

Site Information

Closure Report Spruce Goose Federal 2H (10.15.21) Lea County, New Mexico Unit C Sec 32 T20S R34E 32.679593°, -103.815580°

Crude Oil Release Source: Wellhead malfunction. Release Date: 10.15.21 Volume Released: 7 bbls/crude oil Volume Recovered: 2 bbls/crude oil

> Prepared for: Concho Operating, LLC 15 West London Rd Loving, NM 88256

Prepared by: NTG Environmental 701 Tradewinds Blvd Suite C Midland, TX 79706



TABLE OF CONTENTS

FIGURES

FIGURE 1	OVERVIEW MAP
FIGURE 2	TOPOGRAPHIC MAP
FIGURE 3	SAMPLE LOCATION MAP
FIGURE 4	EXCAVATION DEPTH MAP

TABLES/PHOTOLOG

TABLE 1	INITIAL SOIL ANALYTICAL RESULTS
TABLE 2	REMEDIATION SOIL ANALYTICAL RESULTS
PHOTOS	PHOTOLOG

APPENDICES

APPENDIX A	C-141 INITIAL AND FINAL
APPENDIX B	GROUNDWATER RESEARCH
APPENDIX C	LABORATORY ANALYTICAL REPORTS



701 Tradewinds Boulevard, Suite C Midland, Texas 79706 Tel. 432.685.3898 www.ntglobal.com

January 25, 2022

New Mexico Oil Conservation Division 1220 South St, Francis Drive Sante Fe, NM 87505

Re: Closure Report

Spruce Goose Federal Com 002H (10.15.21) Concho Operating, LLC Site Location: Unit C, S32, T20S, R34E (Lat 32.679593°, Long, -103.815580°) Lea County, New Mexico

To Whom it may concern:

On behalf of Concho Operating, LLC (COG), New Tech Global Environmental, LLC (NTGE) has prepared this letter to document site assessment and remediation activities for the Spruce Goose Federal Com 002H (10.15.21). The site is located at 32.679593°, -103.815580° within Unit C, S32, T20S, R34E, in Lea County (Figures 1 and 2).

Background

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the leak was discovered on October 15, 2021, due to a wellhead malfunction. It resulted in the release of approximately seven (7) barrels of crude oil, and two (2) barrels were recovered. The impacted area measured around 133' x 12' and 105' x 41", as shown on Figure 3. The initial C-141 form is attached in Appendix A.

Site Characterization

The site is located within a low karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, no known water sources are within a 0.50-mile radius of the location. The closest well is located approximately 1.75 miles East of the site in S34, T20S, R34E. The well has a reported depth to groundwater of 1,005' below ground surface (bgs) drilled in 2015A copy of the associated *USGS – National Water Information System* report is attached in Appendix B.

Regulatory Criteria

In accordance with the NMOCD regulatory criteria established in 19.15.29.12 NMAC, the following criteria were utilized in assessing the site.

- Benzene: 10 milligrams per kilogram (mg/kg).
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg.
- TPH: 100 mg/kg (GRO + DRO + MRO).
- Chloride: 600 mg/kg

Site Assessment & Trenching

On November 11, 2021, and December 6, 2021, NTGE conducted site assessment activities to assess soil impacts resulting from the release. A total of three(3) trenches and sample points were advanced to depths ranging surface – 3.0 ft bgs within the release area to assess the vertical and horizontal extent of potential impacts. The soil sample locations are shown on Figure 3. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins Laboratories in Midland, Texas. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015 modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and

chloride by EPA method 300.0. The laboratory reports containing analytical methods, results, and chain-of-custody documents are attached in Appendix C. The analytical results are provided in Table 1.

The areas of (S-1, S-2, and S-3) had chloride concentration values ranging from 17,200 mg/kg to 45,600 mg/kg and TPH concentration values ranging from less than 15,100 mg/kg to 16,300 mg/kg at a depth from the surface to 0.5' below the surface.

The site was trenched, and all areas were vertically delineated. Refer to Table 1.

Horizontal Delineation

The areas of H-1 through H-7 were below the 19.15.29.12 NMAC criteria.

Remediation Activities and Confirmation Sampling

New Tech Global Environmental personnel were onsite from January 20-24, 2021, supervising the remediation activities and collecting confirmation samples. A total of twenty-one (21) confirmation samples were collected (CS-1 through CS-21), and twelve (12) sidewall samples (SW-1 through SW-12) were collected every 200 square feet to ensure proper removal of the contaminated soils. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015 modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C. The results of the sampling are summarized in Table 2. The excavation depths and confirmation sample locations are shown in Figure 4.

The site was remediated to 8" below the surface, and all final confirmation samples were below 19.15.29.12 NMAC criteria.

Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. Approximately 190 cubic yards of material were excavated and transported offsite for proper disposal.

Conclusions

Based on the assessment finding and the analytical results, no further actions are required at the site. The final C-141 is attached, and COG formally requests closure of the spill. If you have any questions regarding this report or need additional information, please contact us at 432-813-0263.

Sincerely,

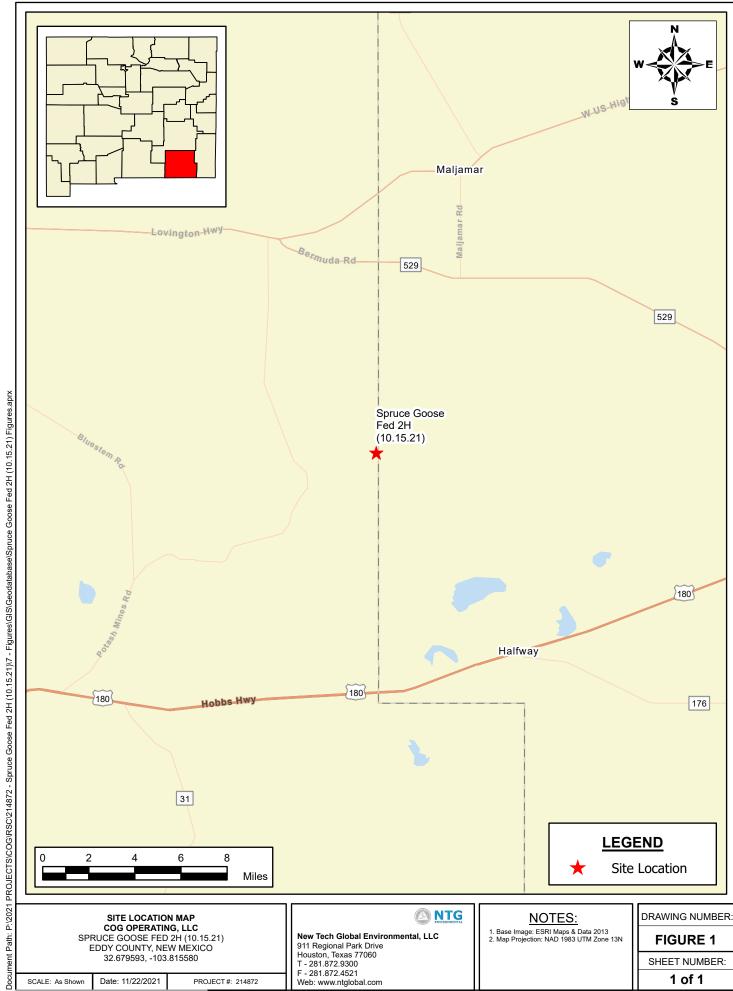
NTG Environmental

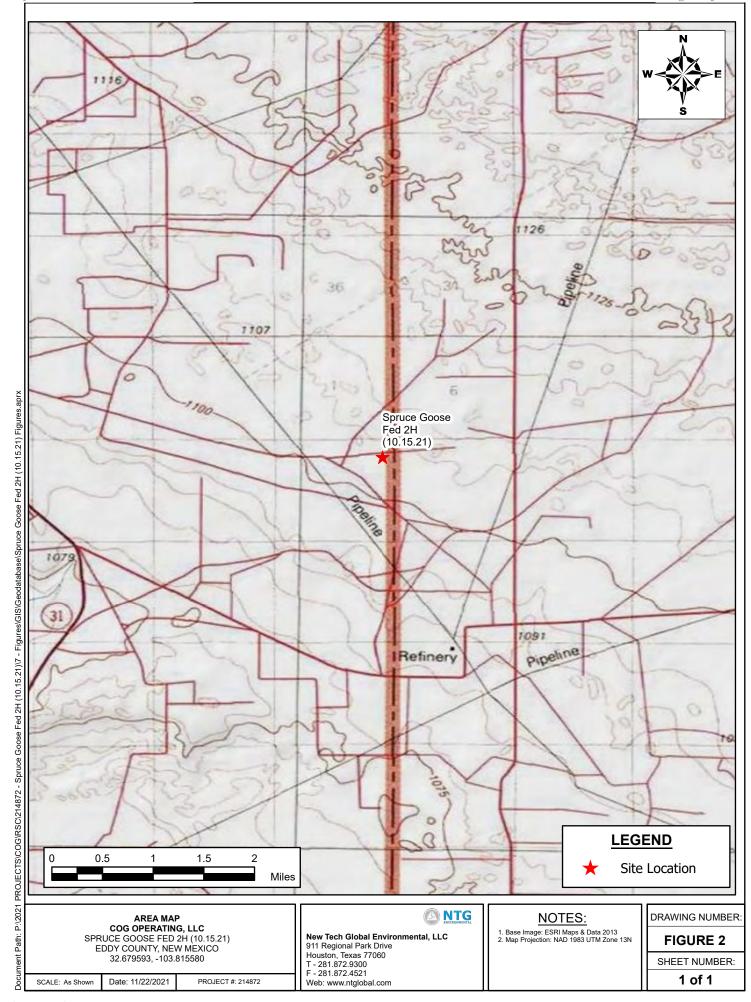
Mike Carmona

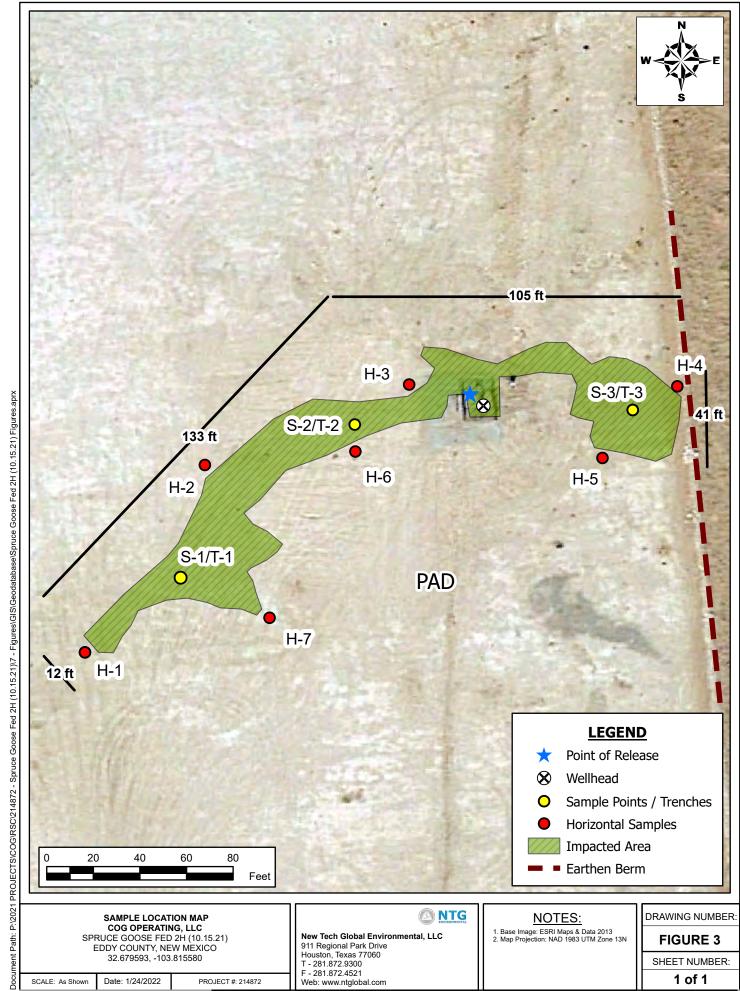
Senior Project Manager

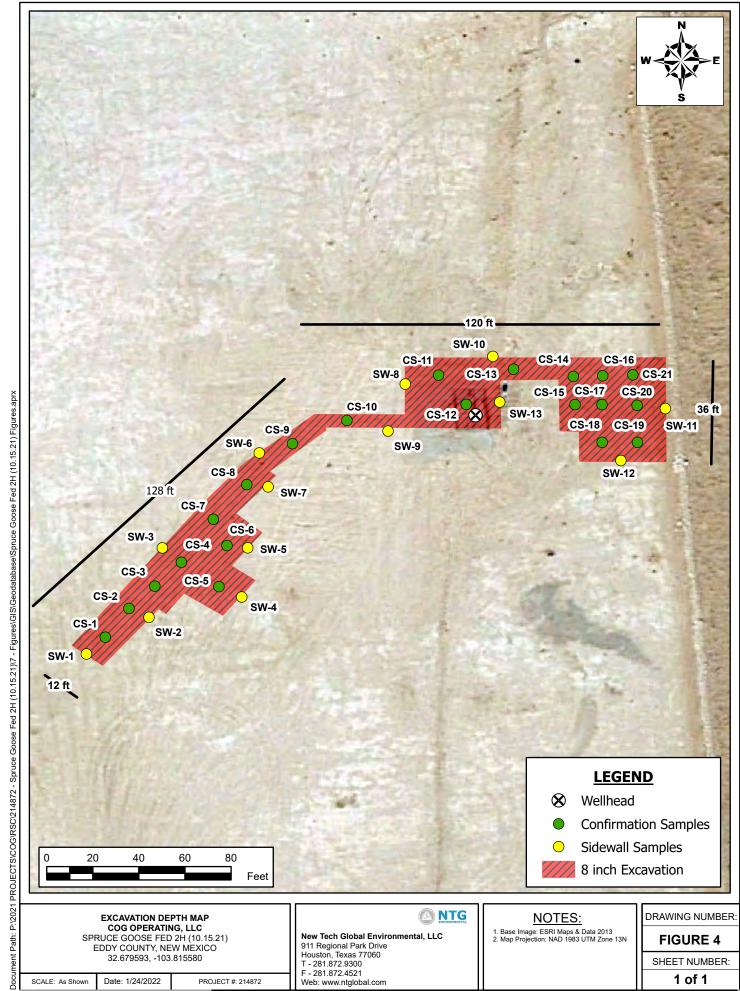


Figures











Tables

PHOTOGRAPHIC LOG

Concho Operating, LLC

Photograph No. 1

Facility: Spruce Goose Federal 2H

(10.15.21)

County: Lea County, New Mexico

Description:

View Southwest, area of CS-1 through CS-9.



Photograph No. 2

Facility: Spruce Goose Federal 2H

(10.15.21)

County: Lea County, New Mexico

Description:

View South, area of CS-9 through CS-13.



Photograph No. 3

Facility: Spruce Goose Federal 2H

(10.15.21)

County: Lea County, New Mexico

Description:

View Southwest, area of CS-11 through CS-21.

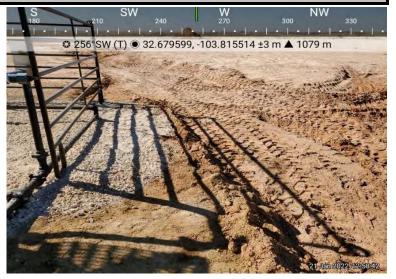


Table 1
COG Operating, LLC
Spruce Goose Fed 2H (10.15.21)
Eddy County, New Mexico

Commis ID	Dete	Sample		TPI	H (mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride	
Sample ID	Date	Depth (ft)	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
S-1	11/10/2021	0-0.5	<499	16,000	<499	16,000	0.0201	0.159	0.0551	0.0601	0.294	17,200	
	12/6/2021	1	<10.0	12.6	<10.0	12.6	<0.50	<0.50	<0.50	<0.150	<0.300	96.0	
T-1	"	2	<10.0	<10.0	<10.0	<10.0	<0.50	<0.50	<0.50	<0.150	<0.300	160	
	"	3	<10.0	<10.0	<10.0	<10.0	<0.50	<0.50	<0.50	<0.150	<0.300	128	
S-2	11/10/2021	0-0.5	<498	16,300	<498	16,300	0.00676	0.0775	0.0566	0.0558	0.197	35,100	
T-2	12/6/2021	1	<10.0	<10.0	<10.0	<10.0	<0.50	<0.50	<0.50	<0.150	<0.300	160	
1-2	"	2	<10.0	<10.0	<10.0	<10.0	<0.50	<0.50	<0.50	<0.150	<0.300	16.0	
S-3	11/10/2021	0-0.5	<499	15,100	<499	15,100	0.00709	0.0683	0.0919	0.0530	0.220	45,600	
T-3	12/6/2021	1	<10.0	<10.0	<10.0	<10.0	<0.50	<0.50	<0.50	<0.150	<0.300	112	
1-3	"	2	<10.0	<10.0	<10.0	<10.0	<0.50	<0.50	<0.50	<0.150	<0.300	16.0	
H-1	11/2/2021	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	96.8	
H-2	11/10/2021	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	44.9	
H-3	11/10/2021	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	24.7	
H-4	11/10/2021	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	11.6	
H-5	11/10/2021	-	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	15.8	
H-6	11/10/2021	-	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	27.4	
H-7	11/10/2021	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	14.4	
Regulato	ory Limits					100 mg/kg	10 mg/kg	-	-	-	50 mg/kg	600 mg/kg	

Removed

(-) Not Analyzed

A - Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH- Total Petroleum Hydrocarbons

ft-feet

Table 2
COG Operating, LLC
Spruce Goose Fed 2H (10.15.21)
Eddy County, New Mexico

Sample ID	Date	Sample	TPH (mg/kg)			Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride	
Gample 15	Date	Depth (In)	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
CS-1	1/21/2022	8"	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	28.0
CS-2	1/21/2022	8"	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	11.6
CS-3	1/21/2022	8"	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	6.22
CS-4	1/21/2022	8"	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	6.05
CS-5	1/21/2022	8"	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<4.99
CS-6	1/21/2022	8"	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<4.98
CS-7	1/21/2022	8"	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	5.83
CS-8	1/21/2022	8"	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	6.33
CS-9	1/21/2022	8"	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	<5.02
CS-10	1/21/2022	8"	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	6.12
CS-11	1/21/2022	8"	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<4.97
CS-12	1/21/2022	8"	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	97.5
CS-13	1/21/2022	8"	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	117
CS-14	1/21/2022	8"	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	108
CS-15	1/21/2022	8"	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	103
CS-16	1/21/2022	8"	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	109
CS-17	1/21/2022	8"	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	96.2
CS-18	1/21/2022	8"	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	102
CS-19	1/21/2022	8"	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	101
CS-20	1/21/2022	8"	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	98.6
CS-21	1/21/2022	8"	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	91.8

Table 2
COG Operating, LLC
Spruce Goose Fed 2H (10.15.21)
Eddy County, New Mexico

Commis ID	Doto	Sample		TPI	l (mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride	
Sample ID	Date	Depth (In)	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
SW-1	1/21/2022		<49.9	<49.9	<49.9	<49.9	<0.00200	0.0118	<0.00200	<0.00400	0.0118	8.22	
SW-2	1/21/2022		<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	6.37	
SW-3	1/21/2022		<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<4.95	
SW-4	1/21/2022		<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	<4.98	
SW-5	1/21/2022		<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	5.24	
SW-6	1/21/2022		<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	5.34	
SW-7	1/21/2022		<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	5.64	
SW-8	1/21/2022		<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<5.05	
SW-9	1/21/2022		<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	105	
SW-10	1/21/2022		<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	105	
SW-11	1/21/2022		<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	100	
SW-12	1/21/2022		<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	100	
SW-13	1/21/2022		<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	98.1	
Regulato	ory Limits					100 mg/kg	10 mg/kg	-	-	-	50 mg/kg	600 mg/kg	

(-) Not Analyzed

A - Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH- Total Petroleum Hydrocarbons

ft-feet



Photo Log



Appendix A

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	OGRID				
Contact Nam	e			Contact T	act Telephone				
Contact emai	1			Incident #	(assigned by OCD)			
Contact mail	ing address								
			Location	of Release S	ource				
Latitude			(NAD 83 in dec	Longitude imal degrees to 5 decir	mal places)				
Site Name				Site Type					
Date Release	Discovered			API# (if app	plicable)				
Unit Letter	Section	Township	Range	Cour	nty]			
Crude Oil	Material	Federal Tr	Nature and	Volume of		e volumes provided below)			
Produced		Volume Release			Volume Recovered (bbls)				
Troduced	Water		ion of dissolved cl	hloride in the	Yes N	` '			
Condensa	te	Volume Released	d (bbls)		Volume Reco	overed (bbls)			
☐ Natural G	as	Volume Released	d (Mcf)		Volume Reco	overed (Mcf)			
Other (des	scribe)	Volume/Weight	Released (provide	units)) Volume/Weight Recovered (provide units)				
Cause of Rele	ease								

Received by OCD: 4/5/2022 1:16:04 PM Form C-141 State of New Mexico Page 2 Oil Conservation Division

	Page 18 of 1.	10
Incident ID		
District RP		
Facility ID		

Application ID

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsib	e party consider this a major release?
Yes No		
If YES, was immediate n	otice given to the OCD? By whom? To whom	? When and by what means (phone, email, etc)?
	Initial Resp	onse
The responsible	party must undertake the following actions immediately unl	ess they could create a safety hazard that would result in injury
☐ The source of the rele	ease has been stopped.	
☐ The impacted area ha	as been secured to protect human health and the	environment.
Released materials ha	ave been contained via the use of berms or dikes	, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed and ma	anaged appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain why	
Dar 10 15 20 8 R (4) NM	IAC the reconneible party may commence reme	diation immediately after discovery of a release. If remediation
has begun, please attach	a narrative of actions to date. If remedial effo	rts have been successfully completed or if the release occurred e attach all information needed for closure evaluation.
regulations all operators are public health or the environi failed to adequately investig	required to report and/or file certain release notificat ment. The acceptance of a C-141 report by the OCD gate and remediate contamination that pose a threat to	of my knowledge and understand that pursuant to OCD rules and ions and perform corrective actions for releases which may endanger does not relieve the operator of liability should their operations have groundwater, surface water, human health or the environment. In onsibility for compliance with any other federal, state, or local laws
Printed Name		Citle:
Signature:	tanisaparge _	Date:
email:	T	elephone:
OCD Only		
Received by:	D:	nte:

						L48 Spill Vo	lume Estimate	Form				
Received by OCD: 475/2022-13 1/6:04 PM ICE GOOSE FEDERAL COM 2H Page 19 of 110												
Asset Area: ROTO FLEX PAD												
	Release Discovery Date & Time: 10/15/2021 11:00AM MT TIME											
	Release Type: Oil											
Provide	Provide any known details about the event: 2* TOP CHECK VALVE											
	Spill Calculation - On Pad Surface Pool Spill											
Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Deepest point in each of the areas (in.)	No. of boundaries of "shore" in each area	Estimated <u>Pool</u> Area (sq. ft.)	Estimated Average Depth (ft.)	Estimated volume of each pool area (bbl.)	Penetration allowance (ft.)	Total Estimated Volume of Spill (bbl.)	Percentage of Oil if Spilled Fluid is a Mixture	Total Estimated Volume of Spilled Oil (bbl.)	Total Estimated Volume of Spilled Liquid other than Oil (bbl.)
Rectangle A	200.0	25.0	0.10	1	5000.000	0.008	7.417	0.000	7.420			
Rectangle B					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle C					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle D	4		-		0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle E					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle F					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle G					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle H		i i			0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle I				40 DV4	0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Released to In	nagin	g: 5/.	3/2022 3:20:	59 PM	0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			•
								Total Volume Release:	7.420			

Received by OCD: 4/5/2022 1:16:04 PM Form C-141 State of New Mexico
Page 3 Oil Conservation Division

	Page 20 of 110
Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	(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.	
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well 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	ls.

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: 4/5/2022 1:16:04 PM Form C-141 State of New Mexico Page 4 Oil Conservation Division

	Page 21 of 1	10
Incident ID		
District RP		
Facility ID		
Application ID		

I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release not public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a threaddition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	ifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In
Printed Name:	
Signature: Jacqui Trois	Date:
email:	Telephone:
OCD Only	
Received by:	Date:

Received by OCD: 4/5/2022 1:16:04 PM Form C-141 State of New Mexico Page 6 Oil Conservation Division

	Page 22 of 110
Incident ID	
District RP	
Facility ID	
Application ID	

Closure

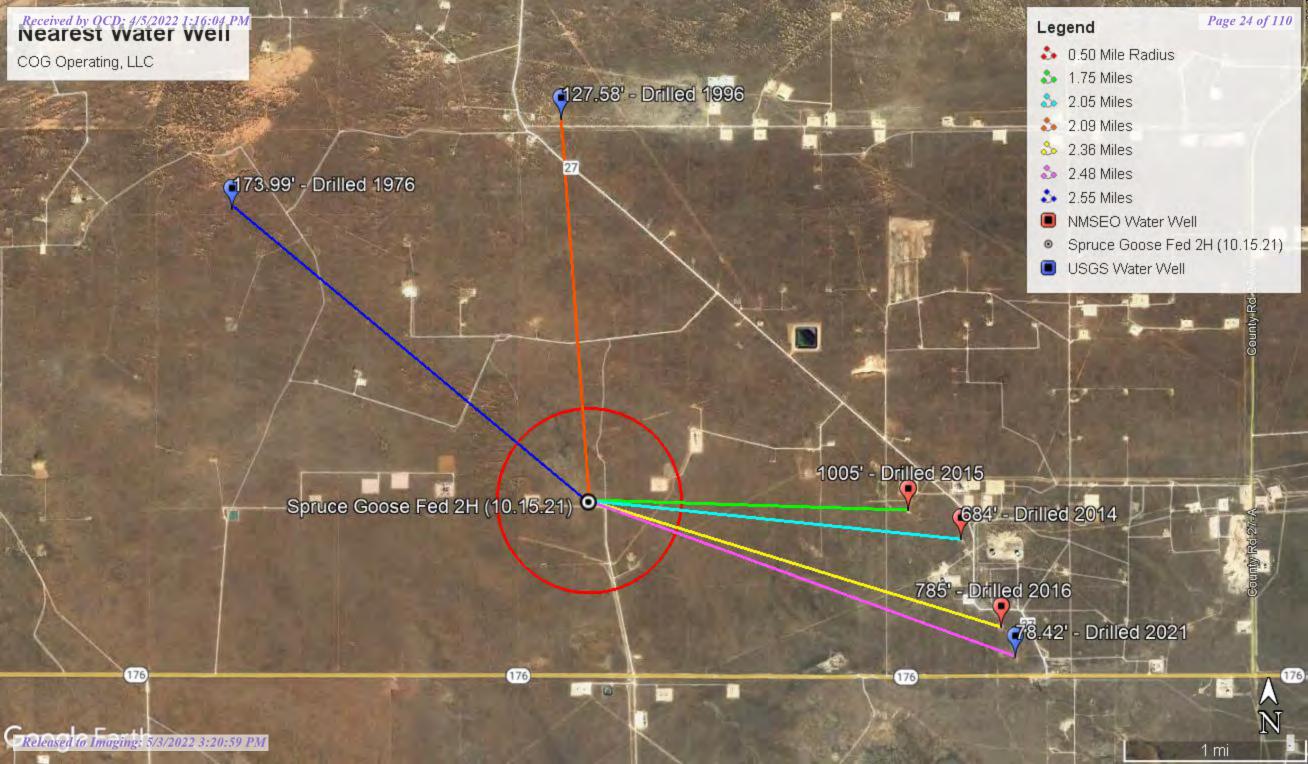
The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled 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 items must be included in the closure report.

☐ A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
☐ 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	ntions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in
Printed Name:	
Signature: _ Pacqui Provis	Date: 4/5/2022
email:	Telephone:
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





New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.) (R=POD has been replaced, O=orphaned, C=the file is

closed)

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

	POD Sub-		Q (Q Q	<u>!</u>						Depth	Depth	Water
POD Number	Code basin	County	64 1	6 4	Sec	Tws	Rng	Х	Υ	Distance	Well	Water	Column
CP 01860 POD1	СР	LE	3	3 2	30	20S	34E	631560	3600891 🌑	1362	112		
CP 01867 POD2	СР	LE	1	2 4	20	20S	34E	633513	3603189 🌍	2488	200		
CP 01867 POD1	СР	LE	1	2 4	20	20S	34E	633584	3603189 🌍	2506	200		
CP 01867 POD4	СР	LE	1	2 4	20	20S	34E	633513	3603245 🌍	2542	220		
CP 01867 POD3	СР	LE	1	2 4	20	20S	34E	633580	3603242 🌍	2556	220		
CP 01389 POD1	СР	LE	1	1 1	34	20S	34E	635726	3600733 🌍	2808	1250	1005	245
CP 01330 POD1	СР	LE	4	2 1	34	20S	34E	636197	3600483 🌍	3292	1349	684	665
CP 00657 POD1	СР	LE		3 3	3 17	20S	34E	632465	3604239* 🌍	3495	165		
CP 01352 POD1	СР	LE	3	1 4	34	20S	34E	636559	3599716 🌍	3791	1270	785	485

Average Depth to Water: 824 feet

DEPTH TO WATER

Minimum Depth: 684 feet

Maximum Depth: 1005 feet

Record Count: 9

UTMNAD83 Radius Search (in meters):

Easting (X): 632917.62 Northing (Y): 3600773.3 Radius: 4000

*UTM location was derived from PLSS - see Help

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



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

Q64 Q16 Q4 Sec Tws Rng

X

CP 01330 POD1

4 2 1 34 20S 34E

636197 3600483

Driller License: 421 Driller Company: GLENN'S WATER WELL SERVICE

Driller Name: GLENN, CLARK A."CORKY"

Log File Date: 09/10/2014 PCW Rcv Date: Source: Artesian

Pump Type: Pipe Discharge Size: Estimated Yield:

Casing Size: 7.00 Depth Well: 1349 feet Depth Water: 684 feet

Water Bearing Stratifications: Top Bottom Description

965 1020 Sandstone/Gravel/Conglomerate
1020 1065 Sandstone/Gravel/Conglomerate
1065 1140 Sandstone/Gravel/Conglomerate
1140 1185 Sandstone/Gravel/Conglomerate

Casing Perforations: Top Bottom

905 1349

Meter Number: 17853 Meter Make: SEAMETRICS

Meter Serial Number:09191916Meter Multiplier:1.0000Number of Dials:9Meter Type:Diversion

Unit of Measure: Barrels 42 gal. Return Flow Percent:

Usage Multiplier: Reading Frequency: Monthly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr Comment	Mtr Amount Online
12/31/2016	2016	953444	A	ap	0
01/31/2017	2017	955168	A	ap	22.221
03/01/2017	2017	964878	A	ap	125.155
04/01/2017	2017	964878	A	ap	0
05/01/2017	2017	964878	A	ap	0
06/01/2017	2017	964878	A	ap	0
06/30/2017	2017	996259	A	ap	404.480
07/31/2017	2017	1030202	A	ap	437.502
10/31/2017	2017	1120771	A	ap	1167.373
11/30/2017	2017	1152803	A	ap	412.871
12/29/2017	2017	1188095	A	ap	454.890
01/31/2018	2018	1222646	A	ap	445.339
02/28/2018	2018	1251444	A	ap	371.187
03/30/2018	2018	1281588	A	ap	388.536
04/30/2018	2018	1298034	A	ap	211.978
06/01/2018	2018	1312770	A	ap	189.937
06/29/2018	2018	1316727	A	ap	51.003

07/31/2018 2018	1321964	A	ap		67.501
09/01/2018 2018	1356780	A	ap		448.755
10/01/2018 2018	1397324	A	ap		522.585
11/01/2018 2018	1414872	A	ap		226.182
11/30/2018 2018	1469408	A	ap		702.932
03/01/2019 2019	1530963	A	ap		793.403
04/01/2019 2019	1537352	A	ap		82.350
05/01/2019 2019	1566041	A	ap		369.782
05/31/2019 2019	1588026	A	ap		283.372
06/30/2019 2019	1588026	A	ap		0
08/01/2019 2019	1596265	A	RPT		1.062
09/01/2019 2019	1602800	A	RPT		0.842
09/30/2019 2019	1609572	A	RPT		0.873
10/31/2019 2019	1646801	A	RPT		4.799
11/30/2019 2019	1681656	A	RPT		4.493
12/31/2019 2019	1716832	A	RPT		4.534
02/01/2020 2020	1740772	A	RPT		3.086
03/01/2020 2020	1740772	A	RPT		0
04/01/2020 2020	1740772	A	RPT		0
05/01/2020 2020	1740772	A	RPT		0
06/01/2020 2020	1740772	A	RPT		0
08/01/2020 2020	1740981	A	RPT		0.027
08/19/2020 2020	1741173	A	RPT	Final meter reading	0.025
08/19/2020 2020	0	A	RPT	new approved meter.	0
09/01/2020 2020	3362	A	RPT		0.433
10/01/2020 2020	6884	A	RPT		0.454
10/31/2020 2020	7678	A	WEB	;	0.102 X
11/30/2020 2020	7678	A	WEB	;	0 X
12/31/2020 2020	7686	A	WEB	;	0.001 X
01/31/2021 2021	7686	A	WEB	•	0 X
**YTD Meter Amounts:	Year		Amount		
	2016		0		
	2017		3024.492		
	2018		3625.935		
	2019		1545.510		
	2020		4.128		
	2021		0		

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.

11/5/21 7:25 AM

POINT OF DIVERSION SUMMARY



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

2 1 4 24 205 24E

X Y

CP 01352 POD1 3 1 4 34 20S 34E 636559 3599716

Driller License: 421 Driller Company: GLENN'S WATER WELL SERVICE

Driller Name: GLENN, CLARK A."CORKY"

Drill Start Date: 07/29/2016 **Drill Finish Date:** 07/30/2016 **Plug Date:**

Log File Date:08/09/2016PCW Rcv Date:Source:ArtesianPump Type:Pipe Discharge Size:Estimated Yield:42 GPMCasing Size:6.50Depth Well:1270 feetDepth Water:785 feet

Water Bearing Stratifications: Top Bottom Description

999 1022 Sandstone/Gravel/Conglomerate 1022 1085 Sandstone/Gravel/Conglomerate 1085 1107 Sandstone/Gravel/Conglomerate 1107 1128 Sandstone/Gravel/Conglomerate 1128 1234 Sandstone/Gravel/Conglomerate 1234 1270 Shale/Mudstone/Siltstone

Casing Perforations: Top Bottom

947 1270

Meter Number:17856Meter Make:BLANCETTMeter Serial Number:112 211 502Meter Multiplier:1.0000

Number of Dials: 8 Meter Type: Diversion

Unit of Measure: Barrels 42 gal. Return Flow Percent:

Usage Multiplier: Reading Frequency: Monthly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr Comment	Mtr Amount Online
12/31/2016	2016	20083	A	ap	0
01/31/2017	2017	20352	A	ap	3.467
03/01/2017	2017	24169	A	ap	49.199
04/01/2017	2017	24169	A	ap	0
05/01/2017	2017	24169	A	ap	0
06/01/2017	2017	24169	A	ap	0
06/30/2017	2017	50671	A	ap	341.593
07/31/2017	2017	73096	A	ap	289.043
10/31/2017	2017	128138	A	ap	709.454
11/30/2017	2017	138961	A	ap	139.501
12/29/2017	2017	138961	A	ap	0
01/31/2018	2018	198987	A	ap	773.695
02/28/2018	2018	219209	A	ap	260.648
03/30/2018	2018	236399	A	ap	221.568
04/30/2018	2018	254856	A	ap	237.898

72.657	ap	A	260493	2018	06/01/2018
63.055	ap	A	265385	2018	06/29/2018
0	ap	A	265385	2018	07/31/2018
0	ap	A	265385	2018	09/01/2018
0	ap	A	265385	2018	10/01/2018
0	ap	A	265385	2018	11/01/2018
0	ap	A	265385	2018	11/30/2018
102.934	ap	A	273371	2019	03/01/2019
120.760	Ap	A	282740	2019	04/01/2019
269.774	Ap	A	303670	2019	05/01/2019
195.286	Ap	A	318821	2019	05/31/2019
0	Ap	A	318821	2019	06/30/2019
0.549	RPT	A	323078	2019	08/01/2019
0.982	RPT	A	330695	2019	09/01/2019
0.617	RPT	A	335482	2019	09/30/2019
1.318	RPT	A	345706	2019	10/31/2019
2.521	RPT	A	365264	2019	11/30/2019
2.926	RPT	A	387964	2019	12/31/2019
2.158	RPT	A	404703	2020	02/01/2020
0	RPT	A	404703	2020	03/01/2020
0	RPT	A	404703	2020	04/01/2020
0	RPT	A	404703	2020	05/01/2020
0	RPT	A	404703	2020	06/01/2020
0.721	RPT	A	410299	2020	09/01/2020
0.454	RPT	A	413825	2020	10/01/2020
0.2	WEB	A	413825	2020	10/31/2020
0.199	WEB	A	415371	2020	11/30/2020
0	RPT	A	415371	2020	12/30/2020
0	RPT	A	0	2020	12/31/2020
	Amount		Year	er Amounts:	**YTD Met
	0		2016		
	1532.257		2017		
	1629.521		2018		
	697.667		2019		
	3.532		2020		

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.

11/5/21 7:28 AM

POINT OF DIVERSION SUMMARY



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

1 1 24 205 245

X Y

CP 01389 POD1 1 1 1 34 20S 34E 635726 3600733

Driller License: 421 Driller Company: GLENN'S WATER WELL SERVICE

Driller Name: GLENN, CLARK A."CORKY"

Drill Start Date: 01/05/2015 **Drill Finish Date:** 01/13/2015 **Plug Date:**

Log File Date: 02/04/2015 PCW Rcv Date: Source: Artesian

Pump Type: Pipe Discharge Size: Estimated Yield:

Casing Size: 6.50 Depth Well: 1250 feet Depth Water: 1005 feet

Water Bearing Stratifications: Top Bottom Description

1014 Sandstone/Gravel/Conglomerate
 1014 1199 Sandstone/Gravel/Conglomerate
 1199 1230 Sandstone/Gravel/Conglomerate
 1230 1240 Sandstone/Gravel/Conglomerate

Casing Perforations: Top Bottom

912 1250

Meter Number:17857Meter Make:BLANCETTMeter Serial Number:021 501 437Meter Multiplier:1.0000

Number of Dials: 8 Meter Type: Diversion

Unit of Measure: Barrels 42 gal. Return Flow Percent:

Usage Multiplier: Reading Frequency: Monthly

Meter Readings (in Acre-Feet)

Read I	Date	Year	Mtr Reading	Flag	Rdr Comment	Mtr Amount Online
12/31/2	2016	2016	643200	A	ym	0
01/31/2	2017	2017	659677	A	ym	212.377
03/01/2	2017	2017	668463	A	ap	113.246
04/01/2	2017	2017	668463	A	ap	0
05/01/2	2017	2017	668463	A	ap	0
06/01/2	2017	2017	668463	A	ap	0
06/30/2	2017	2017	753526	A	ap	1096.405
07/31/2	2017	2017	790940	A	ap	482.241
10/31/2	2017	2017	887028	A	ap	1238.510
11/30/2	2017	2017	931714	A	ap	575.972
12/29/2	2017	2017	978472	A	ap	602.679
01/31/2	2018	2018	1025480	A	ap	605.901
02/28/2	2018	2018	1064561	A	ap	503.728
03/30/2	2018	2018	1064561	A	ap	0
04/30/2	2018	2018	1124101	A	ap	767.431
06/01/2	2018	2018	1166461	A	ap	545.992
06/29/2	2018	2018	1181122	A	ap	188.970

07/31/2018	2018	1198381	Α	ap
09/01/2018	2018	1246600	A	ap
10/01/2018	2018	1280459	A	ap
11/01/2018	2018	1299657	A	ap
11/30/2018	2018	1351407	A	ap
03/01/2019	2019	1416173	A	ap
04/01/2019	2019	1430857	A	ap
05/01/2019	2019	1459823	A	ap
05/31/2019	2019	1482018	A	ap
06/30/2019	2019	1482018	A	ap
08/01/2019	2019	1507510	A	RPT
09/01/2019	2019	1523727	A	RPT
09/30/2019	2019	1556952	A	RPT
10/31/2019	2019	1558164	A	RPT
11/30/2019	2019	1558164	A	RPT
12/31/2019	2019	1563212	A	RPT
02/01/2020	2020	1587959	A	RPT
03/01/2020	2020	1587959	A	RPT
04/01/2020	2020	1587959	A	RPT
05/01/2020	2020	1587959	A	RPT
06/01/2020	2020	1587959	A	RPT
08/01/2020	2020	1593314	A	RPT
09/01/2020	2020	1604044	A	RPT
10/01/2020	2020	1608382	A	RPT
10/31/2020	2020	1608900	A	WEB
11/30/2020	2020	1608900	A	WEB
12/31/2020	2020	1612278	A	WEB
01/31/2021	2021	1612278	A	WEB
**YTD Met	er Amounts:	Year		Amount
		2016		0
		2017		4321.430
		2018		4806.881
		2019		1693.953
		2020		6.324
		2021		0

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

11/5/21 7:14 AM

POINT OF DIVERSION SUMMARY

Click to hideNews Bulletins

- Explore the NEW <u>USGS National Water Dashboard</u> interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News 🔊

Groundwater levels for New Mexico

Click to hide state-specific text

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 323109103323801

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 323109103323801 20S.34E.34.43421

Lea County, New Mexico

Latitude 32°31'26.6", Longitude 103°32'40.6" NAD83

Land-surface elevation 3,776 feet above NAVD88

The depth of the well is 100 feet below land surface.

This well is completed in the Other aguifers (N9999OTHER) national aguifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

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

Date \$	Time \$? Water-level \$ date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above \$ specific vertical datum	Referenced vertical \$\datum\$? Status	? Method of measurement	? Measuring agency	? Source measu
1972-10-02		D	62610		3684.90	NGVD29	3	Z		
1972-10-02		D	62611		3686.50	NAVD88	3	Z		
1972-10-02		D	72019	89.50			3	Z		
1976-01-28		D	62610		3689.46	NGVD29	1	Z		
1976-01-28		D	62611		3691.06	NAVD88	1	Z		
1976-01-28		D	72019	84.94			1	Z		
1981-02-18		D	62610		3690.72	NGVD29	1	Z		
1981-02-18		D	62611		3692.32	NAVD88	1	Z		
1981-02-18		D	72019	83.68			1	Z		
1986-04-01		D	62610		3690.26	NGVD29	1	Z		
1986-04-01		D	62611		3691.86	NAVD88	1	Z		
1986-04-01		D	72019	84.14			1	Z		
1996-02-02		D	62610		3692.43	NGVD29	1	S		
1996-02-02		D	62611		3694.03	NAVD88	1	S		

Date \$	Time \$? Water- level date- time accuracy	? Parameter \$\diangle\$ code	Water level, feet below land surface	Water level, feet above \$ specific vertical datum	Referenced vertical \$\datum	? Status	? Method of measurement	? Measuring \$\diamon{\pi}{agency}	? Source measu
1996-02-02		D	72019	81.97			1	S		
2015-12-17	22:40 UTC	m	62610		3703.94	NGVD29	1	S	USGS	
2015-12-17	22:40 UTC	m	62611		3705.54	NAVD88	1	S	USGS	
2015-12-17	22:40 UTC	m	72019	70.46			1	S	USGS	
2021-01-21	21:30 UTC	m	62610		3695.98	NGVD29	1	V	USGS	
2021-01-21	21:30 UTC	m	62611		3697.58	NAVD88	1	V	USGS	
2021-01-21	21:30 UTC	m	72019	78.42			1	V	USGS	

Explanation

Section		Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Status	3	True value is above reported value due to local conditions
Method of measurement	S	Steel-tape measurement.
Method of measurement	V	Calibrated electric-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	А	Approved for publication Processing and review completed.

Questions about sites/data? Feedback on this web site Automated retrievals <u>Help</u> Data Tips **Explanation of terms** Subscribe for system changes **News**

Accessibility Policies and Notices

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

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

Page Contact Information: New Mexico Water Data Maintainer
Page Last Modified: 2021-11-05 09:35:01 EDT

0.35 0.32 nadww02



Click to hideNews Bulletins

- Explore the NEW <u>USGS National Water Dashboard</u> interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News 🔊

Groundwater levels for New Mexico

Click to hide state-specific text

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 323345103351101

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 323345103351101 20S.34E.17.33442

Lea County, New Mexico Latitude 32°34'00", Longitude 103°35'14" NAD27 Land-surface elevation 3,639.00 feet above NGVD29

The depth of the well is 160 feet below land surface. This well is completed in the Other aguifers (N9999OTHER) national aguifer.

This well is completed in the Chinle Formation (231CHNL) local aquifer.

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

Date \$	Time \$? Water-level \$ date- time accuracy	? Parameter ^{\$\frac{1}{2}} code	Water level, feet below land surface	Water level, feet above \$ specific vertical datum	Referenced vertical \$\phi\$ datum	? Status	? Method of measurement	? Measuring $\hat{\mathbf{v}}$ agency	? Source measur
1965-11-16		D	62610		3508.78	NGVD29	1	Z		
1965-11-16		D	62611		3510.34	NAVD88	1	Z		
1965-11-16		D	72019	130.22			1	Z		
1968-03-19		D	62610		3510.30	NGVD29	1	Z		
1968-03-19		D	62611		3511.86	NAVD88	1	Z		
1968-03-19		D	72019	128.70			1	Z		
1971-02-03		D	62610		3495.28	NGVD29	3	Z		
1971-02-03		D	62611		3496.84	NAVD88	3	Z		
1971-02-03		D	72019	143.72			3	Z		
1972-10-02		D	62610		3508.62	NGVD29	3	Z		
1972-10-02		D	62611		3510.18	NAVD88	3	Z		
1972-10-02		D	72019	130.38			3	Z		
1976-01-28		D	62610		3506.83	NGVD29	1	Z		
1976-01-28		D	62611		3508.39	NAVD88	1	Z		

Date \$	Time \$? Water-level \$ date-time accuracy	? Parameter [‡] code	Water level, feet below land surface	Water level, feet above \$ specific vertical datum	Referenced vertical \$\datum\$? Status	? Method of reasurement	? Measuring [‡] agency	? Source measu
1976-01-28		D	72019	132.17			1	Z		
1981-02-19		D	62610		3508.61	NGVD29	1	Z		
1981-02-19		D	62611		3510.17	NAVD88	1	Z		
1981-02-19		D	72019	130.39			1	Z		
1986-04-01		D	62610		3508.26	NGVD29	1	Z		
1986-04-01		D	62611		3509.82	NAVD88	1	Z		
1986-04-01		D	72019	130.74			1	Z		
1996-01-26		D	62610		3511.42	NGVD29	1	S		
1996-01-26		D	62611		3512.98	NAVD88	1	S		
1996-01-26		D	72019	127.58			1	S		

Explanation

Section \$	Code \$	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Status	3	True value is above reported value due to local conditions
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	А	Approved for publication Processing and review completed.

<u>Questions about sites/data?</u> <u>Feedback on this web site</u> <u>Automated retrievals</u> <u>Help</u> Data Tips Explanation of terms
Subscribe for system changes News

Accessibility FOIA Privacy Policies and Notices U.S. Department of the Interior | U.S. Geological Survey. Title: Groundwater for New Mexico: Water Levels URL: https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?

USA.gov

Page Contact Information: New Mexico Water Data Maintainer
Page Last Modified: 2021-11-05 09:40:34 EDT

0.27 0.23 nadww01



Click to hideNews Bulletins

- Explore the NEW <u>USGS National Water Dashboard</u> interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News 🔊

Groundwater levels for New Mexico

Click to hide state-specific text

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 323335103370601

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 323335103370601 20S.33E.24.12411

Lea County, New Mexico Latitude 32°33'35", Longitude 103°37'06" NAD27 Land-surface elevation 3,641 feet above NAVD88 The depth of the well is 676 feet below land surface.

This well is completed in the Other aguifers (N9999OTHER) national aguifer.

This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

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

Date \$	Time \$? Water- level date- time accuracy	? Parameter ^{\$\displaystyle{\pi}} code	Water level, feet below land surface	Water level, feet above \$ specific vertical datum	Referenced vertical \$\datum\$? \$\dagger\$? Method of measurement	? Measuring [‡] agency	? Source measu
1968-03-19		D	62610		3242.63	NGVD29	1	Z		
1968-03-19		D	62611		3244.19	NAVD88	1	Z		
1968-03-19		D	72019	396.81			1	Z		
1971-02-03		D	62610		3225.89	NGVD29	3	Z		
1971-02-03		D	62611		3227.45	NAVD88	3	Z		
1971-02-03		D	72019	413.55			3	Z		
1972-09-22		D	62610		3234.74	NGVD29	1	Z		
1972-09-22		D	62611		3236.30	NAVD88	1	Z		
1972-09-22		D	72019	404.70			1	Z		
1976-02-20		D	62610		3200.13	NGVD29	3	Z		
1976-02-20		D	62611		3201.69	NAVD88	3	Z		
1976-02-20		D	72019	439.31			3	Z		
1976-04-15		D	62610		3465.45	NGVD29	1	Z		
1976-04-15		D	62611		3467.01	NAVD88	1	Z		

Date \$	Time \$? Water- level \$ date- time accuracy	? Parameter [‡] code	Water level, feet below land surface	Water level, feet above \$ specific vertical datum	Referenced vertical \$ datum	? Status	? Method of measurement	? Measuring * agency	? Source measu
1976-04-15		D	72019	173.99			1	Z		

Explanation

Section \$	Code \$	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Status	3	True value is above reported value due to local conditions
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	Α	Approved for publication Processing and review completed.

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Accessibility FOIA Privacy Policies and Notices

<u>U.S. Department of the Interior</u> | <u>U.S. Geological Survey</u> **Title: Groundwater for New Mexico: Water Levels**

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

Page Contact Information: New Mexico Water Data Maintainer

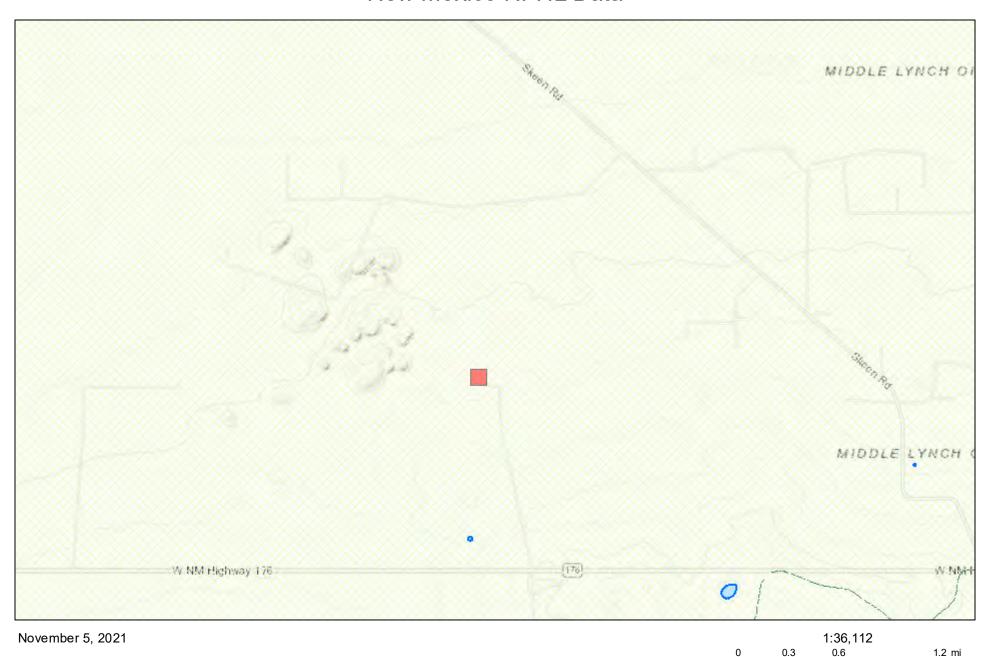
Page Last Modified: 2021-11-05 09:45:32 EDT

0.26 0.22 nadww02





New Mexico NFHL Data



2 km

0.5





Appendix C



America

ANALYTICAL REPORT

Eurofins Xenco, Midland 1211 W. Florida Ave Midland, TX 79701 Tel: (432)704-5440

Laboratory Job ID: 880-8220-1

Laboratory Sample Delivery Group: Eddy Co, NM Client Project/Site: Spruce Goose Fed 2H (10.15.21)

For:

NT Global 701 Tradewinds Blvd Midland, Texas 79706

Attn: Mike Carmona

KRAMER

Authorized for release by: 11/17/2021 11:18:51 AM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

Review your project results through

.....LINKS

Have a Question?



Visit us at:

www.eurofinsus.com/Env Released to Imaging: 5/3/2022 3:20:59 PM

Environment Testing

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: NT Global Project/Site: Spruce Goose Fed 2H (10.15.21) Laboratory Job ID: 880-8220-1 SDG: Eddy Co, NM

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	11
QC Sample Results	12
QC Association Summary	16
Lab Chronicle	19
Certification Summary	22
Method Summary	23
Sample Summary	24
Chain of Custody	25
Receipt Checklists	26

2

3

4

6

8

9

11

12

Definitions/Glossary

Client: NT Global Job ID: 880-8220-1 Project/Site: Spruce Goose Fed 2H (10.15.21)

SDG: Eddy Co, NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

LOQ

MCL

MDA

MDC

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

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)

Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level"

Minimum Detectable Concentration (Radiochemistry)

Minimum Detectable Activity (Radiochemistry)

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

PRES Presumptive **Quality Control** QC

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: NT Global

Project/Site: Spruce Goose Fed 2H (10.15.21)

Job ID: 880-8220-1

SDG: Eddy Co, NM

Job ID: 880-8220-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative 880-8220-1

Receipt

The samples were received on 11/11/2021 10:50 AM and 11/11/2021 10:54 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 -1.3°C

GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-12207 recovered under the lower control limit for < Benzene, Ethylbenzene, Toluene, m-Xylene & p-Xylene and o-Xylene>. The samples associated with this CCV were ran within passing CCV in 12 hour span; therefore, the data have been reported. The associated samples are impacted: H-1 (880-8220-1), H-2 (880-8220-2), H-3 (880-8220-3), H-4 (880-8220-4), H-5 (880-8220-5), H-6 (880-8220-6), H-7 (880-8220-7), (CCV 880-12207/33), (LCS 880-12020/1-A), (LCSD 880-12020/2-A), (MB 880-12020/5-A), (880-8220-A-1-A MS) and (880-8220-A-1-B MSD).

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-12020 and analytical batch 880-12207 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: H-1 (880-8220-1), (MB 880-12019/5-A) and (MB 880-12020/5-A). Evidence of matrix interferences is not obvious.

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

GC Semi VOA

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: (MB 880-12047/1-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

Client Sample Results

Client: NT Global Job ID: 880-8220-1 Project/Site: Spruce Goose Fed 2H (10.15.21) SDG: Eddy Co, NM

Lab Sample ID: 880-8220-1

Matrix: Solid

Client Sample ID: H-1 Date Collected: 11/10/21 00:00

Date Received: 11/11/21 10:54

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U F1	0.00201	mg/Kg		11/11/21 12:41	11/14/21 18:00	1
Toluene	<0.00201	U F1	0.00201	mg/Kg		11/11/21 12:41	11/14/21 18:00	1
Ethylbenzene	<0.00201	U F1	0.00201	mg/Kg		11/11/21 12:41	11/14/21 18:00	1
m-Xylene & p-Xylene	<0.00402	U F1	0.00402	mg/Kg		11/11/21 12:41	11/14/21 18:00	1
o-Xylene	<0.00201	U F1	0.00201	mg/Kg		11/11/21 12:41	11/14/21 18:00	1
Xylenes, Total	<0.00402	U F1	0.00402	mg/Kg		11/11/21 12:41	11/14/21 18:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

141 S1+ 70 - 130 11/11/21 12:41 11/14/21 18:00 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) 11/11/21 12:41 77 70 - 130 11/14/21 18:00

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	כ	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg	_		11/15/21 12:40	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Total TPH <50.0 U 50.0 11/16/21 09:36 mg/Kg

Method: 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg	11/11/21 15:47	11/12/21 12:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg	11/11/21 15:47	11/12/21 12:52	1
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg	11/11/21 15:47	11/12/21 12:52	1

Carrogato	witecovery quantic		. repared	rinaryzou	2
1-Chlorooctane	95	70 - 130	11/11/21 15:47	11/12/21 12:52	1
o-Terphenyl	102	70 - 130	11/11/21 15:47	11/12/21 12:52	1
Г					

Method: 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RLMDL Unit D Prepared Analyzed Dil Fac 5.01 96.8 mg/Kg 11/17/21 01:52 Chloride

Client Sample ID: H-2 Lab Sample ID: 880-8220-2 Date Collected: 11/10/21 00:00 **Matrix: Solid**

Date Received: 11/11/21 10:54

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/11/21 12:41	11/14/21 18:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/11/21 12:41	11/14/21 18:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/11/21 12:41	11/14/21 18:26	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/11/21 12:41	11/14/21 18:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/11/21 12:41	11/14/21 18:26	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/11/21 12:41	11/14/21 18:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				11/11/21 12:41	11/14/21 18:26	1
1,4-Difluorobenzene (Surr)	101		70 - 130				11/11/21 12:41	11/14/21 18:26	1

Client Sample Results

Client: NT Global Job ID: 880-8220-1 Project/Site: Spruce Goose Fed 2H (10.15.21) SDG: Eddy Co, NM

Client Sample ID: H-2 Lab Sample ID: 880-8220-2

Date Collected: 11/10/21 00:00 Matrix: Solid Date Received: 11/11/21 10:54

analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
otal BTEX	<0.00399	U	0.00399		mg/Kg			11/15/21 12:40	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
otal TPH	<49.9	U	49.9		mg/Kg			11/16/21 09:36	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sasoline Range Organics	<49.9	U	49.9		mg/Kg		11/11/21 15:47	11/12/21 13:54	
GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		11/11/21 15:47	11/12/21 13:54	•
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/11/21 15:47	11/12/21 13:54	•
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
-Chlorooctane	107		70 - 130				11/11/21 15:47	11/12/21 13:54	-
-Terphenyl	116		70 - 130				11/11/21 15:47	11/12/21 13:54	:

Client Sample ID: H-3 Lab Sample ID: 880-8220-3 Date Collected: 11/10/21 00:00 **Matrix: Solid**

4.98

44.9

mg/Kg

11/17/21 01:57

Date Received: 11/11/21 10:54

Released to Imaging: 5/3/2022 3:20:59 PM

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/11/21 12:41	11/14/21 18:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/11/21 12:41	11/14/21 18:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/11/21 12:41	11/14/21 18:52	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/11/21 12:41	11/14/21 18:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/11/21 12:41	11/14/21 18:52	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/11/21 12:41	11/14/21 18:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130				11/11/21 12:41	11/14/21 18:52	1
	97		70 ₋ 130				11/11/21 12:41	11/14/21 18:52	1
	EX Calculation	Qualifier	70 - 730 RL	MDL	Unit	D	Prepared	Analyzed	
Method: Total BTEX - Total BT	EX Calculation					_			
Method: Total BTEX - Total BT	EX Calculation			MDL	Unit mg/Kg	<u>D</u>			Dil Fac
Method: Total BTEX - Total BT Analyte Total BTEX	TEX Calculation Result <0.00400 age Organics (DR	U (GC)	RL		mg/Kg	<u> </u>	Prepared	Analyzed	Dil Fac
Method: Total BTEX - Total BT Analyte	TEX Calculation Result <0.00400 age Organics (DR	U	RL			<u>D</u>		Analyzed	Dil Fac
Method: Total BTEX - Total BT Analyte Total BTEX Method: 8015 NM - Diesel Ran	TEX Calculation Result <0.00400 age Organics (DR	O) (GC) Qualifier	RL		mg/Kg		Prepared	Analyzed 11/15/21 12:40	Dil Fac
Method: Total BTEX - Total BT Analyte Total BTEX Method: 8015 NM - Diesel Ran Analyte	Result	O) (GC) Qualifier	RL 0.00400		mg/Kg		Prepared	Analyzed 11/15/21 12:40 Analyzed	Dil Fac
Method: Total BTEX - Total BT Analyte Total BTEX Method: 8015 NM - Diesel Ran Analyte Total TPH Method: 8015B NM - Diesel Ran	Result	O) (GC) Qualifier	RL 0.00400	MDL	mg/Kg		Prepared	Analyzed 11/15/21 12:40 Analyzed	Dil Fac
Method: Total BTEX - Total BT Analyte Total BTEX Method: 8015 NM - Diesel Ran Analyte Total TPH	Result	O) (GC) Qualifier U RO) (GC) Qualifier	RL 0.00400 RL 49.8	MDL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 11/15/21 12:40 Analyzed 11/16/21 09:36	Dil Fac

Client Sample ID: H-3

Date Collected: 11/10/21 00:00

Date Received: 11/11/21 10:54

Client: NT Global
Project/Site: Spruce Goose Fed 2H (10.15.21)

Job ID: 880-8220-1

SDG: Eddy Co, NM

Lab Sample ID: 880-8220-3

Matrix: Solid

lid

4

5

7

9

11

13

Method: 8015B NM - Diesel Rang			continued)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/11/21 15:47	11/12/21 14:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				11/11/21 15:47	11/12/21 14:14	1
o-Terphenyl	100		70 - 130				11/11/21 15:47	11/12/21 14:14	1
Method: 300.0 - Anions, Ion Chr	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24.7		5.04		mg/Kg			11/17/21 02:12	1
Client Sample ID: H-4							Lab Sar	nple ID: 880-	8220-4
Date Collected: 11/10/21 00:00								•	ix: Solid
Date Received: 11/11/21 10:54									
-									
Method: 8021B - Volatile Organi	c Compounds	(GC)							
Analyte		Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199		0.00199		mg/Kg		11/11/21 12:41	11/14/21 19:17	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/11/21 12:41	11/14/21 19:17	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/11/21 12:41	11/14/21 19:17	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/11/21 12:41	11/14/21 19:17	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/11/21 12:41	11/14/21 19:17	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/11/21 12:41	11/14/21 19:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				11/11/21 12:41	11/14/21 19:17	1
1,4-Difluorobenzene (Surr)	106		70 - 130				11/11/21 12:41	11/14/21 19:17	1
- Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/15/21 12:40	1
 Method: 8015 NM - Diesel Range	Organics (DP	O) (GC)							
Analyto	•	Ouglifier	DI	MDI	Unit	n	Prepared	Analyzed	Dil Fac

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/15/21 12:40	1
- Method: 8015 NM - Diesel Range (Organics (DR	O) (GC)							
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/16/21 09:36	1
Method: 8015B NM - Diesel Range Analyte	•	RO) (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		11/11/21 15:47	11/12/21 14:34	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		11/11/21 15:47	11/12/21 14:34	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/11/21 15:47	11/12/21 14:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Surrogate 1-Chlorooctane	%Recovery	Qualifier	70 - 130				Prepared 11/11/21 15:47	Analyzed 11/12/21 14:34	Dil Fac

Analyzed

11/17/21 02:17

Prepared

RL

4.97

MDL Unit

mg/Kg

Result Qualifier

11.6

Dil Fac

Analyte

Chloride

Client: NT Global

Job ID: 880-8220-1 Project/Site: Spruce Goose Fed 2H (10.15.21)

SDG: Eddy Co, NM

Client Sample ID: H-5

Date Collected: 11/10/21 00:00 Date Received: 11/11/21 10:54

Lab Sample ID: 880-8220-5

Matrix: Solid

Method: 8021B - Volatile Orga	nic Compounds ((GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		11/11/21 12:41	11/14/21 19:43	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/11/21 12:41	11/14/21 19:43	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/11/21 12:41	11/14/21 19:43	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		11/11/21 12:41	11/14/21 19:43	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/11/21 12:41	11/14/21 19:43	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		11/11/21 12:41	11/14/21 19:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				11/11/21 12:41	11/14/21 19:43	1
1,4-Difluorobenzene (Surr)	101		70 - 130				11/11/21 12:41	11/14/21 19:43	1
- Method: Total BTEX - Total B1 Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			11/15/21 12:40	1
_ Method: 8015 NM - Diesel Rar	nge Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			11/16/21 09:36	1
- Method: 8015B NM - Diesel Ra	ange Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	П	49.8		mg/Kg		11/11/21 15:47	11/12/21 14:55	
	٠-٦٥.٥	U	40.0		1119/119		11/11/21 10.4/	11/12/21 14.00	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		11/11/21 15:47	11/12/21 14:55	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		11/11/21 15:47	11/12/21 14:55	1
C10-C28)									
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/11/21 15:47	11/12/21 14:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				11/11/21 15:47	11/12/21 14:55	1

o-Terphenyl	87	70 - 130			11/11/21 15:47	11/12/21 14:55	1
Method: 300.0 - Anions, Ion Chromatogra	aphy - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac

4.95

mg/Kg

Client Sample ID: H-6 Lab Sample ID: 880-8220-6

Date Collected: 11/10/21 00:00 Date Received: 11/11/21 10:50

15.8

Method: 8021B - Volatile Orga Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
				IVIDE					Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/11/21 12:41	11/14/21 20:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/11/21 12:41	11/14/21 20:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/11/21 12:41	11/14/21 20:09	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/11/21 12:41	11/14/21 20:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/11/21 12:41	11/14/21 20:09	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/11/21 12:41	11/14/21 20:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				11/11/21 12:41	11/14/21 20:09	1
1,4-Difluorobenzene (Surr)	107		70 - 130				11/11/21 12:41	11/14/21 20:09	1

Eurofins Xenco, Midland

11/17/21 02:31

Matrix: Solid

Chloride

Client Sample Results

Client: NT Global Job ID: 880-8220-1 Project/Site: Spruce Goose Fed 2H (10.15.21) SDG: Eddy Co, NM

Lab Sample ID: 880-8220-6 **Client Sample ID: H-6**

Date Collected: 11/10/21 00:00 Matrix: Solid Date Received: 11/11/21 10:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/15/21 12:40	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			11/16/21 09:36	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.7	U	49.7		mg/Kg		11/11/21 15:47	11/12/21 15:16	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.7	U	49.7		mg/Kg		11/11/21 15:47	11/12/21 15:16	1
C10-C28)									
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		11/11/21 15:47	11/12/21 15:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				11/11/21 15:47	11/12/21 15:16	1
o-Terphenyl	104		70 - 130				11/11/21 15:47	11/12/21 15:16	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27.4		4.95		mg/Kg			11/17/21 02:36	1

Client Sample ID: H-7 Lab Sample ID: 880-8220-7

Date Collected: 11/10/21 00:00 Date Received: 11/11/21 10:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/11/21 12:41	11/14/21 20:35	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/11/21 12:41	11/14/21 20:35	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/11/21 12:41	11/14/21 20:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/11/21 12:41	11/14/21 20:35	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/11/21 12:41	11/14/21 20:35	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/11/21 12:41	11/14/21 20:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				11/11/21 12:41	11/14/21 20:35	1
1,4-Difluorobenzene (Surr)	109		70 - 130				11/11/21 12:41	11/14/21 20:35	1
Method: Total BTEX - Total BT	TEX Calculation								
Analyte	Result	Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed	Dil Fac
	<0.00398	U	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 11/15/21 12:40	Dil Fac
Analyte Total BTEX	Result <0.00398	U		MDL MDL	mg/Kg	<u>D</u>	Prepared Prepared		
Analyte Total BTEX . Method: 8015 NM - Diesel Ran	Result <0.00398	O) (GC) Qualifier	0.00398		mg/Kg			11/15/21 12:40	1
Analyte Total BTEX Method: 8015 NM - Diesel Ran Analyte	Result <0.00398 nge Organics (DR) Result <49.8	O) (GC) Qualifier	0.00398		mg/Kg			11/15/21 12:40 Analyzed	1 Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Ran Analyte Total TPH Method: 8015B NM - Diesel Ran	nge Organics (DR) Result <49.8 ange Organics (D	O) (GC) Qualifier	0.00398		mg/Kg Unit mg/Kg			11/15/21 12:40 Analyzed	Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Ran Analyte Total TPH	nge Organics (DR) Result <49.8 ange Organics (D	O) (GC) Qualifier U RO) (GC) Qualifier	0.00398 RL 49.8	MDL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared	11/15/21 12:40 Analyzed 11/16/21 09:36	Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Ran Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics	nge Organics (DR Result <49.8 ange Organics (DI Result	O) (GC) Qualifier U RO) (GC) Qualifier U	0.00398 RL 49.8	MDL	mg/Kg Unit mg/Kg Unit	<u>D</u>	Prepared Prepared	11/15/21 12:40 Analyzed 11/16/21 09:36 Analyzed	1 Dil Fac

Eurofins Xenco, Midland

Matrix: Solid

Released to Imaging: 5/3/2022 3:20:59 PM

Date Received: 11/11/21 10:50

Client Sample Results

Client: NT Global Job ID: 880-8220-1 Project/Site: Spruce Goose Fed 2H (10.15.21) SDG: Eddy Co, NM

Client Sample ID: H-7

Date Collected: 11/10/21 00:00

Lab Sample ID: 880-8220-7

Matrix: Solid

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

١	Method: 6015B NW - Diesei Rang	je Organics (Di	KU) (GC) (ontinuea)						
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/11/21 15:47	11/12/21 15:37	1
	Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
	1-Chlorooctane	99		70 - 130				11/11/21 15:47	11/12/21 15:37	1
	o-Terphenyl	106		70 - 130				11/11/21 15:47	11/12/21 15:37	1

Method: 300.0 - Anions, Ion Chromatography - Soluble												
Analyte	Result	Qualifier	RL	MDL	Unit)	Prepared	Analyzed	Dil Fac		
Chloride	14.4		4.95		mg/Kg				11/17/21 02:41	1		

5

7

8

9

11

13

Surrogate Summary

Client: NT Global Job ID: 880-8220-1 Project/Site: Spruce Goose Fed 2H (10.15.21) SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogat
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-8220-1	H-1	141 S1+	77	
880-8220-1 MS	H-1	98	111	
880-8220-1 MSD	H-1	96	75	
880-8220-2	H-2	102	101	
880-8220-3	H-3	93	97	
880-8220-4	H-4	106	106	
880-8220-5	H-5	94	101	
880-8220-6	H-6	107	107	
880-8220-7	H-7	106	109	
LCS 880-12020/1-A	Lab Control Sample	114	116	
LCSD 880-12020/2-A	Lab Control Sample Dup	106	111	
MB 880-12019/5-A	Method Blank	61 S1-	87	
MB 880-12020/5-A	Method Blank	63 S1-	102	
Surrogate Legend				

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Prep Type: Total/NA Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
80-8220-1	H-1	95	102	
80-8220-1 MS	H-1	102	93	
80-8220-1 MSD	H-1	120	111	
80-8220-2	H-2	107	116	
80-8220-3	H-3	91	100	
80-8220-4	H-4	105	110	
80-8220-5	H-5	84	87	
880-8220-6	H-6	97	104	
880-8220-7	H-7	99	106	
.CS 880-12047/2-A	Lab Control Sample	118	118	
CSD 880-12047/3-A	Lab Control Sample Dup	115	116	
ИВ 880-12047/1-A	Method Blank	107	135 S1+	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: NT Global Job ID: 880-8220-1 Project/Site: Spruce Goose Fed 2H (10.15.21) SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-12019/5-A

Analysis Batch: 12207

Matrix: Solid

Xylenes, Total

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

Prep Batch: 12019

11/14/21 17:34

ı		IND	IVID							
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Benzene	<0.00200	U	0.00200		mg/Kg		11/11/21 12:38	11/13/21 18:50	1
I	Toluene	<0.00200	U	0.00200		mg/Kg		11/11/21 12:38	11/13/21 18:50	1
	Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/11/21 12:38	11/13/21 18:50	1
	m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/11/21 12:38	11/13/21 18:50	1
	o-Xylene	<0.00200	U	0.00200		mg/Kg		11/11/21 12:38	11/13/21 18:50	1
	Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/11/21 12:38	11/13/21 18:50	1
ı										

MB MB

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	61	S1-	70 - 130	11/11/21 12:38	11/13/21 18:50	1
1,4-Difluorobenzene (Surr)	87		70 - 130	11/11/21 12:38	11/13/21 18:50	1

Lab Sample ID: MB 880-12020/5-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Prep Batch: 12020 **Analysis Batch: 12207**

mg/Kg

MR MR Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Benzene <0.00200 U 0.00200 mg/Kg 11/11/21 12:41 11/14/21 17:34 Toluene <0.00200 U 0.00200 mg/Kg 11/11/21 12:41 11/14/21 17:34 Ethylbenzene <0.00200 U 0.00200 mg/Kg 11/11/21 12:41 11/14/21 17:34 m-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg 11/11/21 12:41 11/14/21 17:34 <0.00200 U 0.00200 o-Xylene mg/Kg 11/11/21 12:41 11/14/21 17:34 11/11/21 12:41

0.00400

MB MB

<0.00400 U

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	63	S1-	70 - 130	11/11/21 12:41	11/14/21 17:34	1
1,4-Difluorobenzene (Surr)	102		70 - 130	11/11/21 12:41	11/14/21 17:34	1

Lab Sample ID: LCS 880-12020/1-A **Client Sample ID: Lab Control Sample**

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 12207** Prep Batch: 12020

	Spike	LCS	LCS			%Rec.	
Analyte	Added	Result	Qualifier Unit	D	%Rec	Limits	
Benzene	0.100	0.1086	mg/Kg		109	70 - 130	
Toluene	0.100	0.09554	mg/Kg		96	70 - 130	
Ethylbenzene	0.100	0.09613	mg/Kg		96	70 - 130	
m-Xylene & p-Xylene	0.200	0.2124	mg/Kg		106	70 - 130	
o-Xvlene	0.100	0.1039	ma/Ka		104	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	114	70 - 130
1.4-Difluorobenzene (Surr)	116	70 - 130

Lab Sample ID: LCSD 880-12020/2-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 12207** Prep Batch: 12020

LCSD LCSD RPD Spike %Rec. Result Qualifier Analyte Added Unit %Rec Limits RPD Limit Benzene 0.100 0.09458 mg/Kg 95 70 - 130 14

QC Sample Results

Client: NT Global Job ID: 880-8220-1 Project/Site: Spruce Goose Fed 2H (10.15.21) SDG: Eddy Co, NM

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

Lab Sample ID: LCSD 880-12020/2-A

Matrix: Solid Analysis Batch: 12207 Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 12020

Spike LCSD LCSD %Rec. **RPD** Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit D Toluene 0.100 0.08370 84 70 - 130 35 mg/Kg 13 Ethylbenzene 0.100 0.08379 mg/Kg 84 70 - 130 14 35 0.200 m-Xylene & p-Xylene 0.1851 mg/Kg 93 70 130 35 14 o-Xylene 0.100 0.09241 mg/Kg 92 70 - 130 12 35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

Lab Sample ID: 880-8220-1 MS

Matrix: Solid

Client Sample ID: H-1 Prep Type: Total/NA

Prep Batch: 12020

Analysis Batch: 12207 MS MS Sample Sample Spike %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits

Benzene U F1 0.100 0.003593 F1 <0.00201 ma/Ka 70 - 130 Toluene <0.00201 UF1 0.100 0.003716 F1 4 70 - 130 mg/Kg 0.100 0.004981 F1 70 - 130 Ethylbenzene < 0.00201 UF1 mg/Kg 5 5 m-Xylene & p-Xylene <0.00402 U F1 0.201 0.01071 F1 70 - 130 mg/Kg o-Xylene <0.00201 UF1 0.100 0.008528 F1 mg/Kg 8 70 - 130

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	98	70 - 130
1,4-Difluorobenzene (Surr)	111	70 - 130

Lab Sample ID: 880-8220-1 MSD

Matrix: Solid

Analysis Batch: 12207

Client Sample ID: H-1 Prep Type: Total/NA

Prep Batch: 12020

Sample Sample MSD MSD RPD Spike %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Benzene <0.00201 U F1 0.100 <0.00200 U F1 mg/Kg 0 70 - 130 NC 35 Toluene <0.00201 UF1 0.100 <0.00200 UF1 mg/Kg 0 70 - 130 NC 35 Ethylbenzene <0.00201 UF1 0.100 <0.00200 UF1 mg/Kg 0 70 - 130 NC 35 0.200 <0.00401 UF1 0 70 - 130 NC m-Xylene & p-Xylene <0.00402 UF1 mg/Kg 35 o-Xylene <0.00201 UF1 0.100 <0.00200 UF1 mg/Kg 70 - 130 NC 35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	75		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-12047/1-A

Matrix: Solid

Analysis Batch: 12086

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

Prep Batch: 12047

MB MB Analyte Result Qualifier RL MDL Unit Prepared Analyzed <50.0 U 50.0 11/11/21 15:47 11/12/21 11:51 Gasoline Range Organics mg/Kg (GRO)-C6-C10

Client Sample ID: Method Blank

11/12/21 11:51

Client Sample ID: Lab Control Sample Dup

11/11/21 15:47

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

QC Sample Results

Client: NT Global Job ID: 880-8220-1 Project/Site: Spruce Goose Fed 2H (10.15.21) SDG: Eddy Co, NM

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

Lab Sample ID: MB 880-12047/1-A

Matrix: Solid Analysis Batch: 12086

Diesel Range Organics (Over

Oll Range Organics (Over C28-C36)

Analyte

C10-C28)

Prep Batch: 12047 MB MB Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac <50.0 U 50.0 11/11/21 15:47 11/12/21 11:51 mg/Kg

mg/Kg

<50.0 U MB MB

LCS LCS

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 107 70 - 130 11/11/21 15:47 11/12/21 11:51 70 - 130 11/11/21 15:47 11/12/21 11:51 o-Terphenyl 135 S1+

50.0

Lab Sample ID: LCS 880-12047/2-A Client Sample ID: Lab Control Sample

Matrix: Solid Analysis Batch: 12086

Prep Batch: 12047 LCS LCS Spike Analyte Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics 1000 958.1 96 70 - 130 mg/Kg (GRO)-C6-C10 1000 Diesel Range Organics (Over 1139 114 70 - 130mg/Kg

70 - 130

C10-C28)

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 70 - 130 118

o-Terphenyl 118

Lab Sample ID: LCSD 880-12047/3-A

Matrix: Solid **Analysis Batch: 12086**

Prep Batch: 12047 Spike LCSD LCSD %Rec. **RPD** Result Qualifier RPD Limit Analyte Added Unit D %Rec Limits Gasoline Range Organics 1000 1077 108 70 - 130 20 mg/Kg 12 (GRO)-C6-C10 Diesel Range Organics (Over 1000 1208 mg/Kg 121 70 - 130 6 20

C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 115 70 - 130 o-Terphenyl 116 70 - 130

Analysis Batch: 12086

Lab Sample ID: 880-8220-1 MS Client Sample ID: H-1 **Matrix: Solid** Prep Type: Total/NA

Prep Batch: 12047

%Rec. Sample Sample Spike MS MS Result Qualifier Added Qualifier %Rec Analyte Result Unit Limits <50.0 U 997 Gasoline Range Organics 958.7 94 70 - 130mg/Kg (GRO)-C6-C10 928.5 Diesel Range Organics (Over <50.0 U 997 mg/Kg 91 70 - 130

C10-C28)

MS MS Surrogate %Recovery Qualifier Limits 102 70 - 130 1-Chlorooctane 70 - 130 93 o-Terphenyl

Client: NT Global Job ID: 880-8220-1 Project/Site: Spruce Goose Fed 2H (10.15.21)

SDG: Eddy Co, NM

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

Lab Sample ID: 880-8220-1 MSD Client Sample ID: H-1

Matrix: Solid

Analysis Batch: 12086

Prep Type: Total/NA Prep Batch: 12047

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	<50.0	U	998	1048		mg/Kg		103	70 - 130	9	20	
(GRO)-C6-C10												
Diesel Range Organics (Over	<50.0	U	998	1092		mg/Kg		107	70 - 130	16	20	
040 000)												

C10-C28)

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	120		70 - 130
o-Terphenyl	111		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-12137/1-A Client Sample ID: Method Blank

Matrix: Solid Prep Type: Soluble

Analysis Batch: 12212

мв мв

Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac <5.00 U 5.00 mg/Kg 11/17/21 00:34

Lab Sample ID: LCS 880-12137/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Matrix: Solid

Analyte

Chloride

Analysis Batch: 12212

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	254.0		mg/Kg		102	90 - 110	

Lab Sample ID: LCSD 880-12137/3-A

Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Analysis Batch: 12212

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 257.2 103 90 - 110 mg/Kg

Lab Sample ID: 880-8220-2 MS Client Sample ID: H-2 **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 12212

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	1/1 0		2/10	316.4		ma/Ka		100	90 110	

Lab Sample ID: 880-8220-2 MSD

Matrix: Solid

Analysis Batch: 12212

Analysis Baton: 12212												
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	44.9		249	317.0		ma/Ka		109	90 - 110		20	

Eurofins Xenco, Midland

Client Sample ID: H-2

Prep Type: Soluble

QC Association Summary

Client: NT Global Job ID: 880-8220-1
Project/Site: Spruce Goose Fed 2H (10.15.21) SDG: Eddy Co, NM

GC VOA

Prep Batch: 12019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-12019/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 12020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-8220-1	H-1	Total/NA	Solid	5035	
880-8220-2	H-2	Total/NA	Solid	5035	
880-8220-3	H-3	Total/NA	Solid	5035	
880-8220-4	H-4	Total/NA	Solid	5035	
880-8220-5	H-5	Total/NA	Solid	5035	
880-8220-6	H-6	Total/NA	Solid	5035	
880-8220-7	H-7	Total/NA	Solid	5035	
MB 880-12020/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-12020/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-12020/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-8220-1 MS	H-1	Total/NA	Solid	5035	
880-8220-1 MSD	H-1	Total/NA	Solid	5035	

Analysis Batch: 12207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-8220-1	H-1	Total/NA	Solid	8021B	12020
880-8220-2	H-2	Total/NA	Solid	8021B	12020
880-8220-3	H-3	Total/NA	Solid	8021B	12020
880-8220-4	H-4	Total/NA	Solid	8021B	12020
880-8220-5	H-5	Total/NA	Solid	8021B	12020
880-8220-6	H-6	Total/NA	Solid	8021B	12020
880-8220-7	H-7	Total/NA	Solid	8021B	12020
MB 880-12019/5-A	Method Blank	Total/NA	Solid	8021B	12019
MB 880-12020/5-A	Method Blank	Total/NA	Solid	8021B	12020
LCS 880-12020/1-A	Lab Control Sample	Total/NA	Solid	8021B	12020
LCSD 880-12020/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	12020
880-8220-1 MS	H-1	Total/NA	Solid	8021B	12020
880-8220-1 MSD	H-1	Total/NA	Solid	8021B	12020

Analysis Batch: 12310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-8220-1	H-1	Total/NA	Solid	Total BTEX	
880-8220-2	H-2	Total/NA	Solid	Total BTEX	
880-8220-3	H-3	Total/NA	Solid	Total BTEX	
880-8220-4	H-4	Total/NA	Solid	Total BTEX	
880-8220-5	H-5	Total/NA	Solid	Total BTEX	
880-8220-6	H-6	Total/NA	Solid	Total BTEX	
880-8220-7	H-7	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 12047

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-8220-1	H-1	Total/NA	Solid	8015NM Prep	
880-8220-2	H-2	Total/NA	Solid	8015NM Prep	
880-8220-3	H-3	Total/NA	Solid	8015NM Prep	
880-8220-4	H-4	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Midland

Page 16 of 26

QC Association Summary

Client: NT Global Job ID: 880-8220-1 Project/Site: Spruce Goose Fed 2H (10.15.21) SDG: Eddy Co, NM

GC Semi VOA (Continued)

Prep Batch: 12047 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-8220-5	H-5	Total/NA	Solid	8015NM Prep	
880-8220-6	H-6	Total/NA	Solid	8015NM Prep	
880-8220-7	H-7	Total/NA	Solid	8015NM Prep	
MB 880-12047/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-12047/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-12047/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-8220-1 MS	H-1	Total/NA	Solid	8015NM Prep	
880-8220-1 MSD	H-1	Total/NA	Solid	8015NM Prep	

Analysis Batch: 12086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-8220-1	H-1	Total/NA	Solid	8015B NM	12047
880-8220-2	H-2	Total/NA	Solid	8015B NM	12047
880-8220-3	H-3	Total/NA	Solid	8015B NM	12047
880-8220-4	H-4	Total/NA	Solid	8015B NM	12047
880-8220-5	H-5	Total/NA	Solid	8015B NM	12047
880-8220-6	H-6	Total/NA	Solid	8015B NM	12047
880-8220-7	H-7	Total/NA	Solid	8015B NM	12047
MB 880-12047/1-A	Method Blank	Total/NA	Solid	8015B NM	12047
LCS 880-12047/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	12047
LCSD 880-12047/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	12047
880-8220-1 MS	H-1	Total/NA	Solid	8015B NM	12047
880-8220-1 MSD	H-1	Total/NA	Solid	8015B NM	12047

Analysis Batch: 12429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-8220-1	H-1	Total/NA	Solid	8015 NM	
880-8220-2	H-2	Total/NA	Solid	8015 NM	
880-8220-3	H-3	Total/NA	Solid	8015 NM	
880-8220-4	H-4	Total/NA	Solid	8015 NM	
880-8220-5	H-5	Total/NA	Solid	8015 NM	
880-8220-6	H-6	Total/NA	Solid	8015 NM	
880-8220-7	H-7	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 12137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-8220-1	H-1	Soluble	Solid	DI Leach	
880-8220-2	H-2	Soluble	Solid	DI Leach	
880-8220-3	H-3	Soluble	Solid	DI Leach	
880-8220-4	H-4	Soluble	Solid	DI Leach	
880-8220-5	H-5	Soluble	Solid	DI Leach	
880-8220-6	H-6	Soluble	Solid	DI Leach	
880-8220-7	H-7	Soluble	Solid	DI Leach	
MB 880-12137/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-12137/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-12137/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-8220-2 MS	H-2	Soluble	Solid	DI Leach	
880-8220-2 MSD	H-2	Soluble	Solid	DI Leach	

QC Association Summary

Client: NT Global Job ID: 880-8220-1 Project/Site: Spruce Goose Fed 2H (10.15.21) SDG: Eddy Co, NM

HPLC/IC

Analysis Batch: 12212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-8220-1	H-1	Soluble	Solid	300.0	12137
880-8220-2	H-2	Soluble	Solid	300.0	12137
880-8220-3	H-3	Soluble	Solid	300.0	12137
880-8220-4	H-4	Soluble	Solid	300.0	12137
880-8220-5	H-5	Soluble	Solid	300.0	12137
880-8220-6	H-6	Soluble	Solid	300.0	12137
880-8220-7	H-7	Soluble	Solid	300.0	12137
MB 880-12137/1-A	Method Blank	Soluble	Solid	300.0	12137
LCS 880-12137/2-A	Lab Control Sample	Soluble	Solid	300.0	12137
LCSD 880-12137/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	12137
880-8220-2 MS	H-2	Soluble	Solid	300.0	12137
880-8220-2 MSD	H-2	Soluble	Solid	300.0	12137

Client: NT Global

Project/Site: Spruce Goose Fed 2H (10.15.21)

Job ID: 880-8220-1 SDG: Eddy Co, NM

Client Sample ID: H-1

Lab Sample ID: 880-8220-1

Date Collected: 11/10/21 00:00 Date Received: 11/11/21 10:54

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	12020	11/11/21 12:41	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12207	11/14/21 18:00	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12310	11/15/21 12:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12429	11/16/21 09:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	12047	11/11/21 15:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12086	11/12/21 12:52	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	12137	11/12/21 12:50	CH	XEN MID
Soluble	Analysis	300.0		1			12212	11/17/21 01:52	CH	XEN MID

Lab Sample ID: 880-8220-2

Date Collected: 11/10/21 00:00

Client Sample ID: H-2

Matrix: Solid

Date Received: 11/11/21 10:54

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	12020	11/11/21 12:41	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12207	11/14/21 18:26	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12310	11/15/21 12:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12429	11/16/21 09:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	12047	11/11/21 15:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12086	11/12/21 13:54	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	12137	11/12/21 12:50	CH	XEN MID
Soluble	Analysis	300.0		1			12212	11/17/21 01:57	CH	XEN MID

Client Sample ID: H-3 Lab Sample ID: 880-8220-3

Date Collected: 11/10/21 00:00 Date Received: 11/11/21 10:54

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	12020	11/11/21 12:41	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12207	11/14/21 18:52	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12310	11/15/21 12:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12429	11/16/21 09:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	12047	11/11/21 15:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12086	11/12/21 14:14	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	12137	11/12/21 12:50	CH	XEN MID
Soluble	Analysis	300.0		1			12212	11/17/21 02:12	CH	XEN MID

Client Sample ID: H-4 Lab Sample ID: 880-8220-4

Date Collected: 11/10/21 00:00 Date Received: 11/11/21 10:54

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	12020	11/11/21 12:41	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12207	11/14/21 19:17	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12310	11/15/21 12:40	AJ	XEN MID

Client: NT Global

Project/Site: Spruce Goose Fed 2H (10.15.21)

Job ID: 880-8220-1 SDG: Eddy Co, NM

Lab Sample ID: 880-8220-4

Client Sample ID: H-4

Date Collected: 11/10/21 00:00 Date Received: 11/11/21 10:54

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			12429	11/16/21 09:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	12047	11/11/21 15:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12086	11/12/21 14:34	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	12137	11/12/21 12:50	CH	XEN MID
Soluble	Analysis	300.0		1			12212	11/17/21 02:17	CH	XEN MID

Client Sample ID: H-5 Lab Sample ID: 880-8220-5

Date Collected: 11/10/21 00:00 Date Received: 11/11/21 10:54

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	12020	11/11/21 12:41	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12207	11/14/21 19:43	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12310	11/15/21 12:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12429	11/16/21 09:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	12047	11/11/21 15:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12086	11/12/21 14:55	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	12137	11/12/21 12:50	CH	XEN MID
Soluble	Analysis	300.0		1			12212	11/17/21 02:31	CH	XEN MID

Client Sample ID: H-6 Lab Sample ID: 880-8220-6

Date Collected: 11/10/21 00:00 Date Received: 11/11/21 10:50

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	12020	11/11/21 12:41	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12207	11/14/21 20:09	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12310	11/15/21 12:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12429	11/16/21 09:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	12047	11/11/21 15:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12086	11/12/21 15:16	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	12137	11/12/21 12:50	CH	XEN MID
Soluble	Analysis	300.0		1			12212	11/17/21 02:36	CH	XEN MID

Client Sample ID: H-7 Lab Sample ID: 880-8220-7

Date Collected: 11/10/21 00:00 Date Received: 11/11/21 10:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	12020	11/11/21 12:41	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12207	11/14/21 20:35	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12310	11/15/21 12:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12429	11/16/21 09:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	12047	11/11/21 15:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12086	11/12/21 15:37	AJ	XEN MID

Eurofins Xenco, Midland

Page 20 of 26

Matrix: Solid

Lab Chronicle

Client: NT Global Job ID: 880-8220-1
Project/Site: Spruce Goose Fed 2H (10.15.21) SDG: Eddy Co, NM

Client Sample ID: H-7 Lab Sample ID: 880-8220-7

Date Collected: 11/10/21 00:00 Matrix: Solid
Date Received: 11/11/21 10:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	12137	11/12/21 12:50	CH	XEN MID
Soluble	Analysis	300.0		1			12212	11/17/21 02:41	CH	XEN MID

Laboratory References:

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

Eurofins Xenco, Midland

3

4

6

9

11

13

Accreditation/Certification Summary

Client: NT Global Job ID: 880-8220-1
Project/Site: Spruce Goose Fed 2H (10.15.21) SDG: Eddy Co, NM

Laboratory: Eurofins Xenco, Midland

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

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-21-22	06-30-22
The following analytes	are included in this report bu	it the laboratory is not certific	ed by the governing authority. This list ma	av include analytes for
the agency does not of	• •	are resonately to not our in	od by the governing additionty. This list me	ay include analytes for
the agency does not of Analysis Method	• •	Matrix	Analyte	ay molade analytes for
0 ,	fer certification.	•	, , ,	

Method Summary

Client: NT Global

Project/Site: Spruce Goose Fed 2H (10.15.21)

Job ID: 880-8220-1

SDG: Eddy Co, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Xenco, Midland

1

3

4

6

6

9

11

14

4/

Sample Summary

Client: NT Global

Project/Site: Spruce Goose Fed 2H (10.15.21)

Job ID: 880-8220-1 SDG: Eddy Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-8220-1	H-1	Solid	11/10/21 00:00	11/11/21 10:54
880-8220-2	H-2	Solid	11/10/21 00:00	11/11/21 10:54
880-8220-3	H-3	Solid	11/10/21 00:00	11/11/21 10:54
880-8220-4	H-4	Solid	11/10/21 00:00	11/11/21 10:54
880-8220-5	H-5	Solid	11/10/21 00:00	11/11/21 10:54
880-8220-6	H-6	Solid	11/10/21 00:00	11/11/21 10:50
880-8220-7	H-7	Solid	11/10/21 00:00	11/11/21 10:50

Δ

C

a

10

12

13

					P										5
					4 4	0	6	1/1/			ì	7	1171	,	3 6
9		1	i		٠ <u>+</u>	- 1	,	Ы				S	200		1 /20/1
ed by: (Signature) Date/Time	Received by:	ed by. (Signature)	d by. (S	Relinquishe	 	ře	Date/Time	ام		ture)	Received by (Signature)	Received		(Signature)	Relinquished by: (Signature)
	due to circumstances beyond the control orced unless previously negotiated.	s previously	ced unles	will be enfo	ese terms	lyzed. Th	ut not ana	to Xenco, b	e submitted	each samp	harge of \$5 fo	roject and a c	pplied to each p	irge of \$85.00 will be a	of Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.
	and conditions	andard terms	ssigns st	tractors. It a	nd subcon	filiates ar	nco, its ai	pany to Xe	om client cor	ase order fr	s a valid purch	les constitute	shment of samp	locument and relinquis	Notice Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for the cost of samples and shall not assume any shall
														Additoinal Comments:	Addito
			-			-	-								
			-		lacksquare		-								
						<u> </u>	-								
						×	×	_	ဝ		×		11/10/2021		H-7
						×	×		G		×		11/10/2021		H-6
						×	×	-	G		×		11/10/2021		H-5
						×	×		ဝ		×		11/10/2021		H-4
						×	×		G		×		11/10/2021		H-3
						×	×		G		×		11/10/2021		H-2
1)407						×	×		G		×		11/10/2021		H-1
Sample Comments						TP		# of Cont	Grab/ Comp	Water	Soil	Time	Date	tification	Sample Identification
NaOH+Ascorbic Acid SAPC						H 80			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		Corrected Lemperature	Corrected			Total Containers
Zn Acetate+NaOH Zn									1200	,	Temperature Reading.	Temperatu	No N/A	Yes	Tatal Containers:
			••••				BTEX	P			Factor	Correction Factor	- 1	Yes	Cooler Custody Seals.
NaHSO ₄ NABIS								ara	X		Ter ID	Thermometer ID	Z	. (Ye	Received Intact:
H ₃ PO ₄ HP						+ DR0		mete	8	Yes	Wet Ice:	Yes (No)	⊿ □		SAMPLE RECEIPT
H ₂ S0 ₄ H ₂ NaOH Na								ers	Sopm	lab il received by 4 30pm	iao a re				TG#
						VIRO.			ved by the	ne day recei	TAT starts the day received by the		CCM		Sampler's Name
_)			72 hr	7	Due Date		Eddy Co, NM	Eddy	Project Location
None NO DI Water H ₂ O								Code	Sh	✓ Rush	Routine		214872	2	Project Number
Preservative Codes	ĭ	ALYSIS REQUEST	NLYSIS	AN						Turn Around	7	15 21)	Fed 2H (10	Spruce Goose Fed 2H (10 15 21)	Project Name
ADaPT ☐ Other:	Deliverables EDD	Deli					lips con	nocophil	jacqui harris@conocophillips com		Email:			432-813-0263	Phone
Level III PST/UST TRRP Level IV	Reporting Level II Level III	Rep			6	IM 8825	Loving,NM 88256		ate ZIP	City, State ZIP)6	Midland, TX 79706	City, State ZIP
	State of Project:	Stat				ving Rd	15 W Loving Rd		5:	Address:			BLVD	701 Tradewinds BLVD	Address.
PRP Brownfields RRC uperfund	Program: UST/PST PRP	Pro					COG		Company Name:	Compa			ntai	NTG Environmental	Company Name
Work Order Comments						larris	Jacqui Harris		Bill to: (if different)	Bill to:				Mike Carmona	Project Manager
Page1 of1	A PARTY OF THE PROPERTY OF THE														
Chain of Cus	880-8220						£	200 200 200 200 200 200 200 200 200 200	(•	ENVIRONMENTAL G	
				,) A									· · · · · · · · · · · · · · · · · · ·

Page 25 of 26

11/17/2021

Revised Date 05012020 Rev 2020.1

Login Sample Receipt Checklist

Client: NT Global Job Number: 880-8220-1 SDG Number: Eddy Co, NM

Login Number: 8220 List Source: Eurofins Xenco, Midland

List Number: 1 Creator: Teel, Brianna

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	

יון דוט

2

3

4

5

8

10

4.0

13



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Midland 1211 W. Florida Ave Midland, TX 79701 Tel: (432)704-5440

Laboratory Job ID: 880-8221-1

Laboratory Sample Delivery Group: Eddy Co, NM Client Project/Site: Spruce Goose Fed 2H (10.15.21)

Revision: 1

For:

NT Global 701 Tradewinds Blvd Midland, Texas 79706

Attn: Mike Carmona

RAMER

Authorized for release by: 11/17/2021 4:12:05 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

.....LINKS

Review your project results through

Have a Question?



Visit us at:

www.eurofinsus.com/Env

Released to Imaging: 5/3/2022 3:20:59 PM

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: NT Global Project/Site: Spruce Goose Fed 2H (10.15.21) Laboratory Job ID: 880-8221-1 SDG: Eddy Co, NM

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	8
QC Sample Results	9
QC Association Summary	13
Lab Chronicle	15
Certification Summary	16
Method Summary	17
Sample Summary	18
Chain of Custody	19
Receipt Checklists	20

2

3

4

5

7

9

10

12

13

Definitions/Glossary

Client: NT Global Job ID: 880-8221-1 Project/Site: Spruce Goose Fed 2H (10.15.21) SDG: Eddy Co, NM

Qualifiers

GC VOA

Qualifier **Qualifier Description** F1 MS and/or MSD recovery exceeds control limits. S1-Surrogate recovery exceeds control limits, low biased. S1+ Surrogate recovery exceeds control limits, high biased. U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description** S1+ Surrogate recovery exceeds control limits, high biased. Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description** U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report. Listed under the "D" column to designate that the result is reported on a dry weight basis %R Percent Recovery

CFL Contains Free Liquid Colony Forming Unit **CFU** Contains No Free Liquid CNF

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)

EPA recommended "Maximum Contaminant Level" MCL MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit MI 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

Practical Quantitation Limit PQL

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: NT Global

Project/Site: Spruce Goose Fed 2H (10.15.21)

Job ID: 880-8221-1

SDG: Eddy Co, NM

Job ID: 880-8221-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative 880-8221-1

REVISION

The report being provided is a revision of the original report sent on 11/17/2021. The report (revision 1) is being revised due to Diltuions are incorrect on original report.

Report revision history

Receipt

The samples were received on 11/11/2021 10:56 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 -1.3°C

GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-12207 recovered under the lower control limit for < Benzene, Ethylbenzene, Toluene, m-Xylene & p-Xylene and o-Xylene>. The samples associated with this CCV were ran within passing CCV in 12 hour span; therefore, the data have been reported. The associated samples are impacted: (CCV 880-12207/33), (LCS 880-12020/1-A), (LCSD 880-12020/2-A), (MB 880-12020/5-A), (880-8220-A-1-C), (880-8220-A-1-A MS) and (880-8220-A-1-B MSD).

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-12020 and analytical batch 880-12207 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-1 (0-6") (880-8221-1), (MB 880-12019/5-A), (MB 880-12020/5-A) and (880-8220-A-1-C). Evidence of matrix interferences is not obvious.

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: S-2 (0-6") (880-8221-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: (MB 880-12047/1-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

Client: NT Global Job ID: 880-8221-1

Project/Site: Spruce Goose Fed 2H (10.15.21) SDG: Eddy Co, NM

Client Sample ID: S-1 (0-6") Lab Sample ID: 880-8221-1 Date Collected: 11/10/21 00:00 **Matrix: Solid** Date Received: 11/11/21 10:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0201		0.00200		mg/Kg		11/11/21 12:41	11/15/21 10:43	1
Toluene	0.159		0.00200		mg/Kg		11/11/21 12:41	11/15/21 10:43	1
Ethylbenzene	0.0551		0.00200		mg/Kg		11/11/21 12:41	11/15/21 10:43	1
m-Xylene & p-Xylene	0.0601		0.00399		mg/Kg		11/11/21 12:41	11/15/21 10:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/11/21 12:41	11/15/21 10:43	1
Xylenes, Total	0.0601		0.00399		mg/Kg		11/11/21 12:41	11/15/21 10:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130				11/11/21 12:41	11/15/21 10:43	1
1,4-Difluorobenzene (Surr)	99		70 - 130				11/11/21 12:41	11/15/21 10:43	1
Method: Total BTEX - Total B	TEX Calcula	tion							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.294		0.00399		mg/Kg			11/15/21 12:40	1
Method: 8015 NM - Diesel Rar	•		GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	16000		499		mg/Kg			11/16/21 09:36	1
Method: 8015B NM - Diesel R	ange Organ	ics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<499	U	499		mg/Kg		11/11/21 15:47	11/12/21 15:58	10
Diesel Range Organics (Over C10-C28)	16000		499		mg/Kg		11/11/21 15:47	11/12/21 15:58	10
Oll Range Organics (Over C28-C36)	<499	U	499		mg/Kg		11/11/21 15:47	11/12/21 15:58	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				11/11/21 15:47	11/12/21 15:58	10
o-Terphenyl	116		70 - 130				11/11/21 15:47	11/12/21 15:58	10
Method: 300.0 - Anions, Ion C	hromatogra	phy - Solu	ıble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: S-2 (0-6") Lab Sample ID: 880-8221-2 Date Collected: 11/10/21 00:00 **Matrix: Solid**

Date Received: 11/11/21 10:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00676		0.00202		mg/Kg		11/11/21 12:41	11/15/21 11:10	1
Toluene	0.0775		0.00202		mg/Kg		11/11/21 12:41	11/15/21 11:10	1
Ethylbenzene	0.0566		0.00202		mg/Kg		11/11/21 12:41	11/15/21 11:10	1
m-Xylene & p-Xylene	0.0558		0.00403		mg/Kg		11/11/21 12:41	11/15/21 11:10	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/11/21 12:41	11/15/21 11:10	1
Xylenes, Total	0.0558		0.00403		mg/Kg		11/11/21 12:41	11/15/21 11:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130				11/11/21 12:41	11/15/21 11:10	1
1,4-Difluorobenzene (Surr)	109		70 - 130				11/11/21 12:41	11/15/21 11:10	1

Client Sample ID: S-2 (0-6")

Lab Sample ID: 880-8221-2 **Matrix: Solid**

Date Collected: 11/10/21 00:00 Date Received: 11/11/21 10:56

Method: Total BTEX -	Total BTEX Calcula	tion							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.197		0.00403		mg/Kg			11/15/21 12:40	1
Method: 8015 NM - Die	esel Range Organic	s (DRO) (G	iC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	16300		498		mg/Kg			11/16/21 09:36	1

									-
Method: 8015B NM - Diesel R									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<498	U	498		mg/Kg		11/11/21 15:47	11/12/21 16:18	10
(GRO)-C6-C10									
Diesel Range Organics (Over	16300		498		mg/Kg		11/11/21 15:47	11/12/21 16:18	10
C10-C28)									
Oll Range Organics (Over C28-C36)	<498	U	498		mg/Kg		11/11/21 15:47	11/12/21 16:18	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				11/11/21 15:47	11/12/21 16:18	10
o-Terphenyl	131	S1+	70 - 130				11/11/21 15:47	11/12/21 16:18	10

Method: 300.0 - Anions, Ion Chromatography - Soluble								
	Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	35100	249	mg/Kg			11/17/21 02:51	50

Lab Sample ID: 880-8221-3 Client Sample ID: S-3 (0-6") Date Collected: 11/10/21 00:00 **Matrix: Solid**

Date Received: 11/11/21 10:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00709		0.00200		mg/Kg		11/11/21 12:41	11/15/21 11:36	1
Toluene	0.0683		0.00200		mg/Kg		11/11/21 12:41	11/15/21 11:36	1
Ethylbenzene	0.0919		0.00200		mg/Kg		11/11/21 12:41	11/15/21 11:36	1
m-Xylene & p-Xylene	0.0530		0.00401		mg/Kg		11/11/21 12:41	11/15/21 11:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/11/21 12:41	11/15/21 11:36	1
Xylenes, Total	0.0530		0.00401		mg/Kg		11/11/21 12:41	11/15/21 11:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74		70 - 130				11/11/21 12:41	11/15/21 11:36	1
1,4-Difluorobenzene (Surr) Method: Total BTEX - Total I	120 BTEX Calcula	tion	70 - 130				11/11/21 12:41	11/15/21 11:36	•
Method: Total BTEX - Total I	BTEX Calcula	tion Qualifier	70 ₋ 130	MDL	Unit	D	11/11/21 12:41 Prepared	11/15/21 11:36 Analyzed	Dil Fac
	BTEX Calcula			MDL	Unit mg/Kg	<u>D</u>			Dil Fac
Method: Total BTEX - Total I Analyte	BTEX Calcula Result 0.220	Qualifier	RL 0.00401	MDL		<u> </u>		Analyzed	Dil Fac
Method: Total BTEX - Total I Analyte Total BTEX Method: 8015 NM - Diesel R	BTEX Calcula Result 0.220 ange Organic	Qualifier	RL 0.00401			<u>D</u>		Analyzed	Dil Fac
Method: Total BTEX - Total I Analyte Total BTEX Method: 8015 NM - Diesel R Analyte	BTEX Calcula Result 0.220 ange Organic	Qualifier s (DRO) (0	RL 0.00401		mg/Kg	— =	Prepared	Analyzed 11/15/21 12:40	1
Method: Total BTEX - Total I Analyte Total BTEX	BTEX Calcula Result 0.220 ange Organic Result 15100	Qualifier S (DRO) (O	RL 0.00401 — GC) RL 499		mg/Kg Unit	— =	Prepared	Analyzed 11/15/21 12:40 Analyzed	1
Method: Total BTEX - Total I Analyte Total BTEX Method: 8015 NM - Diesel R Analyte Total TPH Method: 8015B NM - Diesel	BTEX Calcula Result 0.220 ange Organic Result 15100 Range Organic	Qualifier S (DRO) (O	RL 0.00401 — GC) RL 499	MDL	mg/Kg Unit	— =	Prepared	Analyzed 11/15/21 12:40 Analyzed	Dil Fac
Method: Total BTEX - Total I Analyte Total BTEX Method: 8015 NM - Diesel R Analyte Total TPH	BTEX Calcula Result 0.220 ange Organic Result 15100 Range Organic	Qualifier s (DRO) (O Qualifier ics (DRO) Qualifier	RL 0.00401 GC) RL 499 (GC)	MDL	mg/Kg Unit mg/Kg	<u></u> <u>D</u>	Prepared Prepared	Analyzed 11/15/21 12:40 Analyzed 11/16/21 09:36	1

Eurofins Xenco, Midland

Client Sample Results

Client: NT Global Job ID: 880-8221-1 Project/Site: Spruce Goose Fed 2H (10.15.21) SDG: Eddy Co, NM

Lab Sample ID: 880-8221-3 Client Sample ID: S-3 (0-6")

Date Collected: 11/10/21 00:00 **Matrix: Solid** Date Received: 11/11/21 10:56

Method: 8015B NM - Diesel R	ange Organ	ics (DRO)	(GC) (Contin	ued)				
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<499	U	499	mg/Kg		11/11/21 15:47	11/12/21 16:39	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130			11/11/21 15:47	11/12/21 16:39	10
o-Terphenyl	128		70 - 130			11/11/21 15:47	11/12/21 16:39	10

Method: 300.0 - Anions, Ion Chromatography - Soluble								
	Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	45600	250	mg/Kg			11/17/21 02:56	50

Surrogate Summary

Client: NT Global Job ID: 880-8221-1 SDG: Eddy Co, NM Project/Site: Spruce Goose Fed 2H (10.15.21)

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

			Percer	t Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-8220-A-1-A MS	Matrix Spike	98	111	
880-8220-A-1-B MSD	Matrix Spike Duplicate	96	75	
880-8221-1	S-1 (0-6")	133 S1+	99	
880-8221-2	S-2 (0-6")	97	109	
880-8221-3	S-3 (0-6")	74	120	
LCS 880-12020/1-A	Lab Control Sample	114	116	
LCSD 880-12020/2-A	Lab Control Sample Dup	106	111	
MB 880-12019/5-A	Method Blank	61 S1-	87	
MB 880-12020/5-A	Method Blank	63 S1-	102	

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Prep Type: Total/NA **Matrix: Solid**

			Percent	Surrogate Recovery (Acceptance Limits)
		1001	ОТРН1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-8220-A-1-E MS	Matrix Spike	102	93	
880-8220-A-1-F MSD	Matrix Spike Duplicate	120	111	
880-8221-1	S-1 (0-6")	94	116	
880-8221-2	S-2 (0-6")	112	131 S1+	
880-8221-3	S-3 (0-6")	114	128	
LCS 880-12047/2-A	Lab Control Sample	118	118	
LCSD 880-12047/3-A	Lab Control Sample Dup	115	116	
MB 880-12047/1-A	Method Blank	107	135 S1+	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Xenco, Midland

QC Sample Results

Client: NT Global Job ID: 880-8221-1 Project/Site: Spruce Goose Fed 2H (10.15.21) SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-12019/5-A

Lab Sample ID: MB 880-12020/5-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 12207

Analysis Batch: 12207

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 12019

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/11/21 12:38	11/13/21 18:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/11/21 12:38	11/13/21 18:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/11/21 12:38	11/13/21 18:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/11/21 12:38	11/13/21 18:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/11/21 12:38	11/13/21 18:50	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/11/21 12:38	11/13/21 18:50	1

MB MB

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	61	S1-	70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

11/11/21 12:38 11/13/21 18:50

11/11/21 12:38 11/13/21 18:50

Analyzed

Client Sample ID: Method Blank

Prep Type: Total/NA

Prepared

Prep Batch: 12020

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/11/21 12:41	11/14/21 17:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/11/21 12:41	11/14/21 17:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/11/21 12:41	11/14/21 17:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/11/21 12:41	11/14/21 17:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/11/21 12:41	11/14/21 17:34	1
Xvlenes, Total	< 0.00400	U	0.00400		ma/Ka		11/11/21 12:41	11/14/21 17:34	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	63	S1-	70 - 130	11/11/21 12:41	11/14/21 17:34	1
1,4-Difluorobenzene (Surr)	102		70 - 130	11/11/21 12:41	11/14/21 17:34	1

Lab Sample ID: LCS 880-12020/1-A

Matrix: Solid

Analysis Batch: 12207

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Client Sample ID: Lab Control Sample Dup

Prep Batch: 12020

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1086		mg/Kg		109	70 - 130	
Toluene	0.100	0.09554		mg/Kg		96	70 - 130	
Ethylbenzene	0.100	0.09613		mg/Kg		96	70 - 130	
m-Xylene & p-Xylene	0.200	0.2124		mg/Kg		106	70 - 130	
o-Xylene	0.100	0.1039		mg/Kg		104	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	114	70 - 130
1,4-Difluorobenzene (Surr)	116	70 - 130

Lab Sample ID: LCSD 880-12020/2-A

N

ı	Matrix: Solid							Prep Ty	pe: Tot	al/NA
l	Analysis Batch: 12207							Prep E	Batch: 1	12020
l		Spike	LCSD	LCSD				%Rec.		RPD
l	Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
	Benzene	 0.100	0.09458	-	mg/Kg		95	70 - 130	14	35

Eurofins Xenco, Midland

Page 9 of 20

1

Dil Fac

QC Sample Results

Client: NT Global Job ID: 880-8221-1 Project/Site: Spruce Goose Fed 2H (10.15.21) SDG: Eddy Co, NM

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

Lab Sample ID: LCSD 880-12020/2-A

Matrix: Solid

Analysis Batch: 12207

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 12020

LCSD LCSD **RPD** Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Toluene 0.100 0.08370 mg/Kg 84 70 - 130 13 35 Ethylbenzene 0.100 0.08379 mg/Kg 84 70 - 13014 35 0.200 0.1851 93 70 - 130 35 m-Xylene & p-Xylene mg/Kg 14 35 o-Xylene 0.100 0.09241 mg/Kg 92 70 - 130 12

LCSD LCSD

Surrogate	%Recovery Qualifier	' Limits
4-Bromofluorobenzene (Surr)	106	70 - 130
1,4-Difluorobenzene (Surr)	111	70 - 130

Lab Sample ID: 880-8220-A-1-A MS **Client Sample ID: Matrix Spike**

Matrix: Solid

o-Xylene

Analysis Batch: 12207

Prep Type: Total/NA

0.008528 F1

mg/Kg

Prep Batch: 12020

Sample Sample Spike MS MS %Rec. Result Qualifier Result Qualifier Added D %Rec Limits Analyte Unit Benzene <0.00201 U F1 0.100 0.003593 F1 70 - 130 mg/Kg Toluene <0.00201 UF1 0.100 0.003716 F1 mg/Kg 4 70 - 130 Ethylbenzene <0.00201 UF1 0.100 0.004981 F1 mg/Kg 5 70 - 130 0.201 5 m-Xylene & p-Xylene <0.00402 U F1 0.01071 F1 mg/Kg 70 - 130

0.100

MS MS

<0.00201 UF1

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

Lab Sample ID: 880-8220-A-1-B MSD

Matrix: Solid

Analysis Batch: 12207

Client Sample ID: Matrix Spike Duplicate

8

70 - 130

Prep Type: Total/NA

Prep Batch: 12020

Spike MSD MSD %Rec. **RPD** Sample Sample Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits **RPD** Limit 70 - 130 Benzene <0.00201 UF1 0.100 <0.00200 UF1 mg/Kg NC 35 Toluene <0.00201 UF1 0.100 <0.00200 UF1 mg/Kg 0 70 - 130 NC 35 Ethylbenzene <0.00201 UF1 0.100 <0.00200 UF1 mg/Kg 0 70 - 130 NC 35 0.200 0 70 - 130 NC 35 m-Xylene & p-Xylene <0.00402 UF1 <0.00401 UF1 mg/Kg o-Xylene <0.00201 UF1 0.100 <0.00200 UF1 0 70 - 130 NC 35 mq/Kq

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	75		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-12047/1-A

Matrix: Solid

Analysis Batch: 12086

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

Prep Batch: 12047

MB MB Result Qualifier MDL Unit Analyte RL Prepared Analyzed Dil Fac Gasoline Range Organics <50.0 U 50.0 mg/Kg 11/11/21 15:47 11/12/21 11:51

(GRO)-C6-C10

Eurofins Xenco, Midland

Page 10 of 20 Released to Imaging: 5/3/2022 3:20:59 PM

Client: NT Global Project/Site: Spruce Goose Fed 2H (10.15.21)

Job ID: 880-8221-1

SDG: Eddy Co, NM

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

Lab Sample ID: MB 880-12047/1-A **Matrix: Solid**

Lab Sample ID: LCS 880-12047/2-A

Analysis Batch: 12086

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

Prep Batch: 12047

ı		MB	MB							
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/11/21 15:47	11/12/21 11:51	1
	Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/11/21 15:47	11/12/21 11:51	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107	70 - 130	11/11/21 15:47	11/12/21 11:51	1
o-Terphenyl	135 S1+	70 - 130	11/11/21 15:47	11/12/21 11:51	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analysis Batch: 12086 Prep Batch: 12047 LCS LCS Spike %Rec. Added Result Qualifier Limits Analyte Unit D %Rec Gasoline Range Organics 1000 958.1 mg/Kg 96 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 1000 1139 mg/Kg 114 70 - 130

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	118		70 - 130
o-Terphenyl	118		70 - 130

Lab Sample ID: LCSD 880-12047/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Matrix: Solid

C10-C28)

Analysis Batch: 12086

Prep Type: Total/NA Prep Batch: 12047

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1077		mg/Kg		108	70 - 130	12	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	1208		mg/Kg		121	70 - 130	6	20
C10-C28)									

LCSD LCSD %Recovery Qualifier Surrogate Limits 1-Chlorooctane 115 70 - 130 o-Terphenyl 116 70 - 130

Lab Sample ID: 880-8220-A-1-E MS

Matrix: Solid

Analysis Batch: 12086

Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 12047

-	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	958.7		mg/Kg		94	70 - 130	
Diesel Range Organics (Over	<50.0	U	997	928.5		mg/Kg		91	70 - 130	

C10-C28)

	IVIS	IVIS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	102		70 - 130
o-Terphenyl	93		70 - 130

Eurofins Xenco, Midland

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

Lab Sample ID: 880-8220-A-1-F MSD **Client Sample ID: Matrix Spike Duplicate Matrix: Solid** Prep Type: Total/NA Prep Batch: 12047 **Analysis Batch: 12086**

Sample Sample Spike MSD MSD %Rec. **RPD** Result Qualifier Result Qualifier Added Limits RPD Limit Analyte Unit %Rec <50.0 U Gasoline Range Organics 998 1048 mg/Kg 103 70 - 130 9 20 (GRO)-C6-C10 998 1092 107 Diesel Range Organics (Over <50.0 U mg/Kg 70 - 13016 20

C10-C28)

MSD MSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 70 - 130 120 o-Terphenyl 111 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-12137/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 12212

MB MB **MDL** Unit Result Qualifier RL Analyte Prepared Dil Fac Analyzed 5.00 Chloride <5.00 U mg/Kg 11/17/21 00:34

Lab Sample ID: LCS 880-12137/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 12212

Spike LCS LCS %Rec. Analyte Added Result Qualifier Limits Unit D %Rec Chloride 250 254.0 102 90 - 110 mg/Kg

Lab Sample ID: LCSD 880-12137/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 12212

LCSD LCSD RPD Spike %Rec. **Analyte** Added Result Qualifier Unit D %Rec Limits RPD Limit Chloride 250 257.2 103 90 - 110 mg/Kg

Lab Sample ID: 880-8220-A-2-G MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 12212

Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 90 - 110 Chloride 44 9 249 316.4 mg/Kg 109

Lab Sample ID: 880-8220-A-2-H MSD **Client Sample ID: Matrix Spike Duplicate Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 12212

MSD MSD **RPD** Sample Sample Spike %Rec. Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit 249 317.0 109 90 - 110 Chloride 44.9 mg/Kg

Eurofins Xenco, Midland

Prep Type: Soluble

QC Association Summary

Client: NT Global Project/Site: Spruce Goose Fed 2H (10.15.21) Job ID: 880-8221-1 SDG: Eddy Co, NM

GC VOA

Prep Batch: 12019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-12019/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 12020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-8221-1	Total/NA Solid		Solid	5035	
880-8221-2	S-2 (0-6")	Total/NA	Solid	5035	
880-8221-3	S-3 (0-6")	Total/NA	Solid	5035	
MB 880-12020/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-12020/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-12020/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-8220-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-8220-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 12207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-8221-1	S-1 (0-6")	Total/NA	Solid	8021B	12020
880-8221-2	S-2 (0-6")	Total/NA	Solid	8021B	12020
880-8221-3	S-3 (0-6")	Total/NA	Solid	8021B	12020
MB 880-12019/5-A	Method Blank	Total/NA	Solid	8021B	12019
MB 880-12020/5-A	Method Blank	Total/NA	Solid	8021B	12020
LCS 880-12020/1-A	Lab Control Sample	Total/NA	Solid	8021B	12020
LCSD 880-12020/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	12020
880-8220-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	12020
880-8220-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	12020

Analysis Batch: 12313

Lab Sample ID 880-8221-1	Client Sample ID S-1 (0-6")	Prep Type Total/NA	Matrix Solid	Method Total BTEX	Prep Batch
880-8221-2	S-2 (0-6")	Total/NA	Solid	Total BTEX	
880-8221-3	S-3 (0-6")	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 12047

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-8221-1	S-1 (0-6")	Total/NA	Solid	8015NM Prep	
880-8221-2 S-2 (0-6")		Total/NA	Solid	8015NM Prep	
880-8221-3	S-3 (0-6")	Total/NA	Solid	8015NM Prep	
MB 880-12047/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-12047/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-12047/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-8220-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-8220-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 12086

Released to Imaging: 5/3/2022 3:20:59 PM

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-8221-1	S-1 (0-6")	Total/NA	Solid	8015B NM	12047
880-8221-2	S-2 (0-6")	Total/NA	Solid	8015B NM	12047
880-8221-3	S-3 (0-6")	Total/NA	Solid	8015B NM	12047
MB 880-12047/1-A	Method Blank	Total/NA	Solid	8015B NM	12047
LCS 880-12047/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	12047

Eurofins Xenco, Midland

Page 13 of 20

QC Association Summary

Client: NT Global Job ID: 880-8221-1
Project/Site: Spruce Goose Fed 2H (10.15.21) SDG: Eddy Co, NM

GC Semi VOA (Continued)

Analysis Batch: 12086 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-12047/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	12047
880-8220-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	12047
880-8220-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	12047

Analysis Batch: 12429

Lab Sample ID 880-8221-1	Client Sample ID S-1 (0-6")	Prep Type Total/NA	Matrix Solid	Method 8015 NM	Prep Batch
880-8221-2	S-2 (0-6")	Total/NA	Solid	8015 NM	
880-8221-3	S-3 (0-6")	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 12137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-8221-1	S-1 (0-6")	Soluble	Solid	DI Leach	
880-8221-2	S-2 (0-6")	Soluble	Solid	DI Leach	
880-8221-3	S-3 (0-6")	Soluble	Solid	DI Leach	
MB 880-12137/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-12137/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-12137/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-8220-A-2-G MS	Matrix Spike	Soluble	Solid	DI Leach	
880-8220-A-2-H MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 12212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-8221-1	S-1 (0-6")	Soluble	Solid	300.0	12137
880-8221-2	S-2 (0-6")	Soluble	Solid	300.0	12137
880-8221-3	S-3 (0-6")	Soluble	Solid	300.0	12137
MB 880-12137/1-A	Method Blank	Soluble	Solid	300.0	12137
LCS 880-12137/2-A	Lab Control Sample	Soluble	Solid	300.0	12137
LCSD 880-12137/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	12137
880-8220-A-2-G MS	Matrix Spike	Soluble	Solid	300.0	12137
880-8220-A-2-H MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	12137

Eurofins Xenco, Midland

1

2

Λ

5

Q

4 6

11

13

14

Date Collected: 11/10/21 00:00 Date Received: 11/11/21 10:56

h	Prepared			
ber	or Analyzed	Analyst	Lab	
20	11/11/21 12:41	KL	XEN MID	
)7	11/15/21 10:43	KL	XEN MID	
	44/45/04 40 40		VENIAND	

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	12020	11/11/21 12:41	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12207	11/15/21 10:43	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12313	11/15/21 12:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12429	11/16/21 09:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	12047	11/11/21 15:47	DM	XEN MID
Total/NA	Analysis	8015B NM		10			12086	11/12/21 15:58	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	12137	11/12/21 12:50	СН	XEN MID
Soluble	Analysis	300.0		20			12212	11/17/21 02:46	CH	XEN MID

Lab Sample ID: 880-8221-2

Date Collected: 11/10/21 00:00 Date Received: 11/11/21 10:56

Client Sample ID: S-2 (0-6")

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	12020	11/11/21 12:41	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12207	11/15/21 11:10	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12313	11/15/21 12:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12429	11/16/21 09:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	12047	11/11/21 15:47	DM	XEN MID
Total/NA	Analysis	8015B NM		10			12086	11/12/21 16:18	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	12137	11/12/21 12:50	CH	XEN MID
Soluble	Analysis	300.0		50			12212	11/17/21 02:51	CH	XEN MID

Client Sample ID: S-3 (0-6") Lab Sample ID: 880-8221-3 Date Collected: 11/10/21 00:00 **Matrix: Solid**

Date Received: 11/11/21 10:56

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035		· 	4.99 g	5 mL	12020	11/11/21 12:41	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12207	11/15/21 11:36	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12313	11/15/21 12:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12429	11/16/21 09:36	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	12047	11/11/21 15:47	DM	XEN MID
Total/NA	Analysis	8015B NM		10			12086	11/12/21 16:39	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	12137	11/12/21 12:50	CH	XEN MID
Soluble	Analysis	300.0		50			12212	11/17/21 02:56	CH	XEN MID

Laboratory References:

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

Eurofins Xenco, Midland

Accreditation/Certification Summary

Client: NT Global
Project/Site: Spruce Goose Fed 2H (10.15.21)

Job ID: 880-8221-1 SDG: Eddy Co, NM

Laboratory: Eurofins Xenco, Midland

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

Authority	Pro	ogram	Identification Number	Expiration Date
Texas	NE	LAP	T104704400-21-22	06-30-22
the agency does not	offer certification.	•	not certified by the governing authority.	This list may include
,	•	Matrix	Analyte	This list may include
the agency does not	offer certification.	•	, , ,	This list may include

4

6

Q

10

11

13

14

Method Summary

Client: NT Global

Project/Site: Spruce Goose Fed 2H (10.15.21)

Job ID: 880-8221-1

SDG: Eddy Co, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: NT Global
Project/Site: Spruce Goose Fed 2H (10.15.21)

Job ID: 880-8221-1 SDG: Eddy Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-8221-1	S-1 (0-6")	Solid	11/10/21 00:00	11/11/21 10:56
880-8221-2	S-2 (0-6")	Solid	11/10/21 00:00	11/11/21 10:56
880-8221-3	S-3 (0-6")	Solid	11/10/21 00:00	11/11/21 10:56

3

4

5

7

10

11

13

14

Relinquished by (Signature)

ところ

Received by: (Signature)

Date/Time

Relinquished by (Signature)

Received by. (Signature)

Revised Date 05012020 Rev 2020.

10:50

of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$8.00 will be applied to each project and a charge of \$6 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated. Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard ternis and conditions



					A DESCRIPTION OF THE PERSON OF		Tonomore The Control of the Control								l	l							Page1 of1
Project Manager	Mike Carmona				Bill to: (if different)	erent)		Jacqui Harris	Harris									and the contract	٠	Vork	Orde	ç S	Work Order Comments
Company Name:	NTG Environmental	ntal	***************************************		Company Name	lame:	L	COC							F	100fa	•		ĥ		þ		Program: UST/PST PRP Brownfields RRC Inperfund
Address.	701 Tradewinds BLVD	BLVD			Address.		1	15 W Loving Rd	oving	₽ Z					ري ري	State of Project:	f Pro	ject:	[[[
City, State ZIP	Midland, TX 79706	706			City, State ZIP	ZIP		Loving,NM 88256	NM 88	1256					D D	eporti	ng Le	vel =	<u></u>	evel II	_ _	U/TS	Reporting Level III
Phone:	432-813-0263			Email	Jacqui.harris@conocophillips.com	rıs@con	ocophill	ps.co	B						0	Deliverables EDD	ables	EDI	П		ΑD	ADaPT 🗆	□ Other
Project Name:	Spruce Goose Fed 2H (10 15 21)	∍ Fed 2H (10	15 21)	Tum	Turn Around						0.0	ANA	<u>کے</u>	LYSIS REQUEST	<u> </u>	S				, and 1	1	444	Preservative Codes
Project Number		214872		Routine	☑ Rush		Pres.		_					_				in the second		\exists		z l	None NO DI Water H.O
Project Location	Edc	Eddy Co, NM		Due Date	72 hr				_					-	-	_						\perp	_
Sampler's Name:		CCM		TAT starts the day received by the	day received	by the			RO)													I (
P0#)	lab if recei	lab if received by 4 30pm	3,	\$		+ M													Ţ. :	•
SAMPLE RECEIPT		⊺թգրթ Blank։	Yes (No)	Wet lce:	l (sey)	8	ieter	IB	DRO	0 0												Į.	Ü
Received Intact:	(Yes	No	Thermometer ID:	eter ID:	$I \cup I$	OC.	ran	802 ⁻) + C	e 30													NaHSO, NABIS
Cooler Custody Seals	Yes	No (N/A)	Correction Factor) Factor			Pa	EX	GR	orid											но		Na ₂ S ₂ O ₃ NaSO ₃
Sample Custody Seals:	Yes	No N/A	Temperat	Temperature Reading:	- 2	2		Bī	5M (Chl			,,,									7	Zn Acetate+NaOH Zn
Total Containers.			Corrected	Corrected Temperature.	1 3				801													z	NaOH+Ascorbic Acid SAPC
Sample Identification	ilication	Date	Time	Soll	Water	Grab/ Comp	# of Cont		TPH														Sample Comments
S-1 (0-6")	0")	11/10/2021		×		G	1	×	×	×													(3) 402
S-2 (0-6")	("	11/10/2021		×		G		×	×	×													
S-3 (0-6")	6")	11/10/2021		×		G		×	×	×										\vdash			
													_							_		_	
								_					_									<u> </u>	
													_	-	_					-	_	_	
																				_	_		
Additoi	Additoinal Comments:																						

Date/Time

Page 19 of 20

880-8221 Chain of Custody

Login Sample Receipt Checklist

Client: NT Global Job Number: 880-8221-1 SDG Number: Eddy Co, NM

Login Number: 8221 List Source: Eurofins Xenco, Midland

List Number: 1 Creator: Teel, Brianna

<6mm (1/4").

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	N/A	

2

3

4

6

0

10

4.6

13

14



December 10, 2021

MIKE CARMONA

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: SPRUCE GOOSE FED 2H

Enclosed are the results of analyses for samples received by the laboratory on 12/08/21 14:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

NTG ENVIRONMENTAL MIKE CARMONA 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Received: 12/08/2021 Sampling Date: 12/06/2021

Reported: 12/10/2021 Sampling Type: Soil

Project Name: SPRUCE GOOSE FED 2H Sampling Condition: Cool & Intact
Project Number: 214872 (10.15.21) Sample Received By: Tamara Oldaker

Project Location: COG - EDDY CO NM

Sample ID: T - 1 (1') (H213546-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2021	ND	1.83	91.5	2.00	11.4	
Toluene*	<0.050	0.050	12/09/2021	ND	1.94	96.8	2.00	5.99	
Ethylbenzene*	<0.050	0.050	12/09/2021	ND	1.95	97.4	2.00	3.98	
Total Xylenes*	<0.150	0.150	12/09/2021	ND	5.91	98.5	6.00	4.28	
Total BTEX	<0.300	0.300	12/09/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/09/2021	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2021	ND	189	94.3	200	15.9	
DRO >C10-C28*	12.6	10.0	12/10/2021	ND	207	104	200	4.87	
EXT DRO >C28-C36	<10.0	10.0	12/10/2021	ND					
Surrogate: 1-Chlorooctane	99.2	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	97.4	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Analytical Results For:

NTG ENVIRONMENTAL MIKE CARMONA 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Received: 12/08/2021 Sampling Date: 12/06/2021

Reported: 12/10/2021 Sampling Type: Soil

Project Name: SPRUCE GOOSE FED 2H Sampling Condition: Cool & Intact Sample Received By: Project Number: 214872 (10.15.21) Tamara Oldaker

COG - EDDY CO NM Project Location:

Sample ID: T - 1 (2') (H213546-02)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2021	ND	1.83	91.5	2.00	11.4	
Toluene*	<0.050	0.050	12/09/2021	ND	1.94	96.8	2.00	5.99	
Ethylbenzene*	<0.050	0.050	12/09/2021	ND	1.95	97.4	2.00	3.98	
Total Xylenes*	<0.150	0.150	12/09/2021	ND	5.91	98.5	6.00	4.28	
Total BTEX	<0.300	0.300	12/09/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.2	% 69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	12/09/2021	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2021	ND	189	94.3	200	15.9	
DRO >C10-C28*	<10.0	10.0	12/10/2021	ND	207	104	200	4.87	
EXT DRO >C28-C36	<10.0	10.0	12/10/2021	ND					
Surrogate: 1-Chlorooctane	100 9	% 44.3-13.	3						
Surrogate: 1-Chlorooctadecane	98.6	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Analytical Results For:

NTG ENVIRONMENTAL MIKE CARMONA 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Received: 12/08/2021 Sampling Date: 12/06/2021

Reported: 12/10/2021 Sampling Type: Soil

Project Name: SPRUCE GOOSE FED 2H Sampling Condition: Cool & Intact
Project Number: 214872 (10.15.21) Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: COG - EDDY CO NM

Sample ID: T - 1 (3') (H213546-03)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2021	ND	1.83	91.5	2.00	11.4	
Toluene*	<0.050	0.050	12/09/2021	ND	1.94	96.8	2.00	5.99	
Ethylbenzene*	<0.050	0.050	12/09/2021	ND	1.95	97.4	2.00	3.98	
Total Xylenes*	<0.150	0.150	12/09/2021	ND	5.91	98.5	6.00	4.28	
Total BTEX	<0.300	0.300	12/09/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.5	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	12/09/2021	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2021	ND	189	94.3	200	15.9	
DRO >C10-C28*	<10.0	10.0	12/10/2021	ND	207	104	200	4.87	
EXT DRO >C28-C36	<10.0	10.0	12/10/2021	ND					
Surrogate: 1-Chlorooctane	98.8	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	101	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

NTG ENVIRONMENTAL MIKE CARMONA 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

 Received:
 12/08/2021
 Sampling Date:
 12/06/2021

 Reported:
 12/10/2021
 Sampling Type:
 Soil

Project Name: SPRUCE GOOSE FED 2H Sampling Condition: Cool & Intact
Project Number: 214872 (10.15.21) Sample Received By: Tamara Oldaker

Project Location: COG - EDDY CO NM

Sample ID: T - 2 (1') (H213546-04)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2021	ND	1.83	91.5	2.00	11.4	
Toluene*	<0.050	0.050	12/09/2021	ND	1.94	96.8	2.00	5.99	
Ethylbenzene*	<0.050	0.050	12/09/2021	ND	1.95	97.4	2.00	3.98	
Total Xylenes*	<0.150	0.150	12/09/2021	ND	5.91	98.5	6.00	4.28	
Total BTEX	<0.300	0.300	12/09/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.0	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	12/09/2021	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2021	ND	189	94.3	200	15.9	
DRO >C10-C28*	<10.0	10.0	12/10/2021	ND	207	104	200	4.87	
EXT DRO >C28-C36	<10.0	10.0	12/10/2021	ND					
Surrogate: 1-Chlorooctane	99.4	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	109	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Analytical Results For:

NTG ENVIRONMENTAL MIKE CARMONA 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706

Fax To:

Received: 12/08/2021 Sampling Date: 12/06/2021

Reported: 12/10/2021 Sampling Type: Soil

Project Name: SPRUCE GOOSE FED 2H Sampling Condition: Cool & Intact Sample Received By: Project Number: 214872 (10.15.21) Tamara Oldaker

Project Location: COG - EDDY CO NM

Sample ID: T - 2 (2') (H213546-05)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2021	ND	1.83	91.5	2.00	11.4	
Toluene*	<0.050	0.050	12/09/2021	ND	1.94	96.8	2.00	5.99	
Ethylbenzene*	<0.050	0.050	12/09/2021	ND	1.95	97.4	2.00	3.98	
Total Xylenes*	< 0.150	0.150	12/09/2021	ND	5.91	98.5	6.00	4.28	
Total BTEX	<0.300	0.300	12/09/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.8	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/09/2021	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2021	ND	189	94.3	200	15.9	
DRO >C10-C28*	<10.0	10.0	12/10/2021	ND	207	104	200	4.87	
EXT DRO >C28-C36	<10.0	10.0	12/10/2021	ND					
Surrogate: 1-Chlorooctane	99.6	% 44.3-13.	3						
Surrogate: 1-Chlorooctadecane	112 9	6 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Analytical Results For:

NTG ENVIRONMENTAL MIKE CARMONA 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Received: 12/08/2021 Sampling Date: 12/06/2021

Reported: 12/10/2021 Sampling Type: Soil

Project Name: SPRUCE GOOSE FED 2H Sampling Condition: Cool & Intact
Project Number: 214872 (10.15.21) Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: COG - EDDY CO NM

Sample ID: T - 3 (1') (H213546-06)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2021	ND	1.83	91.5	2.00	11.4	
Toluene*	<0.050	0.050	12/09/2021	ND	1.94	96.8	2.00	5.99	
Ethylbenzene*	<0.050	0.050	12/09/2021	ND	1.95	97.4	2.00	3.98	
Total Xylenes*	<0.150	0.150	12/09/2021	ND	5.91	98.5	6.00	4.28	
Total BTEX	<0.300	0.300	12/09/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.7	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/09/2021	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2021	ND	189	94.3	200	15.9	
DRO >C10-C28*	<10.0	10.0	12/10/2021	ND	207	104	200	4.87	
EXT DRO >C28-C36	<10.0	10.0	12/10/2021	ND					
Surrogate: 1-Chlorooctane	97.9	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	108	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

NTG ENVIRONMENTAL MIKE CARMONA 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706

Fax To:

Received: 12/08/2021 Sampling Date: 12/06/2021

Reported: 12/10/2021 Sampling Type: Soil

Project Name: SPRUCE GOOSE FED 2H Sampling Condition: Cool & Intact Sample Received By: Project Number: 214872 (10.15.21) Tamara Oldaker

Project Location: COG - EDDY CO NM

Sample ID: T - 3 (2') (H213546-07)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2021	ND	1.83	91.5	2.00	11.4	
Toluene*	<0.050	0.050	12/09/2021	ND	1.94	96.8	2.00	5.99	
Ethylbenzene*	<0.050	0.050	12/09/2021	ND	1.95	97.4	2.00	3.98	
Total Xylenes*	<0.150	0.150	12/09/2021	ND	5.91	98.5	6.00	4.28	
Total BTEX	<0.300	0.300	12/09/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.5	% 69.9-14	0						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/09/2021	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2021	ND	189	94.3	200	15.9	
DRO >C10-C28*	<10.0	10.0	12/10/2021	ND	207	104	200	4.87	
EXT DRO >C28-C36	<10.0	10.0	12/10/2021	ND					
Surrogate: 1-Chlorooctane	93.7	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	102	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Notes and Definitions

QR-04 The RPD for the BS/BSD was outside of historical limits.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene

City, State ZIP

Midland, TX 79706

City, State ZIP:

Loving, NM 88256 15 W Loving Rd

State of Project:

Reporting:Level II Level III PST/UST

RRP

☐ Level IV ☐

Company Name Project Manager:

NTG Environmental Mike Carmona

701 Tradewinds BLVD



Company Name: COG	Bill to: (if different) Jac		
G	Jacqui Harris		
Program: UST/PST PRP Brownfields RRC uperfund	Work Order Comments	Page1 of1	Work Order No: H213546

4	432-813-0263		Email:	Email: jacqui.harris@conocophillips.com	conocop	hillips.c	mox					L	Deliverables: EDD	ables:	EDD		ADa	ADaPT L	Other:
Project Name: Sp	Spruce Goose Fed 2H (10.15.21)	0.15.21)	Turn	Turn Around	0					ANA	ALYSIS REQUEST	REQL	JEST					Pre	Preservative Codes
Project Number:	214872		Routine	√ Rush	Code											_		None: NO	O DI Water: H ₂ O
Project Location	Eddy Co, NM		Due Date:	72 hr					-					_	_	_	-	Cool: Cool	
Sampler's Name:	ES		TAT starts the	TAT starts the day received by the	ro		RO)	_	_	_			_	_	_	_		HCI . HC	
PO #.			lab, if recei	lab, if received by 4:30pm			+ MF	_	_				_	_	_	_		H-SO. H-	
SAMPLE RECEIPT	Temp Blank:	Yes (No	Wet Ice:	Yes No	eten	В	ORO -	00	_	_				_	_			H.PO.: HP	
Received Intact:	Yes No	Thermometer ID:	eter ID:	יו ע	ram	021) + [45	_	_			_	_	b		D	_	NABIC
Cooler Custody Seals:	0	Correction Factor:	n Factor:	10000	Par	EX 8	GRO	oride	_					_		_	HOL	Na.S.O.: NaSO	Naco
Sample Custody Seals:	No	Temperat	Temperature Reading:	2.80		вт	М (Chl	_						_		1		Zn Acetate+NaOH: Zn
otal Containers:		Corrected	Corrected Temperature:	2.30			8015		_						_	_		NaOH+A	NaOH+Ascorbic Acid: SAPC
				Grahl	+		РН		_	_				_	_	_			
Sample Identification	tion Date	Time	Soil	Water Comp	p Cont		т		_						_			San	Sample Comments
T-1 (1)	12/6/2021		×	G		×	×	×	+	+			_	4	+	+	+		
T-1 (2')	12/6/2021		×	6	1	×	×	×	+	+			4	4	+	+	+	1	
T-1 (3')	12/6/2021		×	G	1	×	×	×	+	+		1	4	+	+	+	+		
T-2 (1')	12/6/2021		×	G	_	×	×	×	+	+		1	4	+	+	+	+	1	
T-2 (2")	12/6/2021		×	6	_	×	×	×	+	+		_	4	+	+	+	+	1	
T-3 (1')	12/6/2021		×	G	_	×	×	×	+	+		1	4	4	+	+	+	1	
T-3 (2')	12/6/2021		×	6	1	×	×	×	+				4	-	-	+	1		
									+	+			+	+	+	+	+		
								+	+	+		_	_	+	+	+	+	1	
Additoinal Comments:	omments:																		
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	ent and relinquishment of samples and relinquishment of samples and samples and \$85.00 will be applied to each	ples constitut d shall not as project and a	es a valid purchase sume any responsi charge of \$5 for ea	e order from client bility for any losse ich sample submitt	company to) s or expense ed to Xenco,	Xenco, its s incurred but not a	affiliates d by the nalyzed.	and sub dient if si	contract ich losse	ors. It as	signs star	ndard te	ms and beyond	condition the contiated.	ns				
Relinquished by: (Signature)	nature)	Receives	Received by: (Signature)	(e)		Date/Time	me		Reling	uished	Relinquished by: (Signature)	gnature	(6	R	ceive	Received by: (Signature)	Signat	ure)	Date/Time
M/	Mulle	THE US	Masse	10	12-8-21		476	2											
(,						4											
								6					_						



Environment Testing America

ANALYTICAL REPORT

Eurofins Midland 1211 W. Florida Ave Midland, TX 79701 Tel: (432)704-5440

Laboratory Job ID: 880-10483-1

Laboratory Sample Delivery Group: Eddy Co NM Client Project/Site: Spruce Goose Fed 2H (10.15.21)

For:

NT Global 701 Tradewinds Blvd Midland, Texas 79706

Attn: Mike Carmona

KRAMER

Authorized for release by: 1/25/2022 5:25:58 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

Review your project results through

.....LINKS

Have a Question?



Visit us at:

www.eurofinsus.com/Env Released to Imaging: 5/3/2022 3:20:59 PM

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: NT Global Project/Site: Spruce Goose Fed 2H (10.15.21) Laboratory Job ID: 880-10483-1

SDG: Eddy Co NM

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	31
QC Sample Results	34
QC Association Summary	44
Lab Chronicle	52
Certification Summary	63
Method Summary	64
Sample Summary	65
	66
Receipt Checklists	70

3

4

5

9

10

12

13

14

Definitions/Glossary

Client: NT Global Job ID: 880-10483-1 Project/Site: Spruce Goose Fed 2H (10.15.21)

SDG: Eddy Co NM

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

MS and/or MSD recovery exceeds control limits.

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.
HPLC/IC	
Qualifier	Qualifier Description

Glossary

F1

U

EDL

LOD

Ciossaiy	
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)

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

Estimated Detection Limit (Dioxin)

Limit of Detection (DoD/DOE)

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

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)

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

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

Too Numerous To Count **TNTC**

Eurofins Midland

Case Narrative

Client: NT Global

Job ID: 880-10483-1 Project/Site: Spruce Goose Fed 2H (10.15.21) SDG: Eddy Co NM

Job ID: 880-10483-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-10483-1

Receipt

The samples were received on 1/24/2022 10:38 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.2°C

GC VOA

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

GC Semi VOA

Method 8015MOD NM: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 880-17627 and analytical batch 880-17551 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10 These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8015MOD NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-17627 and analytical batch 880-17551 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8015MOD NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-17585 and analytical batch 880-17589 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-17627/3-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC

Method 300 ORGFM 28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-17583 and analytical batch 880-17637 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300 ORGFM 28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-17584 and analytical batch 880-17638 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample ID: CS-1 (8")

Date Collected: 01/21/22 00:00

Lab Sample ID: 880-10483-1 Matrix: Solid

Date Received: 01/24/22 10:38

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/24/22 11:15	01/24/22 15:26	
Toluene	< 0.00201	U	0.00201		mg/Kg		01/24/22 11:15	01/24/22 15:26	
Ethylbenzene	< 0.00201	U	0.00201		mg/Kg		01/24/22 11:15	01/24/22 15:26	
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/24/22 11:15	01/24/22 15:26	
o-Xylene	< 0.00201	U	0.00201		mg/Kg		01/24/22 11:15	01/24/22 15:26	
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/24/22 11:15	01/24/22 15:26	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	115		70 - 130				01/24/22 11:15	01/24/22 15:26	
1,4-Difluorobenzene (Surr)	104		70 - 130				01/24/22 11:15	01/24/22 15:26	
Method: Total BTEX - Total	I BTEX Calcula	tion							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/25/22 11:35	•
Method: 8015 NM - Diesel	Range Organic	s (DRO) (0	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<49.9	U	49.9		mg/Kg			01/25/22 09:24	
Mothod: 2015P NM Disco	l Pango Organ	ice (DPO)	(GC)						
Method: 8015B NM - Diese	i Kange Organ	ics (Dixo)	(00)						

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1 F2	49.9		mg/Kg		01/24/22 11:46	01/24/22 16:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U F1	49.9		mg/Kg		01/24/22 11:46	01/24/22 16:51	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/24/22 11:46	01/24/22 16:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				01/24/22 11:46	01/24/22 16:51	1
o-Terphenyl	93		70 - 130				01/24/22 11:46	01/24/22 16:51	1

Method: 300.0 - Anions, Ion Cl	nromatogra	phy - Solu	ble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.0		4.97		mg/Kg			01/24/22 20:48	1

Client Sample ID: CS-2 (8")

Date Collected: 01/21/22 00:00

Lab Sample ID: 880-10483-2

Matrix: Solid

Date Received: 01/24/22 10:38

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/24/22 11:15	01/24/22 15:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/24/22 11:15	01/24/22 15:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/24/22 11:15	01/24/22 15:46	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/24/22 11:15	01/24/22 15:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/24/22 11:15	01/24/22 15:46	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/24/22 11:15	01/24/22 15:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130				01/24/22 11:15	01/24/22 15:46	1
1,4-Difluorobenzene (Surr)	105		70 - 130				01/24/22 11:15	01/24/22 15:46	1

Eurofins Midland

2

Л

_

0

9

11

12

14

io iviidiaria

Client Sample ID: CS-2 (8")

Method: Total BTEX - Total BTEX Calculation

Lab Sample ID: 880-10483-2 Date Collected: 01/21/22 00:00

Matrix: Solid

01/24/22 11:46 01/24/22 18:15

Date Received: 01/24/22 10:38

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			01/25/22 11:35	1
- Method: 8015 NM - Diesel R	ange Organic	s (DRO) (G	C)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/25/22 09:24	1
Method: 8015B NM - Diesel Analyte		ics (DRO) (Qualifier	GC) RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		01/24/22 11:46	01/24/22 18:15	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		01/24/22 11:46	01/24/22 18:15	1
C10-C28)									

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	01/24/22 11:46	01/24/22 18:15	1
o-Terphenyl	104		70 - 130	01/24/22 11:46	01/24/22 18:15	1

49.9

mg/Kg

Method: 300.0 - Anions, Ion Chromatography - Soluble

<49.9 U

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.6		4.99		mg/Kg			01/24/22 20:56	1

Client Sample ID: CS-3 (8") Lab Sample ID: 880-10483-3 Date Collected: 01/21/22 00:00 **Matrix: Solid**

Date Received: 01/24/22 10:38

Released to Imaging: 5/3/2022 3:20:59 PM

Oll Range Organics (Over C28-C36)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/24/22 11:15	01/24/22 16:07	1
Toluene	< 0.00200	U	0.00200		mg/Kg		01/24/22 11:15	01/24/22 16:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/24/22 11:15	01/24/22 16:07	1
m-Xylene & p-Xylene	< 0.00399	U	0.00399		mg/Kg		01/24/22 11:15	01/24/22 16:07	1
o-Xylene	< 0.00200	U	0.00200		mg/Kg		01/24/22 11:15	01/24/22 16:07	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/24/22 11:15	01/24/22 16:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				01/24/22 11:15	01/24/22 16:07	1
1,4-Difluorobenzene (Surr)	102		70 - 130				01/24/22 11:15	01/24/22 16:07	1
-									
		tion	.0=.00						
Method: Total BTEX - Tota	l BTEX Calcula	tion Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: Total BTEX - Tota Analyte Total BTEX	l BTEX Calcula	Qualifier		MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 01/25/22 11:35	Dil Fac
Method: Total BTEX - Tota Analyte Total BTEX	I BTEX Calcula Result <0.00399	Qualifier U	RL 0.00399	MDL		<u>D</u>	Prepared		Dil Fac
Method: Total BTEX - Tota Analyte Total BTEX Method: 8015 NM - Diesel	I BTEX Calcula Result <0.00399 Range Organic	Qualifier U	RL 0.00399		mg/Kg	<u>D</u>	Prepared Prepared		1
Method: Total BTEX - Tota Analyte Total BTEX Method: 8015 NM - Diesel Analyte	I BTEX Calcula Result <0.00399 Range Organic	Qualifier U s (DRO) (C	RL 0.00399		mg/Kg		· · ·	01/25/22 11:35	Dil Fac
Method: Total BTEX - Tota Analyte Total BTEX Method: 8015 NM - Diesel Analyte Total TPH	I BTEX Calcula Result <0.00399 Range Organic Result <50.0	Qualifier U S (DRO) (O Qualifier U	RL 0.00399		mg/Kg Unit		· · ·	01/25/22 11:35 Analyzed	1
Method: Total BTEX - Tota Analyte Total BTEX Method: 8015 NM - Diesel Analyte Total TPH Method: 8015B NM - Diese	I BTEX Calcula Result <0.00399 Range Organic Result <50.0	Qualifier U S (DRO) (O Qualifier U	RL 0.00399		mg/Kg Unit mg/Kg		· · ·	01/25/22 11:35 Analyzed	Dil Fac
Method: Total BTEX - Tota Analyte	I BTEX Calcula Result <0.00399 Range Organic Result <50.0	Qualifier U S (DRO) (C Qualifier U ics (DRO) Qualifier	RL 0.00399	MDL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared	01/25/22 11:35 Analyzed 01/25/22 09:24	1

Eurofins Midland

Client Sample ID: CS-3 (8") Lab Sample ID: 880-10483-3

Date Collected: 01/21/22 00:00 **Matrix: Solid** Date Received: 01/24/22 10:38

Analyte	Result	Qualifier	RL	MDL (Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	i	mg/Kg		01/24/22 11:46	01/24/22 18:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				01/24/22 11:46	01/24/22 18:36	1
o-Terphenyl	94		70 - 130				01/24/22 11:46	01/24/22 18:36	1

Method: 300.0 - Anions, Ion Chr	omatogra	phy - Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.22		4.95		mg/Kg			01/24/22 21:03	1

Lab Sample ID: 880-10483-4 Client Sample ID: CS-4 (8") Date Collected: 01/21/22 00:00 **Matrix: Solid**

Date Received: 01/24/22 10:38

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		01/24/22 11:15	01/24/22 16:27	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/24/22 11:15	01/24/22 16:27	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/24/22 11:15	01/24/22 16:27	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		01/24/22 11:15	01/24/22 16:27	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/24/22 11:15	01/24/22 16:27	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		01/24/22 11:15	01/24/22 16:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				01/24/22 11:15	01/24/22 16:27	1
1,4-Difluorobenzene (Surr)	108		70 - 130				01/24/22 11:15	01/24/22 16:27	1

Method. Total DTLA - Total DTL	.A Calcula	uon							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			01/25/22 11:35	1
_									

	Method: 8015 NM - Diesel Range	e Organic	s (DRO) (GC	;)					
	Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
l	Total TPH	<49.9	U	49.9	mg/Kg			01/25/22 09:24	1

Total II II	10.0	J	10.0		mg/rtg			0 1/20/22 00:21	•
Method: 8015B NM - Diesel R	ange Organ	ics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/24/22 11:46	01/24/22 18:57	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/24/22 11:46	01/24/22 18:57	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/24/22 11:46	01/24/22 18:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				01/24/22 11:46	01/24/22 18:57	1
o-Terphenyl	94		70 - 130				01/24/22 11:46	01/24/22 18:57	1

Method: 300.0 - Anions, Ion Cl	hromatograp	ohy - Solu	ble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.05		5.05		mg/Kg			01/24/22 21:11	1

Eurofins Midland

Client Sample ID: CS-5 (8")

Lab Sample ID: 880-10483-5 Date Collected: 01/21/22 00:00

Matrix: Solid

Prepared

Analyzed

01/24/22 11:46 01/24/22 19:18

Date Received: 01/24/22 10:38

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/24/22 11:15	01/24/22 16:47	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/24/22 11:15	01/24/22 16:47	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/24/22 11:15	01/24/22 16:47	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		01/24/22 11:15	01/24/22 16:47	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/24/22 11:15	01/24/22 16:47	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		01/24/22 11:15	01/24/22 16:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				01/24/22 11:15	01/24/22 16:47	1
1,4-Difluorobenzene (Surr)	97		70 - 130				01/24/22 11:15	01/24/22 16:47	1
Method: Total BTEX - Total B Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: Total BTEX - Total B Analyte Total BTEX	<0.00403	Qualifier U	0.00403	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 01/25/22 11:35	Dil Fac
Method: Total BTEX - Total B Analyte Total BTEX Method: 8015 NM - Diesel Ra Analyte	Result <0.00403	Qualifier U	0.00403			<u>D</u>	Prepared Prepared		Dil Fac
Method: Total BTEX - Total B Analyte Total BTEX Method: 8015 NM - Diesel Ra Analyte	Result <0.00403	Qualifier U s (DRO) (Qualifier	0.00403		mg/Kg	_ =	<u> </u>	01/25/22 11:35	1
Method: Total BTEX - Total B Analyte Total BTEX Method: 8015 NM - Diesel Ra Analyte Total TPH	Result <0.00403 nge Organic Result <50.0	Qualifier U s (DRO) (O Qualifier U	0.00403 GC) RL 50.0		mg/Kg	_ =	<u> </u>	01/25/22 11:35 Analyzed	1
Method: Total BTEX - Total B Analyte Total BTEX Method: 8015 NM - Diesel Ra Analyte Total TPH Method: 8015B NM - Diesel R	Result <0.00403 nge Organic Result <50.0 cange Organ	Qualifier U s (DRO) (O Qualifier U	0.00403 GC) RL 50.0	MDL	mg/Kg	_ =	<u> </u>	01/25/22 11:35 Analyzed	Dil Fac
Method: Total BTEX - Total B Analyte Total BTEX Method: 8015 NM - Diesel Ra Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics	Result <0.00403 nge Organic Result <50.0 cange Organ	Qualifier U S (DRO) (O Qualifier U ics (DRO) Qualifier	0.00403 GC) RL 50.0 (GC)	MDL	mg/Kg Unit mg/Kg	<u></u> <u></u>	Prepared	01/25/22 11:35 Analyzed 01/25/22 09:24	Dil Fac
Method: Total BTEX - Total B Analyte Total BTEX Method: 8015 NM - Diesel Ra	Result <0.00403 nge Organic Result <50.0 cange Organ Result	Qualifier U S (DRO) (O Qualifier U ics (DRO) Qualifier U	0.00403 GC) RL 50.0 (GC) RL	MDL	mg/Kg Unit mg/Kg Unit	<u></u> <u></u>	Prepared 01/24/22 11:46	01/25/22 11:35 Analyzed 01/25/22 09:24 Analyzed	1

o-Terphenyl	107		70 - 130			01/24/22 11:46	01/24/22 19:18	1
Method: 300.0 - Anions, Ion Ch	romatogra	phy - Solul	ble					
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.99	U F1	4.99	mg/Kg			01/24/22 21:18	1

Limits

70 - 130

%Recovery Qualifier

117

Client Sample ID: CS-6 (8") Lab Sample ID: 880-10483-6 Date Collected: 01/21/22 00:00 Matrix: Solid

Date Received: 01/24/22 10:38

Surrogate

1-Chlorooctane

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/24/22 11:15	01/24/22 17:08	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/24/22 11:15	01/24/22 17:08	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/24/22 11:15	01/24/22 17:08	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/24/22 11:15	01/24/22 17:08	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/24/22 11:15	01/24/22 17:08	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/24/22 11:15	01/24/22 17:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130				01/24/22 11:15	01/24/22 17:08	1
1,4-Difluorobenzene (Surr)	99		70 - 130				01/24/22 11:15	01/24/22 17:08	1

Eurofins Midland

Dil Fac

Client Sample ID: CS-6 (8")

Lab Sample Date Collected: 01/21/22 00:00

Lab Sample ID: 880-10483-6 Matrix: Solid

Date Received: 01/24/22 10:38

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/25/22 11:35	1
Method: 8015 NM - Diesel Rar	nge Organic	s (DRO) (G	SC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/25/22 09:24	1
Method: 8015B NM - Diesel R	ange Organi	ics (DRO) ((GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

- J							
Gasoline Range Organics	<50.0	U	50.0	mg/Kg	01/24/22 11:46	01/24/22 19:40	1
(GRO)-C6-C10							
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg	01/24/22 11:46	01/24/22 19:40	1
C10-C28)							
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg	01/24/22 11:46	01/24/22 19:40	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130		01/24/22 11:46	01/24/22 19:40	1

o-Terphenyl 99 70 - 130 01/24/22 11:46 01/24/22 19:40 1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte Result Qualifier RL MDL Unit mg/Kg D Prepared Analyzed Dil Fac O1/24/22 21:41 1

Client Sample ID: CS-7 (8")

Date Collected: 01/21/22 00:00

Date Received: 01/24/22 10:38

Lab Sample ID: 880-10483-7

Matrix: Solid

Method: 8021B - Volatile Organic Compounds	(GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/24/22 11:15	01/24/22 17:28	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/24/22 11:15	01/24/22 17:28	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/24/22 11:15	01/24/22 17:28	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/24/22 11:15	01/24/22 17:28	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/24/22 11:15	01/24/22 17:28	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/24/22 11:15	01/24/22 17:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				01/24/22 11:15	01/24/22 17:28	1
1,4-Difluorobenzene (Surr)	82		70 - 130				01/24/22 11:15	01/24/22 17:28	1
- Method: Total BTEX - Total	BTEX Calcula	tion							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/25/22 11:35	1
Method: 8015 NM - Diesel I	Range Organic	s (DRO) (0	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	II	50.0		mg/Kg		-	01/25/22 09:24	

Method: 8015B NM - Diesei Rai	nge Organi	ICS (DRU) ((GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/24/22 11:46	01/24/22 20:01	1
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		01/24/22 11:46	01/24/22 20:01	1

C10-C28)

Eurofins Midland

_

4

6

8

10

12

13

14

Client Sample ID: CS-7 (8")

Date Collected: 01/21/22 00:00

Lab Sample ID: 880-10483-7

Matrix: Solid

Date Collected: 01/21/22 00:00 Date Received: 01/24/22 10:38

Method: 8015B NM - Diesel Ra	ange Organ	ics (DRO)	(GC) (Contin	ued)				
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/24/22 11:46	01/24/22 20:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130			01/24/22 11:46	01/24/22 20:01	1
o-Terphenyl	98		70 - 130			01/24/22 11:46	01/24/22 20:01	1

Method: 300.0 - Anions, Ion Ch	nromatograp	ohy - Solubl	le					
Analyte	Result (Qualifier	RL	MDL Uni	t D	Prepared	Analyzed	Dil Fac
Chloride	5.83		5.00	mg/	/Kg		01/24/22 21:49	1

Client Sample ID: CS-8 (8")

Date Collected: 01/21/22 00:00

Date Received: 01/24/22 10:38

Lab Sample ID: 880-10483-8

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
Benzene	<0.00200	U	0.00200		mg/Kg		01/24/22 11:15	01/24/22 17:49	
Toluene	<0.00200	U	0.00200		mg/Kg		01/24/22 11:15	01/24/22 17:49	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/24/22 11:15	01/24/22 17:49	
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		01/24/22 11:15	01/24/22 17:49	
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/24/22 11:15	01/24/22 17:49	
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/24/22 11:15	01/24/22 17:49	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil F
4-Bromofluorobenzene (Surr)	120		70 - 130				01/24/22 11:15	01/24/22 17:49	
1,4-Difluorobenzene (Surr)	102		70 - 130				01/24/22 11:15	01/24/22 17:49	
Method: Total BTEX - Total B	TEX Calcula	tion							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
Total BTEX	<0.00401	U	0.00401		mg/Kg			01/25/22 11:35	
Method: 8015 NM - Diesel Ra	nge Organic	s (DRO) (0	3C)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
Total TPH	<49.9	U	49.9		mg/Kg			01/25/22 09:24	
: Method: 8015B NM - Diesel R	ange Organ	ice (DRO)	(GC)						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		01/24/22 11:46	01/24/22 20:22	
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		01/24/22 11:46	01/24/22 20:22	
Diesel Range Organics (Over C10-C28)	<49.9 <49.9		49.9 49.9		mg/Kg			01/24/22 20:22 01/24/22 20:22	
Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)		U			0 0				Dil F
Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.9	U	49.9		0 0		01/24/22 11:46	01/24/22 20:22	Dil F
Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<49.9 %Recovery	U	49.9 Limits		0 0		01/24/22 11:46 Prepared 01/24/22 11:46	01/24/22 20:22 Analyzed	Dil F
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Ion C	<49.9 **Recovery 103 95	∪ Qualifier	49.9 Limits 70 - 130 70 - 130		0 0		01/24/22 11:46 Prepared 01/24/22 11:46	01/24/22 20:22 Analyzed 01/24/22 20:22	Dil F

Eurofins Midland

01/24/22 22:11

4.95

mg/Kg

6.33

Chloride

Client Sample Results

Client: NT Global Job ID: 880-10483-1 Project/Site: Spruce Goose Fed 2H (10.15.21) SDG: Eddy Co NM

Client Sample ID: CS-9 (8")

Date Collected: 01/21/22 00:00 Date Received: 01/24/22 10:38 Lab Sample ID: 880-10483-9

Matrix: Solid

IX.	Solid	

Method: 8021B - Volatile O	rganic Compo	unds (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/24/22 11:15	01/24/22 18:09	1
Toluene	< 0.00200	U	0.00200		mg/Kg		01/24/22 11:15	01/24/22 18:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/24/22 11:15	01/24/22 18:09	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/24/22 11:15	01/24/22 18:09	1
o-Xylene	< 0.00200	U	0.00200		mg/Kg		01/24/22 11:15	01/24/22 18:09	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/24/22 11:15	01/24/22 18:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				01/24/22 11:15	01/24/22 18:09	1

1,4-Difluorobenzene (Surr) 70 - 130 01/24/22 11:15 01/24/22 18:09

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	ı	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg				01/25/22 11:35	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)									
	Analyte	Result Qu	ualifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Total TPH	<50.0 U	50.0		mg/Kg			01/25/22 09:24	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		01/24/22 11:46	01/24/22 20:43	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		01/24/22 11:46	01/24/22 20:43	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/24/22 11:46	01/24/22 20:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 130				01/24/22 11:46	01/24/22 20:43	

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	01/24/22 11:46	01/24/22 20:43	1
o-Terphenyl	95		70 - 130	01/24/22 11:46	01/24/22 20:43	1
<u> </u>						

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result (Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.02 l	U	5.02		mg/Kg			01/24/22 22:19	1

Client Sample ID: CS-10 (8")

Date Collected: 01/21/22 00:00 Date Received: 01/24/22 10:38

Lab	Sample	ID:	880-1	048	3-10
					_

01/24/22 11:15 01/24/22 18:30

Matrix: Solid

100

Method: 8021B - Volatile O	rganic Compo	unas (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		01/24/22 11:15	01/24/22 18:30	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/24/22 11:15	01/24/22 18:30	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/24/22 11:15	01/24/22 18:30	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		01/24/22 11:15	01/24/22 18:30	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/24/22 11:15	01/24/22 18:30	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		01/24/22 11:15	01/24/22 18:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130				01/24/22 11:15	01/24/22 18:30	1

Eurofins Midland

70 - 130

1,4-Difluorobenzene (Surr)

Client Sample ID: CS-10 (8")

Date Collected: 01/21/22 00:00 Date Received: 01/24/22 10:38

Lab Sample ID: 880-10483-10

Matrix: Solid

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			01/25/22 11:35	1

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

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<49.9	49.9	ma/Ka			01/25/22 09:24	1	Ĺ

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		01/24/22 11:46	01/24/22 21:05	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		01/24/22 11:46	01/24/22 21:05	1
C10-C28) OII Range Organics (Over C28-C36)	<49.9	ш	49.9		mg/Kg		01/24/22 11:46	01/24/22 21:05	1
Oil Range Organics (Over C20-C30)	\49.9	U	49.9		mg/rxg		01/24/22 11.40	01/24/22 21.03	'
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105	70 - 130	01/24/22 11:46	01/24/22 21:05	1
o-Terphenyl	95	70 - 130	01/24/22 11:46	01/24/22 21:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.12	5.05	mg/Kg			01/24/22 22:26	1

Client Sample ID: CS-11 (8")

Date Collected: 01/21/22 00:00 Date Received: 01/24/22 10:38

Lab Sample ID: 880-10483-11

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/24/22 11:15	01/24/22 19:52	1
Toluene	< 0.00199	U	0.00199		mg/Kg		01/24/22 11:15	01/24/22 19:52	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		01/24/22 11:15	01/24/22 19:52	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/24/22 11:15	01/24/22 19:52	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		01/24/22 11:15	01/24/22 19:52	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/24/22 11:15	01/24/22 19:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				01/24/22 11:15	01/24/22 19:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared Analyzed	DII Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	01/24/22 11:15 01/24/22 19:5	2 1
1,4-Difluorobenzene (Surr)	79		70 - 130	01/24/22 11:15 01/24/22 19:5	2 1

Method: Total BTEX - Total BTEX Calculation

Released to Imaging: 5/3/2022 3:20:59 PM

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/25/22 11:35	1

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

Analyte	Result	Qualifier	RL	MDL Unit	D)	Prepared	Analyzed	Dil Fac	;
Total TPH	<50.0	U	50.0	mg/	 Kg			01/25/22 09:24	1	

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

		() (,					
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		01/24/22 11:46	01/24/22 21:48	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		01/24/22 11:46	01/24/22 21:48	1
C10-C28)								

Eurofins Midland

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 96107

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	96107 Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	5/3/2022