNOP	96.3	51.1-141	%Rec	1	5/4/2022 7:35:41 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	24	mg/Kg	5	5/5/2022 4:12:59 AM
Surr: BFB	101	37.7-212	%Rec	5	5/5/2022 4:12:59 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.12	mg/Kg	5	5/5/2022 4:12:59 AM
Toluene	ND	0.24	mg/Kg	5	5/5/2022 4:12:59 AM
Ethylbenzene	ND	0.24	mg/Kg	5	5/5/2022 4:12:59 AM
Xylenes, Total	ND	0.48	mg/Kg	5	5/5/2022 4:12:59 AM
Surr: 4-Bromofluorobenzene	99.0	70-130	%Rec	5	5/5/2022 4:12:59 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	320	60	mg/Kg	20	5/5/2022 7:31:14 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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 51 of 70

Lab ID:

Chloride

Analytical Report Lab Order 2204C92

Received Date: 4/29/2022 7:10:00 AM

Date Reported: 5/10/2022

5/5/2022 8:08:17 PM

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS22-24 2

Project: Stray Cat 8 5 Federal Com 214 H **Collection Date:** 4/27/2022 5:30:00 PM

Matrix: SOIL

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) 65 9.6 mg/Kg 1 5/4/2022 7:46:28 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 5/4/2022 7:46:28 PM Surr: DNOP 97.1 51.1-141 %Rec 1 5/4/2022 7:46:28 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 5 5/5/2022 4:36:32 AM 24 mg/Kg 5 Surr: BFB 100 37.7-212 %Rec 5/5/2022 4:36:32 AM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.12 mg/Kg 5 5/5/2022 4:36:32 AM Toluene 5 ND 0.24 mg/Kg 5/5/2022 4:36:32 AM Ethylbenzene ND 0.24 mg/Kg 5 5/5/2022 4:36:32 AM Xylenes, Total ND 0.48 mg/Kg 5 5/5/2022 4:36:32 AM 5 Surr: 4-Bromofluorobenzene 97.8 70-130 %Rec 5/5/2022 4:36:32 AM Analyst: JMT **EPA METHOD 300.0: ANIONS**

250

60

ma/Ka

20

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 52 of 70

Analytical ReportLab Order **2204C92**

Date Reported: 5/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS22-25 2

 Project:
 Stray Cat 8 5 Federal Com 214 H
 Collection Date: 4/27/2022 5:40:00 PM

 Lab ID:
 2204C92-053
 Matrix: SOIL
 Received Date: 4/29/2022 7:10:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) 150 9.6 mg/Kg 1 5/4/2022 7:57:14 PM Motor Oil Range Organics (MRO) 72 48 mg/Kg 1 5/4/2022 7:57:14 PM Surr: DNOP 120 51.1-141 %Rec 1 5/4/2022 7:57:14 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 5 5/5/2022 5:00:03 AM 24 mg/Kg 5 Surr: BFB 95.0 37.7-212 %Rec 5/5/2022 5:00:03 AM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 5/5/2022 5:00:03 AM 0.12 mg/Kg 5 Toluene 5 ND 0.24 mg/Kg 5/5/2022 5:00:03 AM Ethylbenzene ND 0.24 mg/Kg 5 5/5/2022 5:00:03 AM Xylenes, Total ND 0.48 mg/Kg 5 5/5/2022 5:00:03 AM %Rec 5 5/5/2022 5:00:03 AM Surr: 4-Bromofluorobenzene 96.4 70-130 Analyst: JMT **EPA METHOD 300.0: ANIONS** Chloride 420 60 5/5/2022 9:10:00 PM ma/Ka 20

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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 53 of 70

EPA METHOD 300.0: ANIONS

Chloride

Lab ID:

Analytical Report Lab Order 2204C92

Received Date: 4/29/2022 7:10:00 AM

Date Reported: 5/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS22-26 2

Project: Stray Cat 8 5 Federal Com 214 H **Collection Date:** 4/27/2022 5:50:00 PM

Matrix: SOIL

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) 71 9.5 mg/Kg 1 5/4/2022 8:08:00 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 5/4/2022 8:08:00 PM 51.1-141 Surr: DNOP 80.5 %Rec 1 5/4/2022 8:08:00 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 5 5/4/2022 11:41:00 PM 24 mg/Kg 5 Surr: BFB 102 37.7-212 %Rec 5/4/2022 11:41:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: BRM Benzene ND 0.12 mg/Kg 5 5/4/2022 11:41:00 PM Toluene 5 ND 0.24 mg/Kg 5/4/2022 11:41:00 PM Ethylbenzene ND 0.24 mg/Kg 5 5/4/2022 11:41:00 PM Xylenes, Total ND 0.48 mg/Kg 5 5/4/2022 11:41:00 PM 5 5/4/2022 11:41:00 PM Surr: 4-Bromofluorobenzene 83.6 70-130 %Rec

190

59

ma/Ka

20

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

QL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 54 of 70

Analyst: JMT

5/5/2022 9:22:21 PM

Lab ID:

Xylenes, Total

Chloride

Surr: 4-Bromofluorobenzene

EPA METHOD 300.0: ANIONS

Analytical Report Lab Order 2204C92

Received Date: 4/29/2022 7:10:00 AM

Date Reported: 5/10/2022

5/5/2022 10:59:27 AM 5/5/2022 10:59:27 AM

5/5/2022 9:34:41 PM

Analyst: JMT

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS22-27 2

Project: Stray Cat 8 5 Federal Com 214 H **Collection Date:** 4/27/2022 6:00:00 PM

Matrix: SOIL

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) 62 9.6 mg/Kg 1 5/4/2022 8:18:43 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 5/4/2022 8:18:43 PM Surr: DNOP 88.6 51.1-141 %Rec 1 5/4/2022 8:18:43 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 5/5/2022 10:59:27 AM 4.8 mg/Kg 1 Surr: BFB 105 37.7-212 %Rec 1 5/5/2022 10:59:27 AM **EPA METHOD 8021B: VOLATILES** Analyst: NSB 5/5/2022 10:59:27 AM Benzene ND 0.024 mg/Kg 1 Toluene ND 0.048 mg/Kg 1 5/5/2022 10:59:27 AM Ethylbenzene ND 0.048 mg/Kg 1 5/5/2022 10:59:27 AM

ND

103

400

0.097

70-130

60

mg/Kg

%Rec

ma/Ka

1

1

20

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 55 of 70

Lab ID:

Analytical Report Lab Order 2204C92

Received Date: 4/29/2022 7:10:00 AM

Date Reported: 5/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS22-28 2

Project: Stray Cat 8 5 Federal Com 214 H Collection Date: 4/27/2022 6:10:00 PM

Matrix: SOIL

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) 57 9.7 mg/Kg 1 5/4/2022 8:29:25 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 5/4/2022 8:29:25 PM Surr: DNOP 108 51.1-141 %Rec 1 5/4/2022 8:29:25 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 5/5/2022 11:22:58 AM 4.8 mg/Kg 1 Surr: BFB 102 37.7-212 %Rec 1 5/5/2022 11:22:58 AM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.024 mg/Kg 5/5/2022 11:22:58 AM 1 Toluene ND 0.048 mg/Kg 1 5/5/2022 11:22:58 AM Ethylbenzene ND 0.048 mg/Kg 1 5/5/2022 11:22:58 AM Xylenes, Total ND 0.097 mg/Kg 1 5/5/2022 11:22:58 AM Surr: 4-Bromofluorobenzene 102 70-130 %Rec 1 5/5/2022 11:22:58 AM Analyst: JMT **EPA METHOD 300.0: ANIONS** Chloride 440 60 5/5/2022 9:47:02 PM ma/Ka 20

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

Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix interference

Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

Sample pH Not In Range

Page 56 of 70 Reporting Limit RL

Analytical Report Lab Order 2204C92

Date Reported: 5/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS22-29 2

Project: Stray Cat 8 5 Federal Com 214 H **Collection Date:** 4/27/2022 6:20:00 PM

Lab ID: 2204C92-057 **Matrix:** SOIL **Received Date:** 4/29/2022 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: SB
Diesel Range Organics (DRO)	18	10	mg/Kg	1	5/4/2022 8:40:08 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/4/2022 8:40:08 PM
Surr: DNOP	87.5	51.1-141	%Rec	1	5/4/2022 8:40:08 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/5/2022 11:46:28 AM
Surr: BFB	100	37.7-212	%Rec	1	5/5/2022 11:46:28 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	5/5/2022 11:46:28 AM
Toluene	ND	0.049	mg/Kg	1	5/5/2022 11:46:28 AM
Ethylbenzene	ND	0.049	mg/Kg	1	5/5/2022 11:46:28 AM
Xylenes, Total	ND	0.097	mg/Kg	1	5/5/2022 11:46:28 AM
Surr: 4-Bromofluorobenzene	99.1	70-130	%Rec	1	5/5/2022 11:46:28 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	2500	150	mg/Kg	50	5/6/2022 1:50:05 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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 57 of 70

Hall Environmental Analysis Laboratory, Inc.

2204C92 10-May-22

WO#:

Client: Devon Energy

Project: Stray Cat 8 5 Federal Com 214 H

Sample ID: MB-67296 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 67296 RunNo: 87790

Prep Date: 5/5/2022 Analysis Date: 5/5/2022 SeqNo: 3109904 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-67296 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 67296 RunNo: 87790

Prep Date: 5/5/2022 Analysis Date: 5/5/2022 SeqNo: 3109905 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 92.9 90 110

Sample ID: MB-67289 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 67289 RunNo: 87790

Prep Date: 5/5/2022 Analysis Date: 5/5/2022 SeqNo: 3109977 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-67289 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 67289 RunNo: 87790

Prep Date: 5/5/2022 Analysis Date: 5/5/2022 SeqNo: 3109978 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 93.5 90 110

Sample ID: MB-67282 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **67282** RunNo: **87792**

Prep Date: 5/5/2022 Analysis Date: 5/5/2022 SeqNo: 3110148 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit

Chloride ND 1.5

Sample ID: LCS-67282 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 67282 RunNo: 87792

Prep Date: 5/5/2022 Analysis Date: 5/5/2022 SeqNo: 3110149 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 95.3 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 range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 58 of 70

Qual

Hall Environmental Analysis Laboratory, Inc.

WO#: **2204C92**

10-May-22

Client: Devon Energy

Project: Stray Cat 8 5 Federal Com 214 H

Sample ID: MB-67291 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 67291 RunNo: 87792

Prep Date: 5/5/2022 Analysis Date: 5/5/2022 SeqNo: 3110178 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-67291 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 67291 RunNo: 87792

Prep Date: 5/5/2022 Analysis Date: 5/5/2022 SeqNo: 3110179 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 95.8 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 range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 59 of 70

Hall Environmental Analysis Laboratory, Inc.

3.6

2204C92 10-May-22

WO#:

Client: Devon Energy

Project: Stray Cat 8 5 Federal Com 214 H

Sample ID: 2204C92-007AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics WS22-07 0-2 Client ID: Batch ID: 67241 RunNo: 87710 Prep Date: 5/3/2022 Analysis Date: 5/5/2022 SeqNo: 3107843 Units: mq/Kq SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result PQL LowLimit Qual Diesel Range Organics (DRO) 41.33 77 9.4 46.90 75.1 36.1 154

 Diesel Range Organics (DRO)
 77
 9.4
 46.90
 41.33
 75.1
 36.1
 154

 Surr: DNOP
 4.8
 4.690
 103
 51.1
 141

4.726

Sample ID: 2204C92-007AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: WS22-07 0-2 Batch ID: 67241 RunNo: 87710 Prep Date: 5/3/2022 Analysis Date: 5/5/2022 SeqNo: 3107844 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 41.33 70 9.5 47.26 60.8 36.1 154 8.91 33.9

77.0

51.1

141

0

0

Sample ID: LCS-67238 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 67238 RunNo: 87710 Prep Date: 5/3/2022 Analysis Date: 5/4/2022 SeqNo: 3107875 Units: mg/Kg Result SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte PQL LowLimit Qual Diesel Range Organics (DRO) 55 10 50.00 0 110 68.9 135 Surr: DNOP 4.3 5.000 85.7 51.1 141

Sample ID: LCS-67241 TestCode: EPA Method 8015M/D: Diesel Range Organics SampType: LCS Client ID: LCSS Batch ID: 67241 RunNo: 87710 Prep Date: 5/3/2022 Analysis Date: 5/4/2022 SeqNo: 3107876 Units: mg/Kg SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Result PQL LowLimit Qual Diesel Range Organics (DRO) 49 10 50.00 98.7 68.9 135 Surr: DNOP 3.9 5.000 77.2 51.1 141

TestCode: EPA Method 8015M/D: Diesel Range Organics Sample ID: MB-67238 SampType: MBLK Client ID: PBS Batch ID: 67238 RunNo: 87710 Prep Date: 5/3/2022 Analysis Date: 5/4/2022 SeqNo: 3107877 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 9.3 10.00 93.4 51.1 141

Qualifiers:

Surr: DNOP

- 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 range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 60 of 70

Hall Environmental Analysis Laboratory, Inc.

2204C92

WO#:

10-May-22

Client: Devon Energy

Project: Stray Cat 8 5 Federal Com 214 H

Sample ID: MB-67241	SampType: M	BLK	Tes	tCode: EPA	Method	8015M/D: Die	esel Range	Organics	
Client ID: PBS	Batch ID: 67	' 241	F	tunNo: 877	10				
Prep Date: 5/3/2022	Analysis Date: 5	/4/2022	S	SeqNo: 310	7878	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC L	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND 10								
Motor Oil Range Organics (MRO)	ND 50								
Surr: DNOP	8.3	10.00		83.4	51.1	141			
Sample ID: MB-67233	SampType: M	BLK	Tes	tCode: EPA	Method	8015M/D: Die	esel Range	Organics	
Client ID: PBS	Batch ID: 67	233	F	RunNo: 87728					
Prep Date: 5/3/2022	Analysis Date: 5	/4/2022	S	SeqNo: 310	8477	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC L	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND 10								
Motor Oil Range Organics (MRO)	ND 50								
Surr: DNOP	13	10.00		126	51.1	141			
Sample ID: LCS-67233	SampType: L (cs	Tes	tCode: EPA	Method	8015M/D: Die	esel Range	Organics	
Client ID: LCSS	Batch ID: 67	233	F	tunNo: 877	28				
Prep Date: 5/3/2022	Analysis Date: 5	/4/2022	S	SeqNo: 310	8478	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC L	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46 10	50.00	0	91.9	68.9	135			
Surr: DNOP	5.1	5.000		102	51.1	141			
Sample ID: LCS-67248	SampType: L (cs	Tes	tCode: EPA	Method	8015M/D: Die	esel Range	Organics	
Client ID: LCSS	Batch ID: 67	248	F	tunNo: 877	62				
Prep Date: 5/4/2022	Analysis Date: 5	/5/2022	8	SeqNo: 310	9549	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC L	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53 10	50.00	0	106	68.9	135			

Qualifiers:

Analyte

Surr: DNOP

Surr: DNOP

Sample ID: LCS-67260

Prep Date: 5/4/2022

Client ID: LCSS

- 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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference

3.8

Result

3.7

SampType: LCS

Batch ID: 67260

Analysis Date: 5/5/2022

5.000

5.000

Analyte detected in the associated Method Blank

76.6

RunNo: 87762

73.5

SeqNo: 3109550

LowLimit

51.1

TestCode: EPA Method 8015M/D: Diesel Range Organics

Units: %Rec HighLimit

141

%RPD

Estimated value

SPK value SPK Ref Val %REC

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

Page 61 of 70

RPDLimit

Qual

Hall Environmental Analysis Laboratory, Inc.

2204C92 10-May-22

WO#:

Client: Devon Energy

Project: Stray Cat 8 5 Federal Com 214 H

Sample ID: MB-67248 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: **PBS** Batch ID: **67248** RunNo: **87762**

Prep Date: 5/4/2022 Analysis Date: 5/5/2022 SeqNo: 3109553 Units: mq/Kq

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 8.3 10.00 83.4 51.1 141

Sample ID: MB-67260 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 67260 RunNo: 87762

Prep Date: 5/4/2022 Analysis Date: 5/5/2022 SeqNo: 3109554 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 8.4 10.00 84.4 51.1 141

Sample ID: 2204C92-012AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: W\$22-12 0-2 Batch ID: 67248 RunNo: 87807

Prep Date: 5/4/2022 Analysis Date: 5/6/2022 SeqNo: 3111883 Units: mg/Kg

SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result PQL LowLimit Qual Diesel Range Organics (DRO) 120 9.8 49.02 104.6 24.0 36.1 154 S

Surr: DNOP 5.2 4.902 106 51.1 141

Sample ID: 2204C92-012AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: WS22-12 0-2 Batch ID: 67248 RunNo: 87807

Prep Date: 5/4/2022 Analysis Date: 5/6/2022 SeqNo: 3111886 Units: mg/Kg

SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Result PQL LowLimit Qual Diesel Range Organics (DRO) 120 48.26 104.6 35.4 36.1 4.49 33.9 S 9.7 154 Surr: DNOP 5.2 4.826 108 51.1 141 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 range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 62 of 70

Hall Environmental Analysis Laboratory, Inc.

2204C92 10-May-22

WO#:

Client: Devon Energy

Project: Stray Cat 8 5 Federal Com 214 H

Sample ID: mb-67198 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: **PBS** Batch ID: **67198** RunNo: **87675**

Prep Date: 5/2/2022 Analysis Date: 5/3/2022 SeqNo: 3105102 Units: mq/Kq

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 106 37.7 212

Sample ID: Ics-67198 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 67198 RunNo: 87675

Prep Date: 5/2/2022 Analysis Date: 5/3/2022 SeqNo: 3105103 Units: mg/Kg

HighLimit Analyte Result PQL SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 28 5.0 25.00 O 112 72.3 137 Surr: BFB S 2300 1000 229 37.7 212

Sample ID: mb-67228 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 67228 RunNo: 87724

Prep Date: 5/3/2022 Analysis Date: 5/4/2022 SeqNo: 3107409 Units: mg/Kg

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 37.7 212

Sample ID: Ics-67228 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 67228 RunNo: 87724

Prep Date: 5/3/2022 Analysis Date: 5/4/2022 SeqNo: 3107410 Units: mg/Kg

SPK value SPK Ref Val %REC %RPD **RPDLimit** Result PQL LowLimit HighLimit Qual Gasoline Range Organics (GRO) 26 5.0 0 102 25.00 72.3 137 Surr: BFB 2200 1000 224 37.7 212 S

Sample ID: 2204c92-038ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: **BS22-10 2** Batch ID: **67228** RunNo: **87724**

Prep Date: 5/3/2022 Analysis Date: 5/4/2022 SeqNo: 3107412 Units: mg/Kg

Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 25 4.8 0 70 24.11 104 130 Surr: BFB 2100 964.3 218 37.7 212 S

Sample ID: 2204c92-038amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: **BS22-10 2** Batch ID: **67228** RunNo: **87724**

Prep Date: 5/3/2022 Analysis Date: 5/4/2022 SeqNo: 3107413 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD 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 range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 63 of 70

Hall Environmental Analysis Laboratory, Inc.

WO#: **2204C92**

10-May-22

Client: Devon Energy

Project: Stray Cat 8 5 Federal Com 214 H

Sample ID: 2204c92-038amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: **BS22-10 2** Batch ID: **67228** RunNo: **87724**

Prep Date: 5/3/2022 Analysis Date: 5/4/2022 SeqNo: 3107413 Units: mg/Kg

·	•				•		•	•		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.8	24.15	0	102	70	130	1.09	20	
Surr: BFB	2100		966.2		220	37.7	212	0	0	S

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 range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 64 of 70

Hall Environmental Analysis Laboratory, Inc.

WO#: 2204C92 10-May-22

Client: Devon Energy

Project: Stray Cat 8 5 Federal Com 214 H

Sample ID: mb-67198 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: 67198 RunNo: 87675 Prep Date: 5/2/2022 Analysis Date: 5/3/2022 SeqNo: 3105148 Units: mq/Kq SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte PQL LowLimit HighLimit Qual Benzene ND 0.025 ND 0.050 0.050 ND

Toluene Ethylbenzene Xylenes, Total ND 0.10

Surr: 4-Bromofluorobenzene 1.1 1.000 107 70 130

Sample ID: LCS-67198 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: 67198 RunNo: 87675 Analysis Date: 5/3/2022 SeqNo: 3105149 Prep Date: 5/2/2022 Units: mg/Kg Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 1.000 0.93 0.025 n 93.4 80 120 Benzene Toluene 0.98 0.050 1.000 0 97.5 80 120 0 98.4 80 0.98 0.050 1.000 120 Ethylbenzene 0 98.1 Xylenes, Total 2.9 0.10 3.000 80 120 Surr: 4-Bromofluorobenzene 1.1 1.000 108 70 130

SampType: MBLK TestCode: EPA Method 8021B: Volatiles Sample ID: mb-67228 Client ID: PBS Batch ID: 67228 RunNo: 87724 Prep Date: 5/3/2022 Analysis Date: 5/4/2022 SeqNo: 3107448 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual ND 0.025 Benzene

Toluene ND 0.050 ND 0.050 Ethylbenzene Xylenes, Total ND 0.10 Surr: 4-Bromofluorobenzene 1.0

1.000 TestCode: EPA Method 8021B: Volatiles Sample ID: LCS-67228 SampType: LCS

Client ID: LCSS Batch ID: 67228 RunNo: 87724

Prep Date: 5/3/2022 Analysis Date: 5/4/2022 SeqNo: 3107449 Units: mg/Kg SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual 0.90 0.025 1.000 0 90.1 80 120 Benzene Toluene 0.94 0.050 1.000 0 93.9 80 120 Ethylbenzene 0.94 0.050 1.000 0 94 1 80 120 Xylenes, Total 2.8 0.10 3.000 0 94.2 80 120 Surr: 4-Bromofluorobenzene 1.000 102 70 130 1.0

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded Н

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix interference

Analyte detected in the associated Method Blank

102

130

70

Estimated value

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 65 of 70

Hall Environmental Analysis Laboratory, Inc.

WO#: **2204C92**

10-May-22

Client: Devon Energy

Project: Stray Cat 8 5 Federal Com 214 H

Sample ID: 2204c92-039ams	Samp	tampType: MS TestCode: EPA Method 8021B: Volatiles								
Client ID: BS22-11 2	BS22-11 2 Batch ID: 67228 RunNo: 87724									
Prep Date: 5/3/2022	Analysis [Date: 5/	4/2022	S	Units: mg/K	(g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.024	0.9699	0	92.9	68.8	120			
Toluene	0.95	0.048	0.9699	0	98.2	73.6	124			
Ethylbenzene	0.98	0.048	0.9699	0	101	72.7	129			
Xylenes, Total	2.9	0.097	2.910	0	99.5	75.7	126			
Surr: 4-Bromofluorobenzene	1.0		0.9699		103	70	130			

Sample ID: 2204c92-039ams	d Samp∃	Гуре: М\$	SD	TestCode: EPA Method 8021B: Volatiles						
Client ID: BS22-11 2	Batc	h ID: 67 :	228	F	RunNo: 8					
Prep Date: 5/3/2022	Analysis [Date: 5/	4/2022	\$	SeqNo: 3	107453	Units: mg/K	ίg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.024	0.9737	0	90.1	68.8	120	2.75	20	
Toluene	0.94	0.049	0.9737	0	97.0	73.6	124	0.913	20	
Ethylbenzene	0.96	0.049	0.9737	0	98.9	72.7	129	1.29	20	
Xylenes, Total	2.9	0.097	2.921	0	99.7	75.7	126	0.546	20	
Surr: 4-Bromofluorobenzene	0.99		0.9737		102	70	130	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
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 66 of 70

Hall Environmental Analysis Laboratory, Inc.

WO#: **2204C92** *10-May-22*

Client: Devon Energy

Project: Stray Cat 8 5 Federal Com 214 H

Sample ID: Ics-67176	SampT	ype: LC	S4	Tes	TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: BatchQC	Batcl	n ID: 67 1	176	F	7749						
Prep Date: 4/29/2022	Analysis D	Date: 5/4	4/2022	8	SeqNo: 3107736 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.95	0.025	1.000	0	95.1	80	120				
Toluene	0.84	0.050	1.000	0	83.8	80	120				
Ethylbenzene	0.91	0.050	1.000	0	90.7	80	120				
Xylenes, Total	2.7	0.10	3.000	0	90.0	80	120				
Surr: 1,2-Dichloroethane-d4	0.47		0.5000		94.9	70	130				
Surr: 4-Bromofluorobenzene	0.47		0.5000		94.6	70	130				
Surr: Dibromofluoromethane	0.59		0.5000		117	70	130				
Surr: Toluene-d8	0.45		0.5000		89.5	70	130				

Sample ID: mb-67176	SampT	уре: МЕ	BLK	TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: PBS	Batcl	n ID: 67 ′	176	F	RunNo: 87749					
Prep Date: 4/29/2022	Analysis D	Date: 5/-	4/2022	9	SeqNo: 3107737 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: 1,2-Dichloroethane-d4	0.47		0.5000		94.2	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		96.0	70	130			
Surr: Dibromofluoromethane	0.59		0.5000		117	70	130			
Surr: Toluene-d8	0.46		0.5000		91.5	70	130			

Sample ID: 2204c92-008ams	Sampl	уре: М S	64	Tes	PA Method	8260B: Volatiles Short List				
Client ID: WS22-08 0-2	Batc	h ID: 67 1	178	F	RunNo: 8					
Prep Date: 4/30/2022	Analysis [Date: 5/4	4/2022	SeqNo: 3107881 Units: mg/Kg				g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	0.9862	0	111	63.5	137			
Toluene	0.98	0.049	0.9862	0.01068	98.7	77.6	127			
Ethylbenzene	1.1	0.049	0.9862	0	111	77.9	129			
Xylenes, Total	3.1	0.099	2.959	0	105	76.8	127			
Surr: 1,2-Dichloroethane-d4	0.50		0.4931		101	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.4931		98.4	70	130			
Surr: Dibromofluoromethane	0.52		0.4931		106	70	130			
Surr: Toluene-d8	0.49		0.4931		99.5	70	130			

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 range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 67 of 70

Hall Environmental Analysis Laboratory, Inc.

WO#: **2204C92**

10-May-22

Client: Devon Energy

Project: Stray Cat 8 5 Federal Com 214 H

Sample ID: 2204c92-008amsd	I Samp1	Гуре: М S	D4	Tes	TestCode: EPA Method 8260B: Volatiles Short List					
Client ID: WS22-08 0-2	Batcl	h ID: 67 1	178	F	RunNo: 87750					
Prep Date: 4/30/2022	Analysis D	Date: 5/4	4/2022	9	SeqNo: 3107882 Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.025	0.9814	0	101	63.5	137	10.2	20	
Toluene	1.1	0.049	0.9814	0.01068	111	77.6	127	11.2	20	
Ethylbenzene	1.2	0.049	0.9814	0	119	77.9	129	6.26	20	
Xylenes, Total	3.4	0.098	2.944	0	114	76.8	127	7.84	20	
Surr: 1,2-Dichloroethane-d4	0.53		0.4907		108	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.47		0.4907		94.9	70	130	0	0	
Surr: Dibromofluoromethane	0.53		0.4907		108	70	130	0	0	
Surr: Toluene-d8	0.55		0.4907		111	70	130	0	0	

Sample ID: Ics-67178	Samp1	Гуре: LC	S4	Tes	TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: BatchQC	Batc	h ID: 67	178	F	RunNo: 87750						
Prep Date: 4/30/2022	Analysis [Date: 5/	4/2022	SeqNo: 3107901 Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	1.1	0.025	1.000	0	105	80	120				
Toluene	1.1	0.050	1.000	0	108	80	120				
Ethylbenzene	1.1	0.050	1.000	0	110	80	120				
Xylenes, Total	3.2	0.10	3.000	0	106	80	120				
Surr: 1,2-Dichloroethane-d4	0.53		0.5000		106	70	130				
Surr: 4-Bromofluorobenzene	0.48		0.5000		95.9	70	130				
Surr: Dibromofluoromethane	0.52		0.5000		105	70	130				
Surr: Toluene-d8	0.56		0.5000		112	70	130				

Sample ID: mb-67178	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Client ID: PBS	Batch	n ID: 67 1	178	F	RunNo: 8	7750				
Prep Date: 4/30/2022	Analysis D	ate: 5/	4/2022	8	SeqNo: 3	107902	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: 1,2-Dichloroethane-d4	0.49		0.5000		97.2	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.5000		97.2	70	130			
Surr: Dibromofluoromethane	0.50		0.5000		101	70	130			
Surr: Toluene-d8	0.56		0.5000		112	70	130			

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 68 of 70

Hall Environmental Analysis Laboratory, Inc.

: 2204C92 10-May-22

WO#:

Client: Devon Energy

Project: Stray Cat 8 5 Federal Com 214 H

Sample ID: Ics-67176 SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: LCSS Batch ID: 67176 RunNo: 87749

Prep Date: 4/29/2022 Analysis Date: 5/4/2022 SeqNo: 3107762 Units: mg/Kg

SPK value SPK Ref Val %RPD **RPDLimit** Analyte Result PQL %REC LowLimit HighLimit Qual Gasoline Range Organics (GRO) 24 5.0 25.00 Λ 95.7 70 130 Surr: BFB 530 500.0 106 70 130

Sample ID: mb-67176 SampType: MBLK TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: PBS Batch ID: 67176 RunNo: 87749

Prep Date: 4/29/2022 Analysis Date: 5/4/2022 SeqNo: 3107763 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO) ND 5.0

109

70

130

Sample ID: 2204c92-007ams SampType: MS TestCode: EPA Method 8015D Mod: Gasoline Range

500.0

Client ID: WS22-07 0-2 Batch ID: 67178 RunNo: 87750

540

Prep Date: 4/30/2022 Analysis Date: 5/4/2022 SeqNo: 3107793 Units: mg/Kg

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual Gasoline Range Organics (GRO) 27 4.9 24.32 0 110 61.1 127 Surr: BFB 70 500 486.4 103 130

Sample ID: 2204c92-007amsd SampType: MSD TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: W\$22-07 0-2 Batch ID: 67178 RunNo: 87750

Prep Date: 4/30/2022 Analysis Date: 5/4/2022 SeqNo: 3107794 Units: mg/Kg

SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Result PQL LowLimit Qual Gasoline Range Organics (GRO) 27 5.0 0 2.08 20 24 78 111 61 1 127 Surr: BFB 470 495.5 95.0 70 130 0 0

Sample ID: Ics-67178 SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: LCSS Batch ID: 67178 RunNo: 87750

Prep Date: 4/30/2022 Analysis Date: 5/4/2022 SeqNo: 3107823 Units: mg/Kg

Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 27 5.0 0 110 70 25.00 130 Surr: BFB 530 500.0 106 70 130

Sample ID: mb-67178 SampType: MBLK TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: **PBS** Batch ID: **67178** RunNo: **87750**

Prep Date: 4/30/2022 Analysis Date: 5/4/2022 SeqNo: 3107825 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Qualifiers:

Surr: BFB

- 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 range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 69 of 70

Hall Environmental Analysis Laboratory, Inc.

2204C92 10-May-22

WO#:

Client: Devon Energy

Project: Stray Cat 8 5 Federal Com 214 H

Sample ID: mb-67178 SampType: MBLK TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: PBS Batch ID: 67178 RunNo: 87750

Prep Date: 4/30/2022 Analysis Date: 5/4/2022 SeqNo: 3107825 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

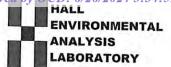
Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 520 500.0 104 70 130

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
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 70 of 70



Hall Environmental Analysis Laboratory 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:	Devon E	nergy	Wo	rk Order Nu	ımber: 220	04C92		Rcpti	No: 1
Received By:	Juan R	ojas	4/29/2	2022 7:10:0	0 AM		Hearing	9	
Completed By:		asarrubias		2022 9:17:5			1		
Reviewed By:	KPa	4-6	29 - 22						
Chain of Cu	stody								
1. Is Chain of 0	Custody con	nplete?			Yes	V	No [Not Present	i
2. How was the	e sample de	livered?				ırier		- TISKY YOSOM E	
Log In									
3. Was an atter	mpt made to	cool the san	nples?		Yes	V	No 🗆] NA □	
4. Were all sam	ples receive	ed at a tempe	rature of >0° C	to 6.0°C	Yes	V	No [NA 🗆	
5. Sample(s) in	proper con	tainer(s)?			Yes	V	No 🗆	D	
6. Sufficient san	nple volume	for indicated	test(s)?		Yes	V	No 🗆		
7. Are samples				red?	Yes	V	No 🗆		
8. Was preserva			A CONTRACT		Yes		No 🗹	NA 🗆	
9. Received at le	east 1 vial w	rith headspace	e <1/4" for AO	VOA2	Yes		No 🗆		
10. Were any sar				. 0,,,	Yes		No 🗹	NA 🗹	
						A	NO E	# of preserved bottles checked	
11. Does paperwo (Note discrepa	ork match be ancies on ch	ottle labels? nain of custod	(v)		Yes	V	No 🗌	for pH:	
2. Are matrices of					Yes	V	No 🗌	(<2 d	or >12 unless noted)
3. Is it clear wha						V	No 🗆		
4. Were all holding (If no, notify co	ng times ab	le to be met?			Yes		No 🗆	Checked by:	mulalo:
pecial Handl			,						
15. Was client no			with this order	?	Yes		No 🗌	NA 🗹	
Person	Notified:			Date					
By Who				Via:	eMa	il 🗆 F	Phone Fax	In Person	
Regardi									
	structions:	1							
6. Additional ren	marks:								4
7. Cooler Inform	mation								
Cooler No	Temp ⁰C	Condition	Seal Intact	Seal No	Seal Da	te	Signed By	1	
1	1.6	Good	Yes		2.46.23.47.2		J.g., 50 Dj		
2	0.8	Good	Yes						

Released to	7
Imaging:	N
6/2	
/28/20	P
24	eı
10:1	ei Q
9:19	
AM	A
	Da
	4

Client:	Chain-of-Custody Record ient: Duon Enurgy ailing Address:				Project	tandard ot Nam y Ca	d 🖟 Ru	5 Day sh Federal Com 214H		49	901 F	4	N ww	w.ha	YS Illen	SI:	S L	AE	301	1EN RAT		
Phone	#:				Project 226		0189				el. 50			975	Je	Fax	505	-345-	-4107			
-	or Fax#:				Proied	t Mana	ager:			<u> </u>			-	,		ysis	Rec	uest			7	
QA/QC □ Star	Package ndard		□ Level 4 (Full V	'alidation)	W. C. B. B. S. S. S.		Pepp	in	TMB's (8021)	O / MRO	PCB's		8270SIMS		PO ₄ , SO ₄			/Absent				
□ NEL		☐ Az Co ☐ Othe	ompliance r		On Ice	of Coolers: 2				O / DR	s/8082 I	504.1)	or 8270		NO ₂ ,		(A)	Present				
□ EDE	O (Type)				Coole	r Temp	(including CF):	1.6 0 = 1,6 (°C)	BTEX) MTBE	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082	EDB (Method 5	PAHs by 8310	RCRA 8 Metals	CI) F, Br, NO3,	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)				
Date		Matrix	Sample Name			Container Preservative HEAL No. Type and # Type 22040 9.2					808	ED	PA	RCI	(0)	826	827	Tota				L y
4/27	9:00	501	M299-01	771	147	7	100	001	V	V					1					N.		
1	9:10		M293-03	0-2				200	1	1					1							
	9:20		WS22-03	0-2				003					1									
	9:30		M232-04	0-2				004							7					TIT		
	9:40		W522-05	0-2				COZ							T		. 7					
	9:50		MS22-06	0-2				006									61					
	10:00		W522-07	0-2				007-														
	10:10		W522-08	0-2				800														
	10:90		WS22-09	0-2				009														7
	10:30		WS22-10	0-2				010							1							
	10:40		MS22-11	0-2				011							+				+		H	+
(10:50		WS22-12	0.5	017-										\dagger					+		
ate:		Relinquish	ed by:	_	Received	ill	Via:	Date Time	Ren	narks	C C	. (η.	Py	bb;	+	ri no	10	epor	+		
18/20	1900	cier			//	2/1	Counter	de la secon	D	rei	x	انط	171	De	you	~ : ^	271	1)°	o if	29.2		

Released to	C
Imaging:	M
: 6/28/26	_ Pl
124 10:1	er Q
.9	
19 AA	A
	Da 4
	4

Client:			ustody Re	cora	-	, a ouric	Time: 5	Day				ŀ	IA	LL	E	NV	/IF	SOI	NM	ENT	AI
Ollotti.	Den	on t	nergy			tandard		1												ATO	F T. T.
			0.		Projec	ct Nam	e: 0.5	Foderal	1									tal.co			7121
Mailing	Address	:			7777	ay (d	M 0 - C	Federal com 214H		49	001 H								// 8710	10	
					Projec	ct #:	2000				el. 50							-345-		3	
Phone	#:				20	IE -	००।४१									-	-	uest	1107	60	9,0
email o	r Fax#:					ct Mana			1	6					SO4			t)	hi I		
	Package:				M	ionia	a Pepp	olo	(8021)	/ MRO)	PCB's		NS NS					pser		4 /	
□ Star			☐ Level 4 (Full	l Validation)	14-			7.80	S	DRO /			IIS0		, PO ₄ ,			nt/A			
Accred □ NEL	itation:		ompliance		_		1JP		TMB	_	3082	4.1)	827		NO ₂ ,			ese.		1	
	(Type)	☐ Other		_	Service Service Co. Co.	On Ice: Ves No			<u></u>	SRO	les/8	1 50	0 or	als	NO ₃		10A	ı (Pı			
					Cooler Temp(including CF): 1.6-0=1.6 (°C)			5D((sticic	thoc	831	Met	ž	(A)	(Semi-VOA)	Coliform (Present/Absent)					
		ji o j						0.8-020.8	12	801	Pe	(Me	s by	A 8	, Br,	2	(Se	Col		111	
Date	Time	Matrix	Sample Nam	ne	Conta Type a		Preservative Type	HEAL No. 2204092		TPH:8015D(GRO	8081 Pesticides/8082	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	9,	8260 (VOA)	8270	Total			
4/27	11:00	-	WS22-13	0-5	4	20	ice	OB	1	1					/		- W				
1	11:10	1	W522-14	0-2	1			014	i	1	-	- 1			1						i ei
	11,20		W522-15	0-2	12			CK.							1						
	11:36		W522-16	0-2				016		П		-			1						
	11:40		WS22-17	0-2				017	T												
	11:50		W522-18	0-2				019		\Box					1						
	12:00		W522-19	0-2				019							1						
	19:10		W522-20	0-2 *	-			010		П											
	12:20		W522-21	0-2				่อน	П						1					1	
	12:30		W522-22	0-2 X		41		022							1						
	12:40	16	W5J2 - J3	0-2				023		1					#						
	12:50		WS22-24	0-2 ×				624	1					1	1						-
ate:	Time:	Relinquishe	ed by:	1	Receive	d by:	Via:	Date Time	Ren	nark	s:	, .	_	^	0	1	7.				
	Time	D. II.	10	>	4.Cu	uu	up	4/28/2 1030	4	4_	6/0	1		1.1	14	pi	1	2:1			
Date:	2	Relinquishe	ed by:	1	Received by: Via: Date Time Received by: Via: Via: Date Time					. ~		ner.	11	7. /	Tra	Ho	5	811	50	4. 29.2	Z
12/22	900	acu	wy		//	2/	ccredited laboratorie	1119122 7,10	1)	re	t	bi	11-	0	o W o	SV					,

Client:	Dec	ion E	engy	cord	Project #:	d Time: 5 rd	Day h Federal Com 214H				A	www.	AL w.ha NE · 975	llenv - Alb	ouqu Fax	men erqu 505	tal.c	BOI om M 87 ⁻ -4107	RA 109	ITA TOF	
email o	or Fax#: Package:		☐ Level 4 (Full	Validation)	Project Mar	nager: ca Peppi	Λ	TMB's (8021)	/ DRO / MRO))82 PCB's	1)	SZ70SIMS		NO ₂ , PO ₄ , SO ₄	y 515	Keq	(Present/Absent)				3:34:52 PM
□ NEL □ EDE	(Type)	□ Othe	Sample Name	<u> </u>	On Ice: # of Coolers	Yes ip(including cr): 1. Preservative	0.8-0=16 (°C) 0.8-0=0.8 HEAL No. 2764692	. / BE /	15D(GRO	8081 Pesticides/8082	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals		8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Pre				
4/27	1:00	Soil	W522-25	0-2	402	ice	025	V	V					V					ĮŲ.		
1	1:10		W522-26	0-5,			026	1	1					1					1		
	1:20		M299-91	0.5			027														
	1:30		m23-38	0-51			020														
	1:40		BS22-01	9,			029														
	1:50		BS22-02	2			030														
	2:00		B520-03	5.			031									-					
	5:10		3522-04):			032						1								
	2:20		3522-05	7,			033									-					
	2:30	-1/1	B522-06	9.			034														
	2:40		8522-07	9,			035														
1	2:20		8522-08	9,			036							1							
Date:	Time:	Relinquish Relinquish	100		Received by:	Via: Via:	Date Time 1030 Date Time 12992710 es. This serves as notice of this	De De	ire	ct V E	ne	ra						O pp			Page 319 of 3

	Chain	-of-C	ustody Record	Turn-Arour	nd Time: 5	Day	1													eceiv
Client:	Oen	on E	nergy	☐ Standa	1	•			E								NM 3OF		SAME TO SERVE	
			31	Project Na	me:	r 11				-								CAI	O.	000
Mailing	Address	S:		Stray	Catos	Federal Con 214H		40	01.6	lovele						ital.co				9: 6/
				Project #:	1 7		1		el. 50								M 871			26/2
Phone	#:			95E-	00189		-		ei. 50	J3-34	+0-3	_		11.		uest	-4107			024
email c	r Fax#:			Project Mar	nager:		_	0					SO ₄							3:34
QA/QC	Package:			Mari	ca Pepp) O	(8021	MR	PCB's		MS		, S,			oser				34:52
□ Star	ndard		☐ Level 4 (Full Validation)			, ·	3,8 (8	DRO / MRO)			8270SIMS		PO ₄ ,			nt/A				PM
	itation:		ompliance	Sampler: [TME		3082	1.1)	827		NO ₂ ,		_	ese				
□ NEL	(Type)	□ Othe	er	On Ice: # of Cooler:	ÆYes	□ No	E/	SRO	EDB (Method 504.1) PAHs by 8310 or 827(C) F, Br, NO ₃ , NO ₂ , 8260 (VOA)			ا (P								
						6-0-1.6 (°C)	MTE	5D((sticic	thoc	831	Met	ž	(A)	mi-	iforn				
				Container		6.1-0-0.8	À	:801	Pe	ξ.	s by	A 8	B	S	Se (Se	00	(life			
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2264692	BTEX)/ MTBE	TPH:8015D(GRO /	808	EDB	PAHs by 8310	RCR	(2)	8260 (VOA)	3270	Total Coliform (Present/Absent))			
4/27	3:00	5011	B522-09 2'	400	1'ce	037	V	/				_		,						
1	3:10		B237-10 3,			038	1	1					1							
	3:20		B527-11 2'			035						11								
F	3:30		B259-15 J.			040											T			
	3:40		B522-13 2'			041														
	3:50		BS22-14 2.			042									7.0					
	4'.00		B522-15 2'			043										M				
	4:10		3522-16 2'			044							W.							
	4:20		BS22-17 2;			045														
	4:30		B572-18 2'	1		046		II												
	41.40		B522-19 2'		1	047		T												
	4:50		13273-50 9,			07/3							1							
Date:	Time:	Relinquish	ned by:	Received by:	Via:		Rem	narks	S:	_	3/		00	0		- (P
Date;	late; Time: Relinquished by:			Received by:	Via:	78 27 1030 Date Time				(1 .	1 (y	Pin	_			age
12/12	d I					ubab- Tim	0		٨			\cap				p.'n				Page 320 of
		samples sul	bmitted to Hall Environmental may be subc	contracted to other	accredited laboratorie	This serves as notice of this	DOSS!	~e	Anys	Di.	[]	LU/	W	N clearly	v note	tod as t	the cast	died =		of 35

-	
~	
0	
~	
2	
S	
0	
2	
-	
9	
-	
3	
2	
00	
=	
Property.	
90	
• •	
9	
17	
So	
13	
6	
12	
4	
10	
9	
-	
9	
\cdot	
-	
9	
K	
-	
-	
-	

Client	g Address	on E	istody Re	COIU	Project #:	d ∀Rusi	Day Federal Con 2141	- 		HALL ENVIRONME ANALYSIS LABORA www.hallenvironmental.com 901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request						RA			
QA/QC	ail or Fax#: QC Package: Standard					ager: a Pepp	10	TMB's (8021)	/ DRO / MRO)	2 PCB's		8270SIMS		NO ₂ , PO ₄ , SO ₄					
□ NE			201 S. W. S.	<u> </u>	Sampler: On Ice: # of Coolers Cooler Temp Container Type and #	∠ Yes	0.8-0-0.8	STEX) MTBE / TN	15D(GRO	8081 Pesticides/8082	92	5		CLIF, Br, NO3, NO	8270 (Semi-WOA)	Total Coliform (Present/Absent)			
4/27	5:00	5011	BS22-21	2 *	402	ice	049	V	V										
	5:16 5:20 5:36 5:40 5:50 6:00 6:10		B522-24 B522-24 B522-25 B522-25 B522-27 B522-27 B522-29	2 × 2 × 2 × 2 × 2 × 2 × 2 × 2 × 2 × 2 ×			050 652 053 053 054 055 055												
Date:	Time:	Relinquish	1/2	<u> </u>	Received by:	Via:	Date Time US02 Date Time	Rer	narks	s: 4	Colout	:: 	~ :nt	1.P.	epp	1 5	soil.	12	o o



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

OrderNo.: 2202151

February 10, 2022

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

FAX:

RE: Stray Cat 8 5 Fed Com 214H

Dear Brandon Schafer:

Hall Environmental Analysis Laboratory received 11 sample(s) on 2/3/2022 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 don't hesitate to contact HEAL for any additional information or clarifications.

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

Sincerely,

Andy Freeman

Laboratory Manager

andy

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report Lab Order 2202151

Date Reported: 2/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-01 0.0

 Project:
 Stray Cat 8 5 Fed Com 214H
 Collection Date: 2/1/2022 12:00:00 PM

 Lab ID:
 2202151-001
 Matrix: SOIL
 Received Date: 2/3/2022 1:27:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	2/7/2022 1:43:23 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	2/7/2022 1:43:23 PM
Surr: DNOP	108	51.1-141	%Rec	1	2/7/2022 1:43:23 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	2/5/2022 1:53:00 PM
Surr: BFB	98.0	70-130	%Rec	1	2/5/2022 1:53:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	2/5/2022 1:53:00 PM
Toluene	ND	0.048	mg/Kg	1	2/5/2022 1:53:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	2/5/2022 1:53:00 PM
Xylenes, Total	ND	0.096	mg/Kg	1	2/5/2022 1:53:00 PM
Surr: 4-Bromofluorobenzene	91.7	70-130	%Rec	1	2/5/2022 1:53:00 PM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	ND	60	mg/Kg	20	2/7/2022 1:07:37 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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 1 of 15

Analytical Report Lab Order 2202151

Date Reported: 2/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-02 0.0

 Project:
 Stray Cat 8 5 Fed Com 214H
 Collection Date: 2/1/2022 12:10:00 PM

 Lab ID:
 2202151-002
 Matrix: SOIL
 Received Date: 2/3/2022 1:27:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: SB
Diesel Range Organics (DRO)	31	9.8	mg/Kg	1	2/7/2022 1:53:56 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	2/7/2022 1:53:56 PM
Surr: DNOP	107	51.1-141	%Rec	1	2/7/2022 1:53:56 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	2/5/2022 2:51:00 PM
Surr: BFB	95.3	70-130	%Rec	1	2/5/2022 2:51:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	2/5/2022 2:51:00 PM
Toluene	ND	0.048	mg/Kg	1	2/5/2022 2:51:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	2/5/2022 2:51:00 PM
Xylenes, Total	ND	0.097	mg/Kg	1	2/5/2022 2:51:00 PM
Surr: 4-Bromofluorobenzene	90.0	70-130	%Rec	1	2/5/2022 2:51:00 PM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	110	60	mg/Kg	20	2/7/2022 1:20:01 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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 15

Analytical Report

Lab Order **2202151**Date Reported: **2/10/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-03 0.0

 Project:
 Stray Cat 8 5 Fed Com 214H
 Collection Date: 2/1/2022 12:20:00 PM

 Lab ID:
 2202151-003
 Matrix: SOIL
 Received Date: 2/3/2022 1:27:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: SB
Diesel Range Organics (DRO)	89	9.9	mg/Kg	1	2/7/2022 2:04:30 PM
Motor Oil Range Organics (MRO)	110	49	mg/Kg	1	2/7/2022 2:04:30 PM
Surr: DNOP	133	51.1-141	%Rec	1	2/7/2022 2:04:30 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	2/5/2022 3:50:00 PM
Surr: BFB	97.0	70-130	%Rec	1	2/5/2022 3:50:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	2/5/2022 3:50:00 PM
Toluene	ND	0.049	mg/Kg	1	2/5/2022 3:50:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	2/5/2022 3:50:00 PM
Xylenes, Total	ND	0.098	mg/Kg	1	2/5/2022 3:50:00 PM
Surr: 4-Bromofluorobenzene	87.3	70-130	%Rec	1	2/5/2022 3:50:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	320	61	mg/Kg	20	2/8/2022 10:32:33 AM

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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 3 of 15

Analytical Report

Lab Order **2202151**Date Reported: **2/10/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-04 0.0

 Project:
 Stray Cat 8 5 Fed Com 214H
 Collection Date: 2/1/2022 12:30:00 PM

 Lab ID:
 2202151-004
 Matrix: SOIL
 Received Date: 2/3/2022 1:27:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	2/7/2022 2:15:04 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	2/7/2022 2:15:04 PM
Surr: DNOP	106	51.1-141	%Rec	1	2/7/2022 2:15:04 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	2/5/2022 4:10:00 PM
Surr: BFB	99.2	70-130	%Rec	1	2/5/2022 4:10:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	2/5/2022 4:10:00 PM
Toluene	ND	0.047	mg/Kg	1	2/5/2022 4:10:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	2/5/2022 4:10:00 PM
Xylenes, Total	ND	0.095	mg/Kg	1	2/5/2022 4:10:00 PM
Surr: 4-Bromofluorobenzene	91.4	70-130	%Rec	1	2/5/2022 4:10:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	2/8/2022 10:44:58 AM

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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 15

Date Reported: 2/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-05 0.0

 Project:
 Stray Cat 8 5 Fed Com 214H
 Collection Date: 2/1/2022 1:00:00 PM

 Lab ID:
 2202151-005
 Matrix: SOIL
 Received Date: 2/3/2022 1:27:00 PM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) mg/Kg 2800 99 10 2/7/2022 5:31:51 PM Motor Oil Range Organics (MRO) 1200 490 mg/Kg 10 2/7/2022 5:31:51 PM 51.1-141 Surr: DNOP 0 S %Rec 10 2/7/2022 5:31:51 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 5 2/5/2022 4:29:00 PM 24 mg/Kg 5 Surr: BFB 121 70-130 %Rec 2/5/2022 4:29:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.12 mg/Kg 5 2/5/2022 4:29:00 PM Toluene 5 ND 0.24 mg/Kg 2/5/2022 4:29:00 PM Ethylbenzene ND 0.24 mg/Kg 5 2/5/2022 4:29:00 PM Xylenes, Total ND 0.48 mg/Kg 5 2/5/2022 4:29:00 PM 5 Surr: 4-Bromofluorobenzene 100 70-130 %Rec 2/5/2022 4:29:00 PM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride 2200 60 2/8/2022 10:57:23 AM ma/Ka 20

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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 15

Date Reported: 2/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-05 1.0

 Project:
 Stray Cat 8 5 Fed Com 214H
 Collection Date: 2/1/2022 1:10:00 PM

 Lab ID:
 2202151-006
 Matrix: SOIL
 Received Date: 2/3/2022 1:27:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: SB
Diesel Range Organics (DRO)	270	9.6	mg/Kg	1	2/7/2022 6:14:14 PM
Motor Oil Range Organics (MRO)	100	48	mg/Kg	1	2/7/2022 6:14:14 PM
Surr: DNOP	88.8	51.1-141	%Rec	1	2/7/2022 6:14:14 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	24	mg/Kg	5	2/5/2022 4:49:00 PM
Surr: BFB	110	70-130	%Rec	5	2/5/2022 4:49:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.12	mg/Kg	5	2/5/2022 4:49:00 PM
Toluene	ND	0.24	mg/Kg	5	2/5/2022 4:49:00 PM
Ethylbenzene	ND	0.24	mg/Kg	5	2/5/2022 4:49:00 PM
Xylenes, Total	ND	0.47	mg/Kg	5	2/5/2022 4:49:00 PM
Surr: 4-Bromofluorobenzene	95.8	70-130	%Rec	5	2/5/2022 4:49:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	850	60	mg/Kg	20	2/8/2022 11:09:47 AM

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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 6 of 15

Date Reported: 2/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-05 2.0

 Project:
 Stray Cat 8 5 Fed Com 214H
 Collection Date: 2/1/2022 1:30:00 PM

 Lab ID:
 2202151-007
 Matrix: SOIL
 Received Date: 2/3/2022 1:27:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	2/7/2022 2:57:31 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	2/7/2022 2:57:31 PM
Surr: DNOP	92.1	51.1-141	%Rec	1	2/7/2022 2:57:31 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	2/5/2022 5:09:00 PM
Surr: BFB	100	70-130	%Rec	1	2/5/2022 5:09:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	2/5/2022 5:09:00 PM
Toluene	ND	0.050	mg/Kg	1	2/5/2022 5:09:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	2/5/2022 5:09:00 PM
Xylenes, Total	ND	0.10	mg/Kg	1	2/5/2022 5:09:00 PM
Surr: 4-Bromofluorobenzene	93.7	70-130	%Rec	1	2/5/2022 5:09:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	2/8/2022 11:22:12 AM

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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 7 of 15

Date Reported: 2/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-06 0.0

 Project:
 Stray Cat 8 5 Fed Com 214H
 Collection Date: 2/1/2022 2:00:00 PM

 Lab ID:
 2202151-008
 Matrix: SOIL
 Received Date: 2/3/2022 1:27:00 PM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS					Analyst: SB
Diesel Range Organics (DRO)	4900	190		mg/Kg	20	2/7/2022 5:42:34 PM
Motor Oil Range Organics (MRO)	1300	950		mg/Kg	20	2/7/2022 5:42:34 PM
Surr: DNOP	0	51.1-141	S	%Rec	20	2/7/2022 5:42:34 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	140	25		mg/Kg	5	2/5/2022 5:28:00 PM
Surr: BFB	197	70-130	S	%Rec	5	2/5/2022 5:28:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	2/5/2022 5:28:00 PM
Toluene	ND	0.25		mg/Kg	5	2/5/2022 5:28:00 PM
Ethylbenzene	0.45	0.25		mg/Kg	5	2/5/2022 5:28:00 PM
Xylenes, Total	3.7	0.50		mg/Kg	5	2/5/2022 5:28:00 PM
Surr: 4-Bromofluorobenzene	145	70-130	S	%Rec	5	2/5/2022 5:28:00 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	8600	300		mg/Kg	100	2/10/2022 4:42:57 AM

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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 8 of 15

Date Reported: 2/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-06 2.0

 Project:
 Stray Cat 8 5 Fed Com 214H
 Collection Date: 2/1/2022 2:10:00 PM

 Lab ID:
 2202151-009
 Matrix: SOIL
 Received Date: 2/3/2022 1:27:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	2/7/2022 3:29:22 PM
Motor Oil Range Organics (MRO)	68	48	mg/Kg	1	2/7/2022 3:29:22 PM
Surr: DNOP	111	51.1-141	%Rec	1	2/7/2022 3:29:22 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	2/5/2022 5:48:00 PM
Surr: BFB	99.0	70-130	%Rec	1	2/5/2022 5:48:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.023	mg/Kg	1	2/5/2022 5:48:00 PM
Toluene	ND	0.047	mg/Kg	1	2/5/2022 5:48:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	2/5/2022 5:48:00 PM
Xylenes, Total	ND	0.094	mg/Kg	1	2/5/2022 5:48:00 PM
Surr: 4-Bromofluorobenzene	87.3	70-130	%Rec	1	2/5/2022 5:48:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	2/8/2022 11:47:03 AM

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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 9 of 15

Date Reported: 2/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-07 0.0

 Project:
 Stray Cat 8 5 Fed Com 214H
 Collection Date: 2/1/2022 2:30:00 PM

 Lab ID:
 2202151-010
 Matrix: SOIL
 Received Date: 2/3/2022 1:27:00 PM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst: SB
Diesel Range Organics (DRO)	6100	97		mg/Kg	10	2/7/2022 4:27:12 PM
Motor Oil Range Organics (MRO)	2400	480		mg/Kg	10	2/7/2022 4:27:12 PM
Surr: DNOP	0	51.1-141	S	%Rec	10	2/7/2022 4:27:12 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	65	24		mg/Kg	5	2/5/2022 6:08:00 PM
Surr: BFB	150	70-130	S	%Rec	5	2/5/2022 6:08:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	2/5/2022 6:08:00 PM
Toluene	ND	0.24		mg/Kg	5	2/5/2022 6:08:00 PM
Ethylbenzene	ND	0.24		mg/Kg	5	2/5/2022 6:08:00 PM
Xylenes, Total	0.51	0.48		mg/Kg	5	2/5/2022 6:08:00 PM
Surr: 4-Bromofluorobenzene	117	70-130		%Rec	5	2/5/2022 6:08:00 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	13000	600		mg/Kg	200	2/10/2022 4:55:21 AM

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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 10 of 15

Date Reported: 2/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-07 2.0

 Project:
 Stray Cat 8 5 Fed Com 214H
 Collection Date: 2/1/2022 2:50:00 PM

 Lab ID:
 2202151-011
 Matrix: SOIL
 Received Date: 2/3/2022 1:27:00 PM

Analyses	s Result RL Qual Units		al Units	DF	Date Analyzed		
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: SB		
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	2/7/2022 4:38:00 PM		
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	2/7/2022 4:38:00 PM		
Surr: DNOP	100	51.1-141	%Rec	1	2/7/2022 4:38:00 PM		
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB		
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	2/5/2022 7:06:00 PM		
Surr: BFB	92.6	70-130	%Rec	1	2/5/2022 7:06:00 PM		
EPA METHOD 8021B: VOLATILES					Analyst: NSB		
Benzene	ND	0.024	mg/Kg	1	2/5/2022 7:06:00 PM		
Toluene	ND	0.047	mg/Kg	1	2/5/2022 7:06:00 PM		
Ethylbenzene	ND	0.047	mg/Kg	1	2/5/2022 7:06:00 PM		
Xylenes, Total	ND	0.094	mg/Kg	1	2/5/2022 7:06:00 PM		
Surr: 4-Bromofluorobenzene	85.4	70-130	%Rec	1	2/5/2022 7:06:00 PM		
EPA METHOD 300.0: ANIONS					Analyst: JMT		
Chloride	ND	59	mg/Kg	20	2/8/2022 12:36:41 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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 11 of 15

Hall Environmental Analysis Laboratory, Inc.

10-Feb-22

2202151

WO#:

Client: Vertex Resources Services, Inc.

Project: Stray Cat 8 5 Fed Com 214H

Sample ID: MB-65398 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 65398 RunNo: 85658

Prep Date: 2/7/2022 Analysis Date: 2/7/2022 SeqNo: 3015610 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-65398 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 65398 RunNo: 85658

Prep Date: 2/7/2022 Analysis Date: 2/7/2022 SeqNo: 3015611 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 94.5 90 110

Sample ID: MB-65421 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 65421 RunNo: 85698

Prep Date: 2/8/2022 Analysis Date: 2/8/2022 SeqNo: 3017133 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-65421 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 65421 RunNo: 85698

Prep Date: 2/8/2022 Analysis Date: 2/8/2022 SeqNo: 3017134 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 95.8 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 range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 12 of 15

Hall Environmental Analysis Laboratory, Inc.

WO#: **2202151**

10-Feb-22

Client: Vertex Resources Services, Inc.

Project: Stray Cat 8 5 Fed Com 214H

Sample ID: LCS-65386 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 65386 RunNo: 85650 Prep Date: 2/4/2022 Analysis Date: 2/7/2022 SeqNo: 3015345 Units: mg/Kg PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual Diesel Range Organics (DRO) 10 0 45 50.00 91.0 68.9 135 Surr: DNOP 4.4 5.000 87.4 51.1 141

Sample ID: MB-65386 TestCode: EPA Method 8015M/D: Diesel Range Organics SampType: MBLK Client ID: PBS Batch ID: 65386 RunNo: 85650 Prep Date: 2/4/2022 Analysis Date: 2/7/2022 SeqNo: 3015346 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) ND 10

 Diesel Range Organics (DRO)
 ND
 10

 Motor Oil Range Organics (MRO)
 ND
 50

 Surr: DNOP
 10
 10.00
 102
 51.1
 141

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 range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 13 of 15

Hall Environmental Analysis Laboratory, Inc.

WO#: **2202151**

10-Feb-22

Client: Vertex Resources Services, Inc.

Project: Stray Cat 8 5 Fed Com 214H

Sample ID: mb-65380 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 65380 RunNo: 85645

Prep Date: 2/4/2022 Analysis Date: 2/5/2022 SeqNo: 3015107 Units: mq/Kq

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

 Surr: BFB
 990
 1000
 99.3
 70
 130

Sample ID: Ics-65380 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 65380 RunNo: 85645

Prep Date: 2/4/2022 Analysis Date: 2/5/2022 SeqNo: 3015108 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 5.0 25.00 O 115 78.6 131

Surr: BFB 1300 1000 127 70 130

Sample ID: 2202151-001ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: BH22-01 0.0 Batch ID: 65380 RunNo: 85645

Prep Date: 2/4/2022 Analysis Date: 2/5/2022 SeqNo: 3015110 Units: mg/Kg

Result SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte PQL LowLimit Qual Gasoline Range Organics (GRO) 29 4.9 24.34 0 117 70 130 Surr: BFB 1100 973.7 110 70 130

Sample ID: 2202151-001amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: BH22-01 0.0 Batch ID: 65380 RunNo: 85645

Prep Date: 2/4/2022 Analysis Date: 2/5/2022 SeqNo: 3015111 Units: mg/Kg

Result SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** PQL LowLimit Qual Gasoline Range Organics (GRO) 26 4.9 24.27 107 70 9.55 130 20 Surr: BFB 1100 970.9 111 70 130 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 range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 14 of 15

Hall Environmental Analysis Laboratory, Inc.

2.9

0.92

3.0

0.87

0.86

0.10

0.097

WO#: **2202151**

10-Feb-22

Client: Vertex Resources Services, Inc.

Project: Stray Cat 8 5 Fed Com 214H

Sample ID: mb-65380 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 65380 RunNo: 85645

Prep Date: 2/4/2022 Analysis Date: 2/5/2022 SeqNo: 3015134 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

 Toluene
 ND
 0.050

 Ethylbenzene
 ND
 0.050

 Xylenes, Total
 ND
 0.10

 Surr: 4-Bromofluorobenzene
 0.93
 1.000
 92.7
 70
 130

3.000

1.000

2.921

0.9737

0.9434

Sample ID: Ics-65380 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: 65380 RunNo: 85645 Analysis Date: 2/5/2022 SeqNo: 3015135 Prep Date: 2/4/2022 Units: mg/Kg Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 1.000 1.0 0.025 n 100 80 120 Benzene Toluene 0.98 0.050 1.000 0 98.0 80 120 0 99.1 80 0.99 0.050 1.000 120 Ethylbenzene

0

97.8

92.3

104

89.1

80

70

80

70

70

120 130

120

130

130

0

Sample ID: 2202151-002ams SampType: MS TestCode: EPA Method 8021B: Volatiles Client ID: BH22-02 0.0 Batch ID: 65380 RunNo: 85645 Prep Date: 2/4/2022 Analysis Date: 2/5/2022 SeqNo: 3015138 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 107 80 1.0 0.024 0.9737 120 Benzene O Toluene 0.049 0.9737 0 105 80 120 1.0 0 105 80 120 Ethylbenzene 1.0 0.049 0.9737

0

TestCode: EPA Method 8021B: Volatiles Sample ID: 2202151-002amsd SampType: MSD Client ID: BH22-02 0.0 Batch ID: 65380 RunNo: 85645 Prep Date: 2/4/2022 Analysis Date: 2/5/2022 SeqNo: 3015139 Units: mg/Kg SPK value SPK Ref Val %REC **RPDLimit** Analyte Result PQL LowLimit HighLimit %RPD Qual 0.97 0.024 0.9434 0 102 80 120 7.75 20 Benzene Toluene 0.97 0.047 0.9434 0 103 80 120 5.35 20 Ethylbenzene 0.96 0.047 0.9434 0 102 80 120 6 47 20 Xylenes, Total 2.8 0.094 2.830 0 100 80 120 6.72 20

Qualifiers:

Xylenes, Total

Xylenes, Total

Surr: 4-Bromofluorobenzene

Surr: 4-Bromofluorobenzene

* Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

Surr: 4-Bromofluorobenzene

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

90.8

E Estimated value

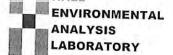
J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 15 of 15

0



Hall Environmental Analysis Laboratory 4901 Hawkins NE

Sample Log-In Check List Albuquerque. NM 87109 TEL: 505-345-3975 FAN: 505-345-4107 Website: clients.hallenvironmental.com

Client Name: Vertex Resources Services, Inc.	Work Order Nu	mber: 2202151		RcptNo: 1
Received By: Cheyenne Cason	2/3/2022 1:27:00	РМ	Chul	
Completed By: Cheyenne Cason	2/3/2022 2:33:44		Chul	
Reviewed By: 8 7 3/3/22			Ame	
Chain of Custody				
 Is Chain of Custody complete? 		Yes 🗸	No 🗌	Not Present
2. How was the sample delivered?		Courier		Total Li
Log In				
3. Was an attempt made to cool the samples?		Yes 🗸	No 🗌	NA 🗌
4. Were all samples received at a temperature o	f >0° C to 6.0°C	Yes 🗸	No 🗆	NA 🗆
5. Sample(s) in proper container(s)?		Yes 🔽	No 🗌	
Sufficient sample volume for indicated test(s)?		Yes 🗸	No 🗌	
7. Are samples (except VOA and ONG) properly		Yes 🗸	No 🗆	
8. Was preservative added to bottles?		Yes	No 🗹	NA 🗌
9. Received at least 1 vial with headspace <1/4" f	or AO VOA2	v . 🗆		
Were any sample containers received broken?		Yes _	No 🗌	NA 🗹
-		Yes 🗀	No 🗸	# of preserved
Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No 🗌	bottles checked for pH:
2. Are matrices correctly identified on Chain of Cu	stody?	Yes 🗸	No 🗌	(<2 or >12 unless noted) Adjusted?
3. Is it clear what analyses were requested?		Yes 🗸	No 🗌	Adjusted?
4. Were all holding times able to be met?		Yes 🗸	No 🗌	Checked by: JA 2 3 2
(If no, notify customer for authorization.)				7/0/1/2
pecial Handling (if applicable)				
Was client notified of all discrepancies with this	order?	Yes	No 🗌	NA 🗸
Person Notified:	Date:			101 =1
By Whom:	Via:		one 🗆 🖘	
Regarding:	- ,,,,	_ Sividii _ PI	none Fax	In Person
Client Instructions:				
5. Additional remarks:				
7. Cooler Information Cooler No Temp °C Condition Seal I 1 1.3 Good Not Pre	AND THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	Seal Date S	Signed By	

-	
0	
-	
20	
S	
6	
'n	
2	
0	
-	
3	
2	
00	
=	
00	
• •	
9	
12	
90	
1	
8	
2	
4	
-	
-	
0	
-	
6	
-	
6	
N.	
-	
-	

Client:	Jilain	. ^	ustody Rece ↓e←	ora	Turn-Around Standard Project Nam	d □Ru	5 DAY	- 6			HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com									
Mailing	Addres	s:			2 ALOX	214/H 4901 Hawkins NE A														
					Project #:	15-0N	89	1)5-34					ue, ivi 5-345-)9		/26/2
Phone	#:				1	-15-001	01			71. 00	05-54)-33 <i>1</i>	-		1 1012.00	uest	3. 5.5 5			024
email o	r Fax#:				Project Mana	ager:		_	<u> </u>			т		3 5 5 6		1020				نن
QA/QC	Package	S			Bra	ndon -	Schafer	3021	MRC	3's		2	0			sen				:34:52
□ Stan	ndard		□ Level 4 (Full Va	lidation)				8) 8,	0	PCB's		SS	6	5		tVAb		11		PM
Accredi			ompliance		Sampler:	AH		TMB's (8021)	/ DR	082	- -	8270SIMS	2	200		ser		1.4		
□ NEL	AC (Type)	□ Othe	r		On Ice:	Yes Yes	□ No	-	R S	8/se	9	ַ			(A)	(Pre		1.1		
	(Type)				# of Coolers:		.4-0.1=1.3 (°C)	MTBE	D(G	icid	hod	3310	S S	2)-i-	orm		11		
Date	Time	Matrix	Sample Name		Container Type and #	Preservativ		RIEX N	TPH 015D(GRO / DRO / MRO)	8081 Pesticides/8082	EDB (Method	PAHS by 8310	C E Br NO.	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)				
2-1-22	1200	50,1	BH22-01	0.0	Class Jar	ICE	COEL	1				1	1							
1	1210		BH22-02	0.0			OOZ.		7			7	11			W			+	
	1220		BH22-03	0,6			003						+						+	
	1230		BH22-04	6.0			(X)4						H			H			+	
	1300		BH22-05	6.0			CCS		H	7	+	1	+	Н					+	4
	1310		BH22-05	1,0			006				+	+	+				+		+	
	1330		BH22-05	2.0			GE7		+	+	+	+	+					++	+	
	1400		131422-06	0.0			008	13	$\dagger \dagger$	+	+	+	+1		7		-		+	
	1410)_t/[[]	BH22-06	2.0			009	+	+		+	+	+						-	
	1430		BH22-07	0,0			010	+	\forall	+	+	+	+				-	1		+-
1/	1450	1	B1+22-07	2.0	1	V	011	1	11		=								+	
V		V	BH22				GII	1	4			+	V					+++	+	+
Date:	Time:	Relinquish	ed by:		Received by:	Via:	Date Time	Rem	arks		-									\perp Pa
Date:	Time: 1900	Relinquish			Received by:	Via:	Date Time 2/3/22 1327													Page 339 of

Chain-of-Custody Record Client: Verter Mailing Address:	Turn-Around Time: Standard Rush HALL ENVIRONMI ANALYSIS LABOR	ATORY
Phone #:	Project #: 22E - 00189 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request	
email or Fax#:	Project Manager	TTT
QA/QC Package: ☐ Standard ☐ Level 4 (Full Validation)	Brandon Schaler Sold In School MRO Sales Sold In School MRO Sold	
Accreditation: ☐ Az Compliance ☐ NELAC ☐ Other	Onice: Diversity of the Control of t	
□ EDD (Type)	# of Coolers: Cooler Temphina Cer. Cooler Lemphina Cer. (CC) # of Cooler Lemphina Cer. (CC) # of Cooler Temphina Cer. (CC) # of Cooler Temphina Cer.	
	# of Coolers: Cooler Lemb(incrinding ce): Cooling A 8 Metals Br, NO 3, R 8 Metals Cooling Cooler Cooling Ceb Cooling Cooling Ceb Cooling Ceb	
Date Time Matrix Sample Name	# of Cooler Temp(incrinding c.E.): Contrainer Type and # Type 22C3191 Total Coliform (Pre 12C4)	
2-1-22 1200 So, / BH22-01 0,0	Class Jar ICE	
1210 BH22-02 0.0		
1220 BHZZ-03 0,6		
1230 BH22-04 6.0		
1300 BH22-05 6,0		
1310 BH22-05 1,0		
1330 BHZZ-05 2.0		
1400 131422-06 0.0		
1410 BH2Z-06 Z.0		
1730 BH22-07 0.0		
1 1450 181+22-07 2.0		
V 81422		
O: Time: Deliverida de	Peceived by: Via: Date Time Remarks: Compared to the period of the pe	
11 1900 accussory samples submitted to Hall Engineers to be about the	racted to other accredited laboratories. This serves as notice of this possibility. Applications	



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

April 20, 2022

Monica Peppin
Devon Energy
6488 Seven Rivers Highway
Artesia, NM 88210
TEL: (505) 350 1336

TEL: (505) 350-1336

FAX:

RE: Stray Cat 8 5 214H OrderNo.: 2204383

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 2 sample(s) on 4/8/2022 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 don't hesitate to contact HEAL for any additional information or clarifications.

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 4/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-10 0.5'

Project: Stray Cat 8 5 214H

Collection Date: 4/6/2022

Lab ID: 2204383-001 **Matrix:** SOIL **Received Date:** 4/8/2022 7:45:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: ED
Diesel Range Organics (DRO)	510	9.5	mg/Kg	1	4/11/2022 5:40:09 PM
Motor Oil Range Organics (MRO)	510	48	mg/Kg	1	4/11/2022 5:40:09 PM
Surr: DNOP	114	51.1-141	%Rec	1	4/11/2022 5:40:09 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	4/11/2022 4:57:30 PM
Surr: BFB	96.2	37.7-212	%Rec	1	4/11/2022 4:57:30 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	4/11/2022 4:57:30 PM
Toluene	ND	0.047	mg/Kg	1	4/11/2022 4:57:30 PM
Ethylbenzene	ND	0.047	mg/Kg	1	4/11/2022 4:57:30 PM
Xylenes, Total	ND	0.095	mg/Kg	1	4/11/2022 4:57:30 PM
Surr: 4-Bromofluorobenzene	98.0	70-130	%Rec	1	4/11/2022 4:57:30 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	30000	1500	mg/Kg	500	4/14/2022 5:33:28 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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 6

Date Reported: 4/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-11 0.5'

Project: Stray Cat 8 5 214H

Collection Date: 4/6/2022

Lab ID: 2204383-002 **Matrix:** SOIL **Received Date:** 4/8/2022 7:45:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst: ED
Diesel Range Organics (DRO)	6900	93		mg/Kg	10	4/11/2022 6:04:45 PM
Motor Oil Range Organics (MRO)	6300	460		mg/Kg	10	4/11/2022 6:04:45 PM
Surr: DNOP	0	51.1-141	S	%Rec	10	4/11/2022 6:04:45 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	23		mg/Kg	5	4/11/2022 5:20:56 PM
Surr: BFB	97.6	37.7-212		%Rec	5	4/11/2022 5:20:56 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	4/11/2022 5:20:56 PM
Toluene	ND	0.23		mg/Kg	5	4/11/2022 5:20:56 PM
Ethylbenzene	ND	0.23		mg/Kg	5	4/11/2022 5:20:56 PM
Xylenes, Total	ND	0.47		mg/Kg	5	4/11/2022 5:20:56 PM
Surr: 4-Bromofluorobenzene	97.4	70-130		%Rec	5	4/11/2022 5:20:56 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	31000	1500		mg/Kg	500	4/14/2022 5:45:52 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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 2 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: **2204383**

20-Apr-22

Client: Devon Energy
Project: Stray Cat 8 5 214H

Sample ID: MB-66817 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 66817 RunNo: 87235

Prep Date: 4/13/2022 Analysis Date: 4/13/2022 SeqNo: 3084673 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-66817 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 66817 RunNo: 87235

Prep Date: 4/13/2022 Analysis Date: 4/13/2022 SeqNo: 3084674 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 92.0 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 Quantitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 3 of 6

Hall Environmental Analysis Laboratory, Inc.

20-Apr-22

2204383

WO#:

Client: Devon Energy
Project: Stray Cat 8 5 214H

Sample ID: LCS-66742 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 66742 RunNo: 87160 Units: mg/Kg Prep Date: 4/8/2022 Analysis Date: 4/11/2022 SeqNo: 3081816 **PQL** SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual Diesel Range Organics (DRO) 45 10 50.00 0 90.0 68.9 135 Surr: DNOP 4.3 5.000 86.1 51.1 141

Sample ID: MB-66742 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 66742 RunNo: 87160 Prep Date: Analysis Date: 4/11/2022 SeqNo: 3081819 4/8/2022 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 8.6 10.00 85.8 51.1 141

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 range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: **2204383**

20-Apr-22

Client: Devon Energy
Project: Stray Cat 8 5 214H

Sample ID: mb-66738 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 66738 RunNo: 87148

Prep Date: 4/8/2022 Analysis Date: 4/11/2022 SeqNo: 3081392 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 970 1000 96.8 37.7 212

Sample ID: Ics-66738 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

1000

Client ID: LCSS Batch ID: 66738 RunNo: 87148

2100

Prep Date: 4/8/2022 Analysis Date: 4/11/2022 SeqNo: 3081393 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Gasoline Range Organics (GRO) 25 5.0 25.00 0 101 72.3 137

207

37.7

212

Qualifiers:

Surr: BFB

- 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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: **2204383**

20-Apr-22

Client: Devon Energy
Project: Stray Cat 8 5 214H

Sample ID: mb-66738 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: 66738 RunNo: 87148 Prep Date: 4/8/2022 Analysis Date: 4/11/2022 SeqNo: 3081430 Units: mg/Kg Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Result 0.025 Benzene ND Toluene ND 0.050 Ethylbenzene ND 0.050 Xylenes, Total ND 0.10 Surr: 4-Bromofluorobenzene 0.98 1.000 98.4 70 130

Sample ID: LCS-66738	Samp ⁻	Гуре: LC	S	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: LCSS	Batc	h ID: 667	738	F	RunNo: 87	7148				
Prep Date: 4/8/2022	Analysis [Date: 4/	11/2022		SeqNo: 30	081431	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.025	1.000	0	86.3	80	120			
Toluene	0.89	0.050	1.000	0	89.2	80	120			
Ethylbenzene	0.90	0.050	1.000	0	89.6	80	120			
Xylenes, Total	2.7	0.10	3.000	0	90.6	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

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 range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 6 of 6



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

Sample Log-In Check List

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Client Name:	Devon Energy	Worl	k Order Nur	mber: 220	14383			RcptNo: 1	
Received By:	Cheyenne Cason	4/8/202	22 7:45:00	AM		Chem	1		
Completed By:	Sean Livingston		22 9:23:51			<	,	'en ab	
Reviewed By:	TML	418/22				م		ergol-	
Chain of Cus	tody								
	ustody complete?					120			
	sample delivered?				V	No		Not Present	
Z. Hen mas me	sample delivered?			Cou	rier				
Log In									
Was an attern	npt made to cool the sa	amples?		Yes	~	No		NA 🗆	
4. Were all samp	ples received at a temp	perature of >0° C	to 6.0°C	Yes	V	No		NA 🗆	
5. Sample(s) in p	proper container(s)?			Yes	V	No			
6. Sufficient sam	ple volume for indicate	ed test(s)2		Yes	V	No			
	except VOA and ONG)		042		V				
	tive added to bottles?	property preserve	eur	Yes		No No		NA 🗆	
) B									
	ast 1 vial with headspa		/OA?	Yes		No		NA 🗹	
(), Were any sam	ple containers receive	d broken?		Yes		No	~	# of preserved	/
	rk match bottle labels?			Yes	V	No		bottles checked for pH: (<2 or ≥12 ur	place nated)
	orrectly identified on C			Yes	~	No		Adjusted?	ness (loted)
3. Is it clear what	analyses were reques	ted?		Yes	~	No			
4. Were all holdin (If no, notify cu	g times able to be mei stomer for authorizatio	(? on.)		Yes	V	No		Checked by: KPG	4-8-20
	ng (if applicable)							-	
	ified of all discrepancie		•	Yes		No		NA 🔽	
Person N	Notified:		Date						
By Whor	n:		Via:	☐ eMa	ii 🖂 i	Phone [Fax	☐ In Person	
Regardin	ng:						7 507		
Client Ins	structions:								
6. Additional rem	narks:								
7. Cooler Inform	nation								
Cooler No	Temp °C Condition	n Seal Intact	Seal No	Seal Da	ite	Signed B	lv		
1	3.7 Good					3.100 D	-		
2	3.2 Good								

Released to Imaging: 6/28/2024 10:19:19 AM

Client	Chain		ustody Record	Turn-Aroun	d Time: 5-0 d kalinda kalinda	•											NM									
Mailin	g Addres	s:	=1"//	Project Nan		20010		40	04.1		www	w.ha	llenv	riron	men	ital.co			OF	CD:						
Phone	Project #: 4901 Hawkins NE - Albuquerqu Tel. 505-345-3975 Fax 505-					Project #:			-345-	4107	09	6/26/20														
	or Fax#: Package ndard	: /	☐ Level 4 (Full Validation)	Momi	Project Manager: Monica PERPIN			(8021) (/ MRO)	(8021) / MRO)	/ MRO)	/ MRO)	/ MRO)	/ MRO)	/ MRO)	PCB's		8270SIMS		PO ₄ , SO ₄							3:34:52 PM
□ NEI	litation: _AC D (Type)	□ Az Co	ompliance	Sampler: \mathcal{L} On Ice: # of Coolers	≥ Yes : Z 4.0 €	□ No).3=3.7	MTBE / TMB's	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 F	EDB (Method 504.1)		letals	Br, NO ₃ , NO ₂ , F	(+	i-VOA)	Total Coliform (Present/Absent)				1						
Date	-	Matrix	Sample Name	Container Type and #	Preservative Type	7-0. 3,5-0.3= (°C) 3.2 HEAL No. 2204383	BTEX) M	TPH:8015	8081 Pest	EDB (Meth	PAHs by 8310 or	RCRA 8 Metals	CIJF, Br,	8260 (VOA)	8270 (Semi-VOA)	Total Colife										
416	10:10	-	BHZZ-10 0.5'	40Z	ICC	<u>201</u>	/	1					/				+									
	bottle																									
Date:	Time:	Relinquish		Received by: Via: Date Time		Rem	arks	: CC	::	:20	inc	e i	בינם	cor	>				Pag							
Date: 1/1/22	1900	Relinquished GC samples sub	ed by: Mitted to Hall Environmental may be sut	Received by:		Date Time		0,7,	~cc	Ł .	817	15	Dq.	16	NC	seve	(9)), 30 E	mer	39	Page 349 of 3						

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III 1000 Rio Brazos Rd., Aztec, NM 87410

Phone:(505) 334-6178 Fax:(505) 334-6170 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 357946

QUESTIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	357946
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2129847651
Incident Name	NAPP2129847651 STRAY CAT 8 5 FEDERAL COM #214H @ 30-025-44601
Incident Type	Produced Water Release
Incident Status	Deferral Request Received
Incident Well	[30-025-44601] STRAY CAT 8 5 FEDERAL COM #214H

Location of Release Source						
Please answer all the questions in this group.						
Site Name	STRAY CAT 8 5 FEDERAL COM #214H					
Date Release Discovered	10/02/2021					
Surface Owner	Federal					

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for	or the volumes provided should be attached to the follow-up C-141 submission.
Crude Oil Released (bbls) Details	Cause: Other Other (Specify) Crude Oil Released: 35 BBL Recovered: 35 BBL Lost: 0 BBL.
Produced Water Released (bbls) Details	Cause: Other Other (Specify) Produced Water Released: 71 BBL Recovered: 71 BBL Lost: 0 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505

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 357946

Phone:(505) 476-3470 Fax:(505) 476-3462	
OUEST	IONS (continued)
Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137 Action Number: 357946 Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)
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	
The responsible party must undertake the following actions immediately unless they could create a	safety hazard that would result in injury.
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	False
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Spill was not in containment.
	inition immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative o ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of avaluation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for relethe OCD does not relieve the operator of liability should their operations have failed to	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 it 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: Dale Woodall Title: EHS Professional

Email: Dale.Woodall@dvn.com

Date: 06/26/2024

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170 **District IV** 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 3

Action 357946

QUESTIONS (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	357946
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

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)	Between 51 and 75 (ft.)		
What method was used to determine the depth to ground water	U.S. Geological Survey		
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 1 and 5 (mi.)		
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (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 1 and 5 (mi.)		
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)		
A wetland	Between ½ and 1 (mi.)		
A subsurface mine	Between 1 and 5 (mi.)		
An (non-karst) unstable area	Greater than 5 (mi.)		
Categorize the risk of this well / site being in a karst geology	Low		
A 100-year floodplain	Greater than 5 (mi.)		
Did the release impact areas not on an exploration, development, production, or storage site	No		

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 mil	lligrams per kilograms.)
Chloride (EPA 300.0 or SM4500 Cl B)	2500
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	680
GRO+DRO (EPA SW-846 Method 8015M)	390
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed which includes the anticipated timelines for beginning and completing the remediation.	d efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
On what estimated date will the remediation commence	02/01/2022
On what date will (or did) the final sampling or liner inspection occur	05/07/2024
On what date will (or was) the remediation complete(d)	05/07/2024
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	5953
What is the estimated volume (in cubic yards) that will be remediated	439
These estimated dates and measurements are recognized to be the best guess or calculation at the	e 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 a	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.

District I

1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 **District II**

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 **District III**

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170 **District IV**

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462 State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 4

Action 357946

QUESTIONS (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	357946
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

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.)		
Yes		
R360 Artesia LLC LANDFARM [fEEM0112340644]		
Not answered.		

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC which includes the anticipated timelines for beginning and completing the remediation.

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

I hereby agree and sign off to the above statement

Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dvn.com Date: 06/26/2024

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.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III 1000 Rio Brazos Rd., Aztec, NM 87410

Phone:(505) 334-6178 Fax:(505) 334-6170 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 5

Action 357946

QUESTIONS (continued)

DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	357946
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)
QUESTIONS	
Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of	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	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	Pumpjacks, separators and supporting infrastructure would have to be moved.
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	4950
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	367
	liately under or around production equipment such as production tanks, wellheads and pipelines where n may be deferred with division written approval until the equipment is removed during other operations, or when
Enter the facility ID (f#) on which this deferral should be granted	Not answered.
Enter the well API (30-) on which this deferral should be granted	30-025-44601 STRAY CAT 8 5 FEDERAL COM #214H
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed e 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 rele the OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required asses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dvn.com Date: 06/26/2024

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 6

Action 357946

QUESTIONS (continued)

DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	357946
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)
QUESTIONS	
Sampling Event Information	
Last sampling notification (C-141N) recorded	{Unavailable.}
Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all re	mediation steps have been completed.
Requesting a remediation closure approval with this submission	No

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 357946

CONDITIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	357946
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Cre	eated By	Condition	Condition Date
CI	rystal.walker	Deferral is approved for designated deferral areas on Figure 1 and Figure 2 of application 357946. Per 19.15.29.12.C.(2). If the contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, resortation and reclamation may be deferred with division written approved until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first. Final remediation and reclamation shall take place in accordance with 19.15.29.12 and 19.15.29.13 NMAC once the site is no longer being used for oil and gas operations.	6/28/2024