Emission Event Calculation Sheet

Vent Emissions	
Emissions	Lbs
H_2S	0.00
Propane	24,837.16
ISO Butane	11,554.49
N-Butane	6,419.16
ISO-Pentane	4,780.98
N-Pentane	3,984.15
Hexanes +	4,758.71
VOC Total	56,334.64

Flare Emissions	
Emissions	Lbs
NOx	609.39
NO	32.07
CO	1,243.54
SO_2	0.00
Propane	496.74
ISO Butane	231.09
N-Butane	128.38
ISO-Pentane	95.62
N-Pentane	79.68
Hexanes +	95.17
H2S	0.00
VOC Total	1,126.69

Reportable Event Determination		
Emissions	Amount	Reportable
NOx	609.39	No
NO	32.07	No
CO	1,243.54	No
SO_2 or H_2S	0.00	No
Propane	496.74	No
ISO Butane	231.09	No
N-Butane	128.38	No
ISO-Pentane	95.62	No
N-Pentane	79.68	No
Hexanes +	95.17	No
H2S	0.00	No
VOC Total	1,126.69	No
Flare Reportable	No	
Vent Reportable	Not Applicable	

Emission Calculation Information	
Emergency Flare	
Volume mmscf	3.9663
Btu/scf (LHV)	1138.0345
Total mmbtu	4513.7596
Lbs NOx/mmbtu*	0.1380
Fuel Bound NOx*	.5 wt % NH3 in fuel
Lbs CO/mmbtu*	0.2755
Lbs H_2S**	98% Dest. Eff.
Lbs VOC***	98% Dest. Eff.
gm-moles/scf	1.2630
gm/lbs	453.5924

Flared?	yes

Reportable Event*	No

*If Reportable Event is greater than 0 then the event is reportable.

Convert From (ppm to Mole %)		Convert From (Mole % to ppm)	
H_2S (ppm)	H_2S Mole %	H_2S Mole %	H_2S (ppm)
0	0	1.93	19300

*Emission Calculation Based on TNRCC: RG-109 (October 2000) - Air Permit Technical Guidance for Chemical Sources: Flare and Vapor Oxidizers

**H_2S emissions calculated from weight of gas sent to the flare and multiplied by the flares destruction efficiency of 98%, assuming 98% H_2S by weight is converted to SO_2.

***Speciated VOC emissions calculated from weight of gas sent to flare multiplied by the flares destruction efficiency of 98%.

Gas Component Data								
Component	Mole %	Mole Wt. (g/mol)*	Component Mole Wt. (g)	Weight %	Pounds	Tons	Pure Component LHV (btu/scf)*	Component BTU LHV in Mixture (btu/scf)
Nitrogen	1.20	28.01	0.34	0.02	3,712.51	1.86	N/A	N/A
H_2S	0.00	34.08	0.00	0.00	0.00	0.00	586.80	0.00
Methane	79.10	16.04	12.69	0.60	140,146.89	70.07	909.40	719.34
Carbon Dio.	0.70	44.01	0.31	0.01	3,402.28	1.70	N/A	N/A
Ethane	9.50	30.07	2.86	0.13	31,548.55	15.77	1,618.70	153.78
Propane	5.10	44.10	2.25	0.11	24,837.16	12.42	2,314.90	118.06
ISO Butane	1.80	58.12	1.05	0.05	11,554.49	5.78	3,000.40	54.01
N-Butane	1.00	58.12	0.58	0.03	6,419.16	3.21	3,010.80	30.11
ISO-Pentane	0.60	72.15	0.43	0.02	4,780.98	2.39	3,699.00	22.19
N-Pentane	0.50	72.15	0.36	0.02	3,984.15	1.99	3,706.90	18.53
Hexanes +***	0.50	86.18	0.43	0.02	4,758.71	2.38	4,403.80	22.02
Total Components	100.00%		21.29	100.00%	235,144.86	117.57		1,138.03
Total C3+	9.50%		5.10	23.96%	56,334.64	28.17		264.92

* Data from the GPSA - Engineering Data Book 11th Edition, Figure 23-2; page 23-4 "FPS Volumes I & II ver. 2000"

*** Hexanes +, calculated on mole weight of Hexane

Number	MCF
1	3,966
Total	3,966

Emission Event Calculation Sheet

Vent Emissions	
Emissions	Lbs
H_2S	3,067.02
Propane	9,581.46
ISO Butane	2,384.93
N-Butane	4,417.53
ISO-Pentane	1,783.02
N-Pentane	1,312.03
Hexanes +	2,009.11
VOC Total	21,488.07

Flare Emissions	
Emissions	Lbs
NOx	243.36
NO	12.81
CO	496.68
SO_2	5,759.67
Propane	191.63
ISO Butane	47.70
N-Butane	88.35
ISO-Pentane	35.66
N-Pentane	26.24
Hexanes +	40.18
H2S	61.34
VOC Total	429.76

Flared?	yes

Reportable Event Determination			Event Duration (Hr)
			103
Emissions	Amount	Reportable	Event lb/hr
NOx	852.75	No	8.32
NO	44.88	No	0.44
CO	1,740.22	No	16.98
SO_2 or H_2S	5,759.67	Yes	56.19
Propane	688.37	No	6.72
ISO Butane	278.79	No	2.72
N-Butane	216.73	No	2.11
ISO-Pentane	131.28	No	1.28
N-Pentane	105.92	No	1.03
Hexanes +	135.36	No	1.32
H2S	61.34	No	0.60
VOC Total	1,556.45	No	15.18
Flare Reportable	Yes		
Vent Reportable	Not Applicable		

Reportable Event*	Yes

*If Reportable Event is greater than 0 then the event is reportable.

Emission Calculation Information Emergency Flare	
Volume mmscf	1.6745
Btu/scf (LHV)	1076.6012
Total mmbtu	1802.8180
Lbs NOx/mmbtu*	0.1380
Fuel Bound NOx*	.5 wt % NH3 in fuel
Lbs CO/mmbtu*	0.2755
Lbs H_2S**	98% Dest. Eff.
Lbs VOC***	98% Dest. Eff.
gm-moles/scf	1.2630
gm/lbs	453.5924

Convert From (ppm to Mole %)		Convert From (Mole % to ppm)	
H_2S (ppm)	H_2S Mole %	H_2S Mole %	H_2S (ppm)
0	0	1.93	19300

*Emission Calculation Based on TNRCC: RG-109 (October 2000) - Air Permit Technical Guidance for Chemical Sources: Flare and Vapor Oxidizers

**H_2S emissions calculated from weight of gas sent to the flare and multiplied by the flares destruction efficiency of 98%, assuming 98% H_2S by weight is converted to SO_2.

***Speciated VOC emissions calculated from weight of gas sent to flare multiplied by the flares destruction efficiency of 98%.

Gas Component Data								
Component	Mole %	Mole Wt. (g/mol)*	Component Mole Wt. (g)	Weight %	Pounds	Tons	Pure Component LHV (btu/scf)*	Component BTU LHV in Mixture (btu/scf)
Nitrogen	1.13	28.01	0.32	0.01	1,475.97	0.74	N/A	N/A
H_2S	1.93	34.08	0.66	0.03	3,067.02	1.53	586.80	11.33
Methane	74.97	16.04	12.03	0.54	56,080.06	28.04	909.40	681.78
Carbon Dio.	4.56	44.01	2.01	0.09	9,357.29	4.68	N/A	N/A
Ethane	8.90	30.07	2.68	0.12	12,478.42	6.24	1,618.70	144.06
Propane	4.66	44.10	2.05	0.09	9,581.46	4.79	2,314.90	107.87
ISO Butane	0.88	58.12	0.51	0.02	2,384.93	1.19	3,000.40	26.40
N-Butane	1.63	58.12	0.95	0.04	4,417.53	2.21	3,010.80	49.08
ISO-Pentane	0.53	72.15	0.38	0.02	1,783.02	0.89	3,699.00	19.60
N-Pentane	0.39	72.15	0.28	0.01	1,312.03	0.66	3,706.90	14.46
Hexanes +***	0.50	86.18	0.43	0.02	2,009.11	1.00	4,403.80	22.02
Total Components	100.08%		22.29	100.00%	103,946.85	51.97		1,076.60
Total C3+	8.59%		4.61	20.67%	21,488.07	10.74		239.43

* Data from the GPSA - Engineering Data Book 11th Edition, Figure 23-2; page 23-4 "FPS Volumes I & II ver. 2000"

*** Hexanes +, calculated on mole weight of Hexane

Number	Known MCF
1	1,675
Total	1,675

Emission Event Calculation Sheet

Vent Emissions	
Emissions	Lbs
H_2S	3,379.06
Propane	21,301.75
ISO Butane	5,302.23
N-Butane	9,821.18
ISO-Pentane	3,964.05
N-Pentane	2,916.94
Hexanes +	4,466.70
VOC Total	47,772.85

Flare Emissions	
Emissions	Lbs
NOx	580.29
NO	30.54
CO	1,186.69
SO_2	6,218.74
Propane	426.03
ISO Butane	106.04
N-Butane	196.42
ISO-Pentane	79.28
N-Pentane	58.34
Hexanes +	89.33
H2S	67.58
VOC Total	955.46

Flared?	yes

Reportable Event Determination			Event Duration (Hr)
			12
Emissions	Amount	Reportable	Event lb/hr
NOx	580.29	No	48.357111
NO	30.54	No	2.545111
CO	1,186.69	No	98.890449
SO_2 or H_2S	6,218.74	Yes	518.228201
Propane	426.03	No	35.502913
ISO Butane	106.04	No	8.837051
N-Butane	196.42	No	16.368629
ISO-Pentane	79.28	No	6.606745
N-Pentane	58.34	No	4.861567
Hexanes +	89.33	No	7.444504
H2S	67.58	No	5.631766
VOC Total	955.46	No	79.621410
Flare Reportable	Yes		
Vent Reportable	Not Applicable		

Reportable Event*	Yes

*If Reportable Event is greater than 0 then the event is reportable.

Emission Calculation Information Emergency Flare	
Volume mmscf	3.7229
Btu/scf (LHV)	1157.0000
Total mmbtu	4307.3880
Lbs NOx/mmbtu*	0.1380
Fuel Bound NOx*	.5 wt % NH3 in fuel
Lbs CO/mmbtu*	0.2755
Lbs H_2S**	98% Dest. Eff.
Lbs VOC***	98% Dest. Eff.
gm-moles/scf	1.2630
gm/lbs	453.5924

Convert From (ppm to Mole %)		Convert From (Mole % to ppm)	
H_2S (ppm)	H_2S Mole %	H_2S Mole %	H_2S (ppm)
0	0	0.96	9564.2857

*Emission Calculation Based on TNRCC: RG-109 (October 2000) - Air Permit Technical Guidance for Chemical Sources: Flare and Vapor Oxidizers

**H_2S emissions calculated from weight of gas sent to the flare and multiplied by the flares destruction efficiency of 98%, assuming 98% H_2S by weight is converted to SO_2.

***Speciated VOC emissions calculated from weight of gas sent to flare multiplied by the flares destruction efficiency of 98%.

Gas Component Data								
Component	Mole %	Mole Wt. (g/mol)*	Component Mole Wt. (g)	Weight %	Pounds	Tons	Pure Component LHV (btu/scf)*	Component BTU LHV in Mixture (btu/scf)
Nitrogen	1.13	28.01	0.32	0.01	3,281.42	1.64	N/A	N/A
H_2S	0.96	34.08	0.33	0.01	3,379.06	1.69	586.80	5.61
Methane	74.97	16.04	12.03	0.55	124,678.66	62.34	909.40	681.78
Carbon Dio.	4.56	44.01	2.01	0.09	20,803.38	10.40	N/A	N/A
Ethane	8.90	30.07	2.68	0.12	27,742.36	13.87	1,618.70	144.06
Propane	4.66	44.10	2.05	0.09	21,301.75	10.65	2,314.90	107.87
ISO Butane	0.88	58.12	0.51	0.02	5,302.23	2.65	3,000.40	26.40
N-Butane	1.63	58.12	0.95	0.04	9,821.18	4.91	3,010.80	49.08
ISO-Pentane	0.53	72.15	0.38	0.02	3,964.05	1.98	3,699.00	19.60
N-Pentane	0.39	72.15	0.28	0.01	2,916.94	1.46	3,706.90	14.46
Hexanes +***	0.50	86.18	0.43	0.02	4,466.70	2.23	4,403.80	22.02
Total Components	99.11%		21.96	100.00%	227,657.73	113.83		1,070.89
Total C3+	8.59%		4.61	20.98%	47,772.85	23.89		239.43

* Data from the GPSA - Engineering Data Book 11th Edition, Figure 23-2; page 23-4 "FPS Volumes I & II ver. 2000"

*** Hexanes +, calculated on mole weight of Hexane

Number	MCF
1	3,723
Total	3,723

Emission Event Calculation Sheet

Vent Emissions	
Emissions	Lbs
H_2S	2,652.50
Propane	16,721.51
ISO Butane	4,162.16
N-Butane	7,709.46
ISO-Pentane	3,111.71
N-Pentane	2,289.75
Hexanes +	3,506.29
VOC Total	37,500.87

Flare Emissions	
Emissions	Lbs
NOx	422.52
NO	22.24
CO	862.20
SO_2	4,881.60
Propane	334.43
ISO Butane	83.24
N-Butane	154.19
ISO-Pentane	62.23
N-Pentane	45.79
Hexanes +	70.13
H2S	53.05
VOC Total	750.02

Flared?	yes

Reportable Event Determination			Event Duration (Hr)
			19
Emissions	Amount	Reportable	Event lb/hr
NOx	422.52	No	22.238016
NO	22.24	No	1.170422
CO	862.20	No	45.378802
SO_2	4,881.60	No	256.926502
Propane	334.43	No	17.601588
ISO Butane	83.24	No	4.381222
N-Butane	154.19	No	8.115217
ISO-Pentane	62.23	No	3.275483
N-Pentane	45.79	No	2.410261
Hexanes +	70.13	No	3.690827
H2S	53.05	No	2.792109
VOC Total	750.02	No	39.474599
Flare Reportable	No		
Vent Reportable	Not Applicable		

Reportable Event*	No

*If Reportable Event is greater than 0 then the event is reportable.

Emission Calculation Information Emergency Flare	
Volume mmscf	2.9224
Btu/scf (LHV)	1070.8883
Total mmbtu	3129.5726
Lbs NOx/mmbtu*	0.1380
Fuel Bound NOx*	.5 wt % NH3 in fuel
Lbs CO/mmbtu*	0.2755
Lbs H_2S**	98% Dest. Eff.
Lbs VOC***	98% Dest. Eff.
gm-moles/scf	1.2630
gm/lbs	453.5924

Convert From (ppm to Mole %)		Convert From (Mole % to ppm)	
H_2S (ppm)	H_2S Mole %	H_2S Mole %	H_2S (ppm)
0	0	0.96	9564.2857

*Emission Calculation Based on TNRCC: RG-109 (October 2000) - Air Permit Technical Guidance for Chemical Sources: Flare and Vapor Oxidizers

**H_2S emissions calculated from weight of gas sent to the flare and multiplied by the flares destruction efficiency of 98%, assuming 98% H_2S by weight is converted to SO_2.

***Speciated VOC emissions calculated from weight of gas sent to flare multiplied by the flares destruction efficiency of 98%.

Gas Component Data								
Component	Mole %	Mole Wt. (g/mol)*	Component Mole Wt. (g)	Weight %	Pounds	Tons	Pure Component LHV (btu/scf)*	Component BTU LHV in Mixture (btu/scf)
Nitrogen	1.13	28.01	0.32	0.01	2,575.86	1.29	N/A	N/A
H_2S	0.96	34.08	0.33	0.01	2,652.50	1.33	586.80	5.61
Methane	74.97	16.04	12.03	0.55	97,870.62	48.94	909.40	681.78
Carbon Dio.	4.56	44.01	2.01	0.09	16,330.30	8.17	N/A	N/A
Ethane	8.90	30.07	2.68	0.12	21,777.28	10.89	1,618.70	144.06
Propane	4.66	44.10	2.05	0.09	16,721.51	8.36	2,314.90	107.87
ISO Butane	0.88	58.12	0.51	0.02	4,162.16	2.08	3,000.40	26.40
N-Butane	1.63	58.12	0.95	0.04	7,709.46	3.85	3,010.80	49.08
ISO-Pentane	0.53	72.15	0.38	0.02	3,111.71	1.56	3,699.00	19.60
N-Pentane	0.39	72.15	0.28	0.01	2,289.75	1.14	3,706.90	14.46
Hexanes +***	0.50	86.18	0.43	0.02	3,506.29	1.75	4,403.80	22.02
Total Components	99.11%		21.96	100.00%	178,707.43	89.35		1,070.89
Total C3+	8.59%		4.61	20.98%	37,500.87	18.75		239.43

* Data from the GPSA - Engineering Data Book 11th Edition, Figure 23-2; page 23-4 "FPS Volumes I & II ver. 2000"

*** Hexanes +, calculated on mole weight of Hexane

Number	MCF
1	2,922
Total	2,922

November 15, 2024

Mr. Nelson Velez
New Mexico, Oil Conservation Division
District II – Artesia
811 S. First Street
Artesia, New Mexico 88210

RE: Fire Closure Request
Dark Horse Treating Facility (nAPP2334345415)
Pinon Midstream, LLC
Lea County, New Mexico

Mr. Velez,

This closure request is related to a fire that occurred at Pinon Midstream, LLC's ("Piñon") Dark Horse Treating Facility ("Facility") which occurred on November 25, 2023. Piñon is requesting concurrence on the closure of the fire after final excavation activities.

Executive Summary

On November 25, 2023, Piñon operators at the Facility witnessed the sudden and uncontrolled release of sour natural gas at the inlet of the Facility. As Piñon operators attempted to isolate the release, the vapor cloud ignited resulting in an intense and sustained fire at the inlet of the Facility. The fire was sustained until November 28, 2023, when the remaining fuel sources were exhausted, and any small remaining fire was completely extinguished.

Excavation and Disposal

Excavation and disposal of fire impacted soils was conducted via mechanical digging. All impacted soil was excavated and removed from the Facility between November 28, 2023 through January 12, 2024. Recovered impacted soils were removed from the Facility and shipped as exploration and production exempt waste to the nearby R360 Environmental Solutions in Hobbs, New Mexico. Photos of the impact of the fire on the Facility and upon reclamation is included with our submission as Appendix B – Photo Log.

Sampling

Confirmation sampling was conducted at the site on December 11, 2023 and September 19, 2024. Samples were compared to Table 1 of the New Mexico Spill Rule NMAC 19.15.29. For the purposes of this closure request, sample results were compared to Table 1 limits associated with ground water less than 50 feet below ground surface. Laboratory samples and a table comparing the sample results to the Table 1 limits can be found attached to this request as Appendix C – Laboratory Analytical Results.

Please do not hesitate to contact Kaitlyn Lopez at klopez@pinonmidstream.com or (713) 834-4247 if you have any questions or require further information regarding this matter.

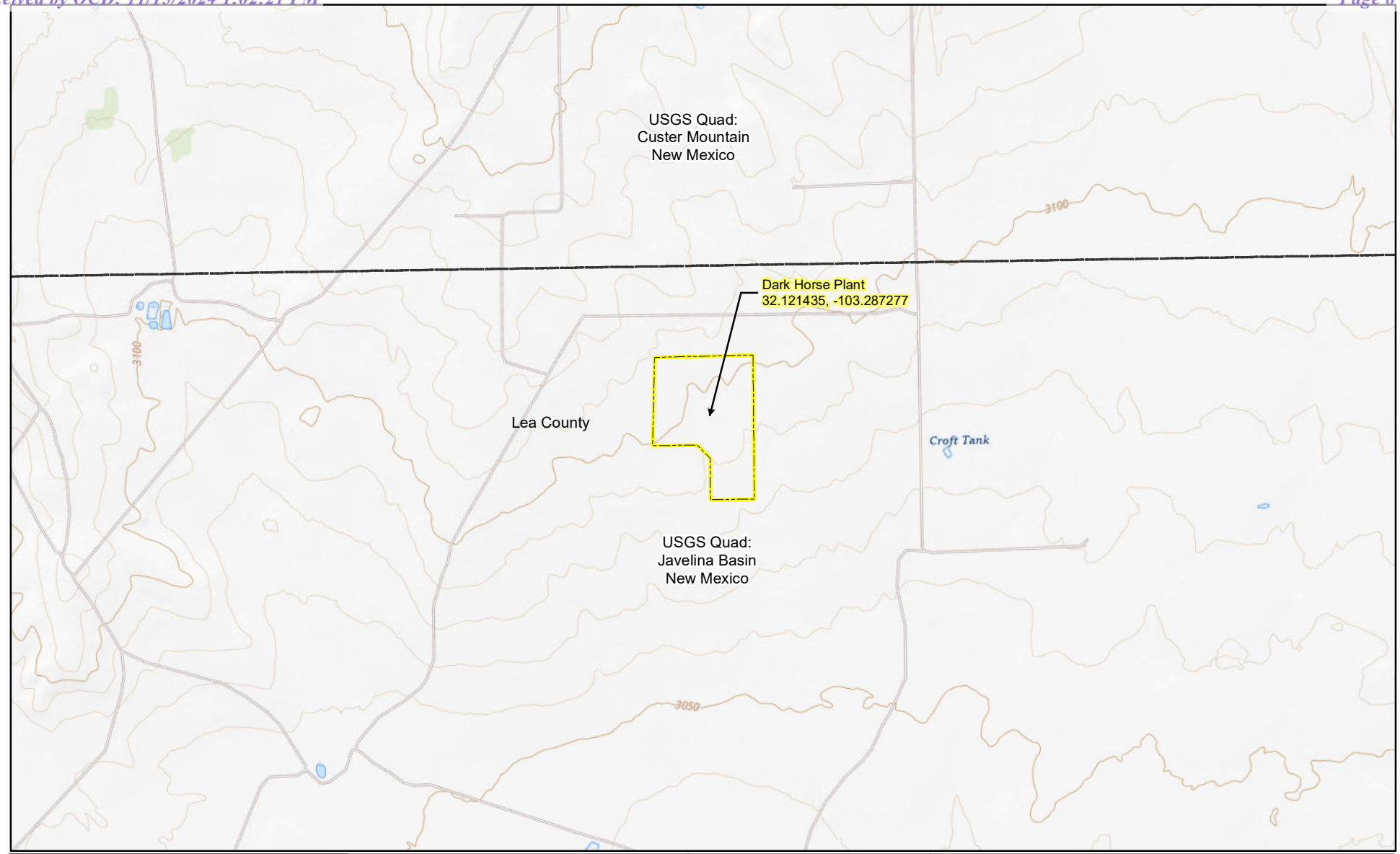
Respectfully,

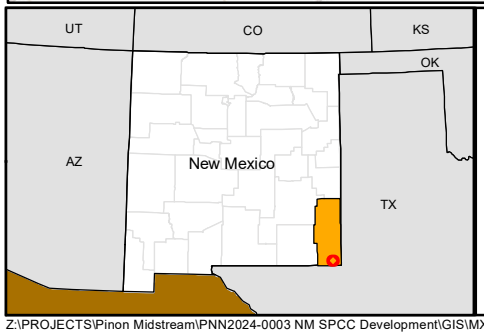
Kaitlyn Lopez

Kaitlyn Lopez
Regional Compliance Director

Attachments: Appendix A – Figures
Appendix B – Photo Log
Appendix C – Laboratory Analytical Results
Appendix D – Reports and Variances

Appendix A Figures





Legend

Property Boundary

N

0 1,000 2,000

Feet

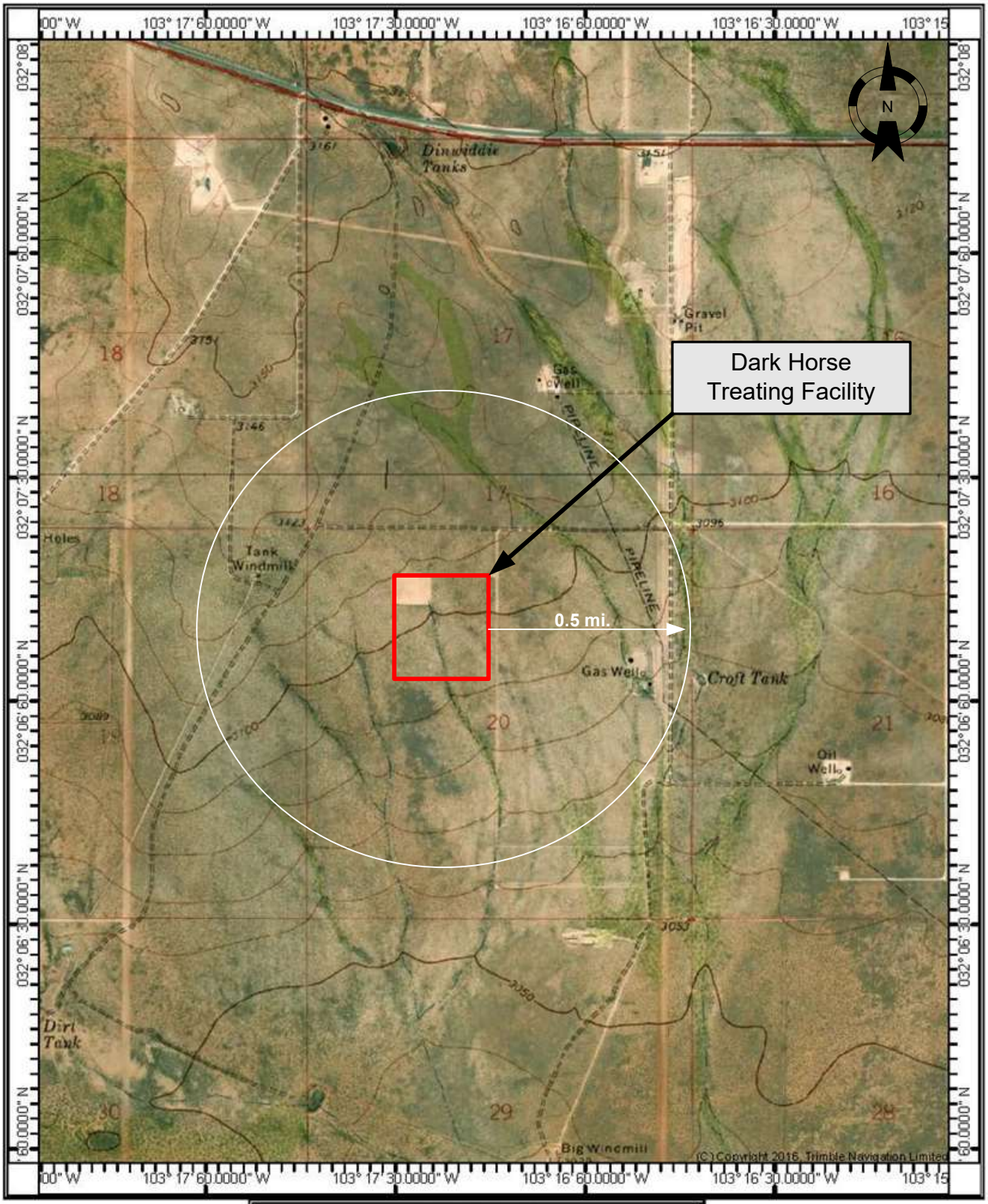
Scale: 1:24,000

EDGE ENGINEERING & SCIENCE

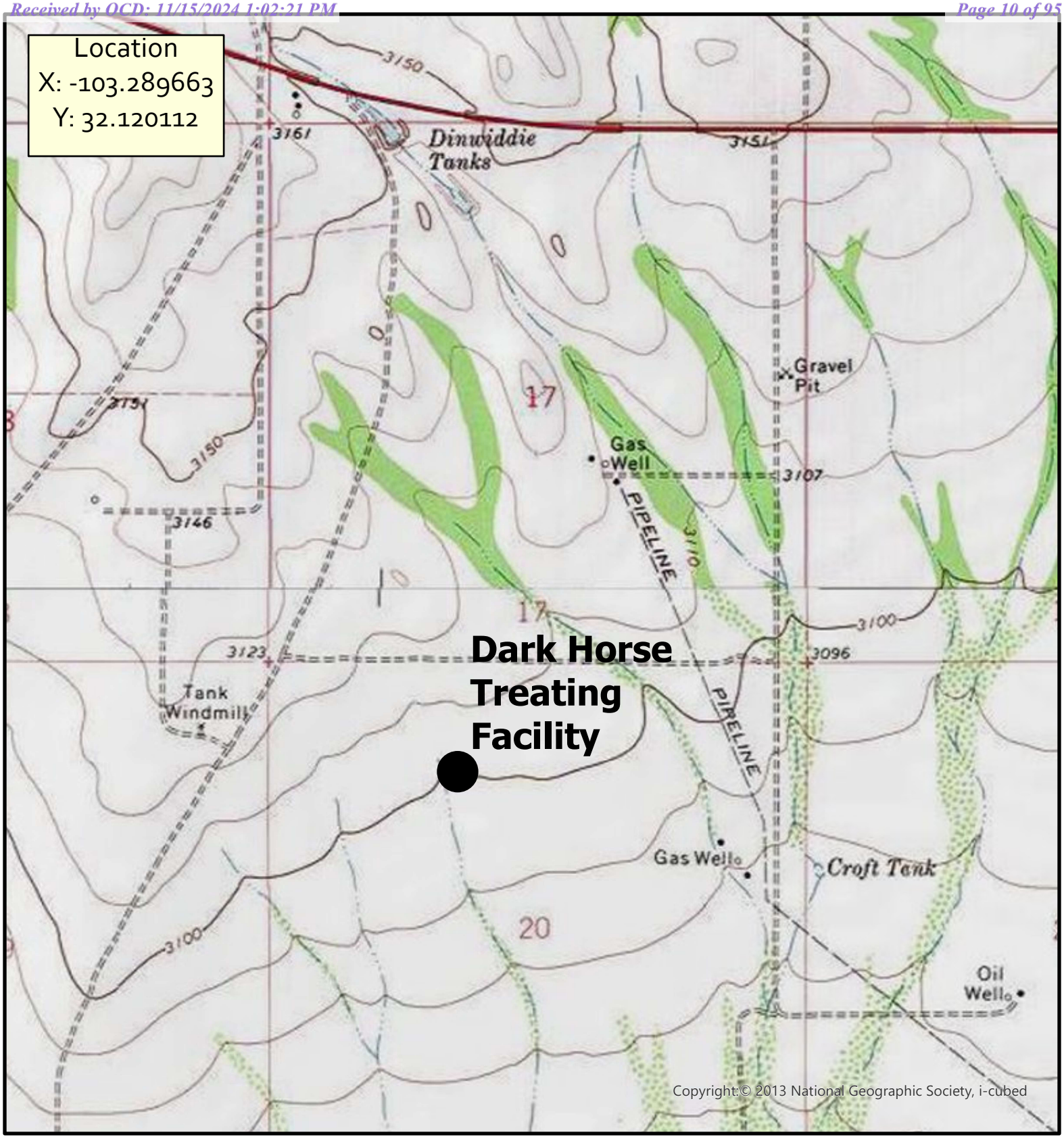
Figure 1
Site Location Map

Piñon Midstream
Dark Horse Treating Facility
465 West NM Highway 128
Jal, New Mexico 88252

Z:\PROJECTS\Pinon Midstream\PNN2024-0003 NM SPCC Development\GIS\MXD\Figure 1 Site Location Map Dark Horse Plant.mxd



ALLIANT ENVIRONMENTAL, LLC	**Area Map**	**Piñon Midstream, LLC**
Scale: **1:20,000** / Drawn by: MDF / Date: 10/18/2023 / Chk'd by: / Date:	**Dark Horse Treating Facility** N 32° 7' 12.40" Latitude W 103° 17' 22.79" Longitude	Project No.: / File Name: **Dark Horse TF Diagrams** / Figure:



0 1,000 2,000 4,000 Feet

N

RESOLUTE COMPLIANCE, LLC
Purposeful Solutions. Unwavering Service.

Piñon Midstream
Dark Horse Treating Facility
Lea County, New Mexico

Project No. Env-Pinon- White Horse
Report No. SPCC - 0017
Date: September 2021

Site Location Map

FIGURE 1

NM OCD OIL AND GAS MAP New Mexico Oil Conservation Division NM OCD Oil and Gas Map User Guide

32.120112, -103.289663

Show search results for 32...

Legend

Permian Basin Karst Areas

Critical Karst Resource Area

Karst Occurrence Potential

Potential

- High
- Medium
- Low

Public Land Survey System (PLSS)

PLSS First Division

PLSS Second Division

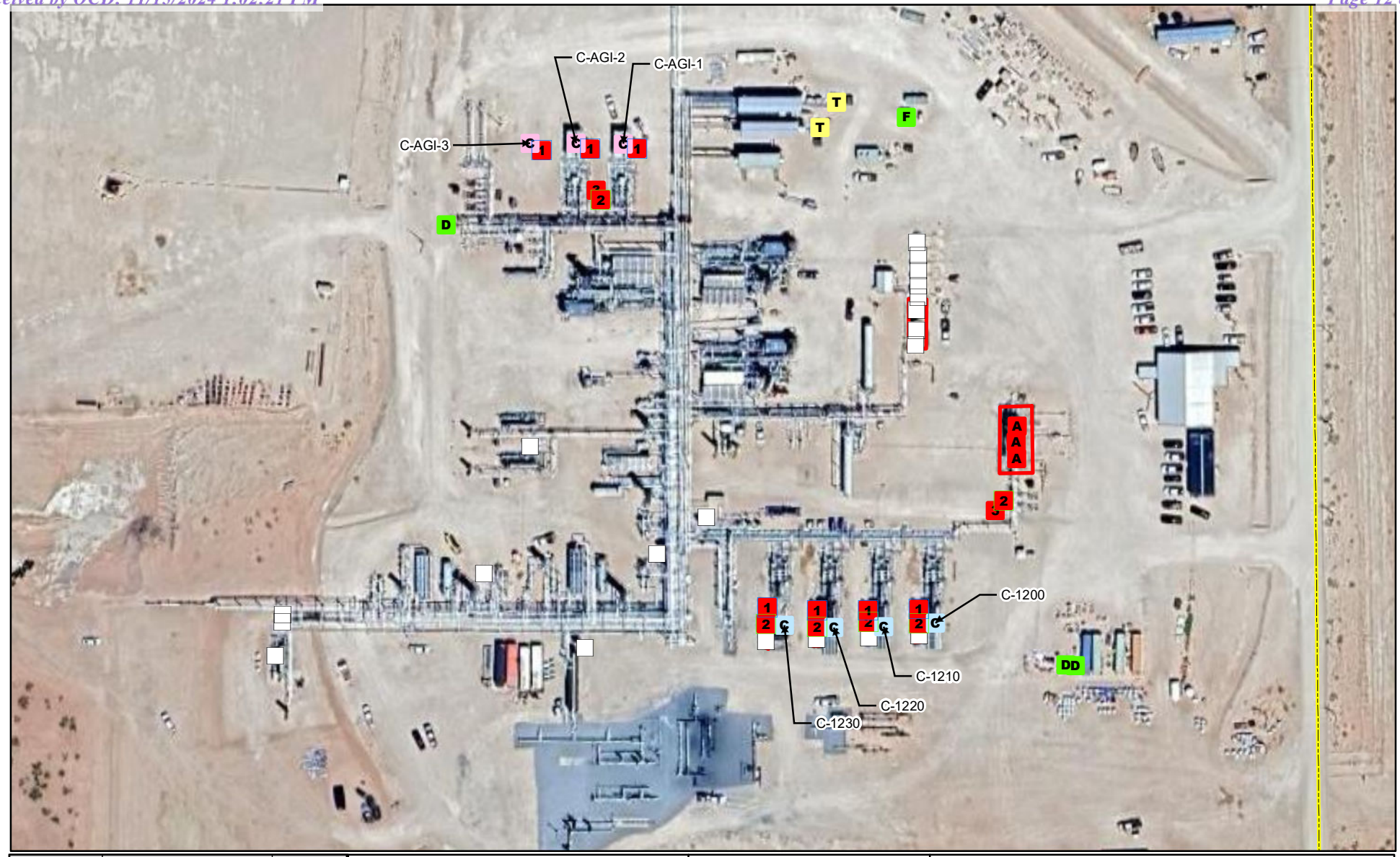
NWNW (D) NENW (C) NWNE (B)

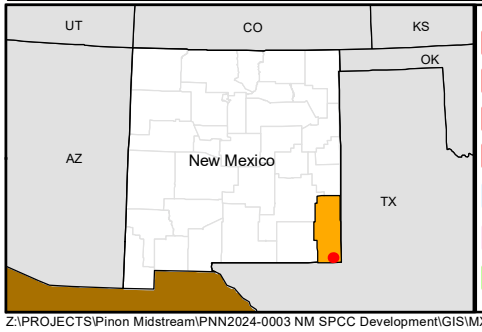
20

SWNW (E) SENW (F) SWNE (G)

60m
200ft -103.29318 32.12008 Degrees

Esri Community Maps Contributors, Texas Parks & Wildlife, © OpenStreetMap, Microsoft, CONANP, Esri, T...





Legend

- 1 850-gallon Engine Oil AST
- 2 500-gallon Engine Oil AST
- 3 330-gallon Engine Oil Tote
- A 275-gallon Engine Oil Tote
- C Compressor (105-gallon capacity)
- C Compressor (85-gallon capacity)
- D 500-gallon Diesel AST
- F 1,890-gallon Diesel Fuel Cube
- T Transformer
- Non-regulated AST
- Steel Containment
- Property Boundary
- Poly A Containment
- Poly B Containment

N

0 50 100

Feet

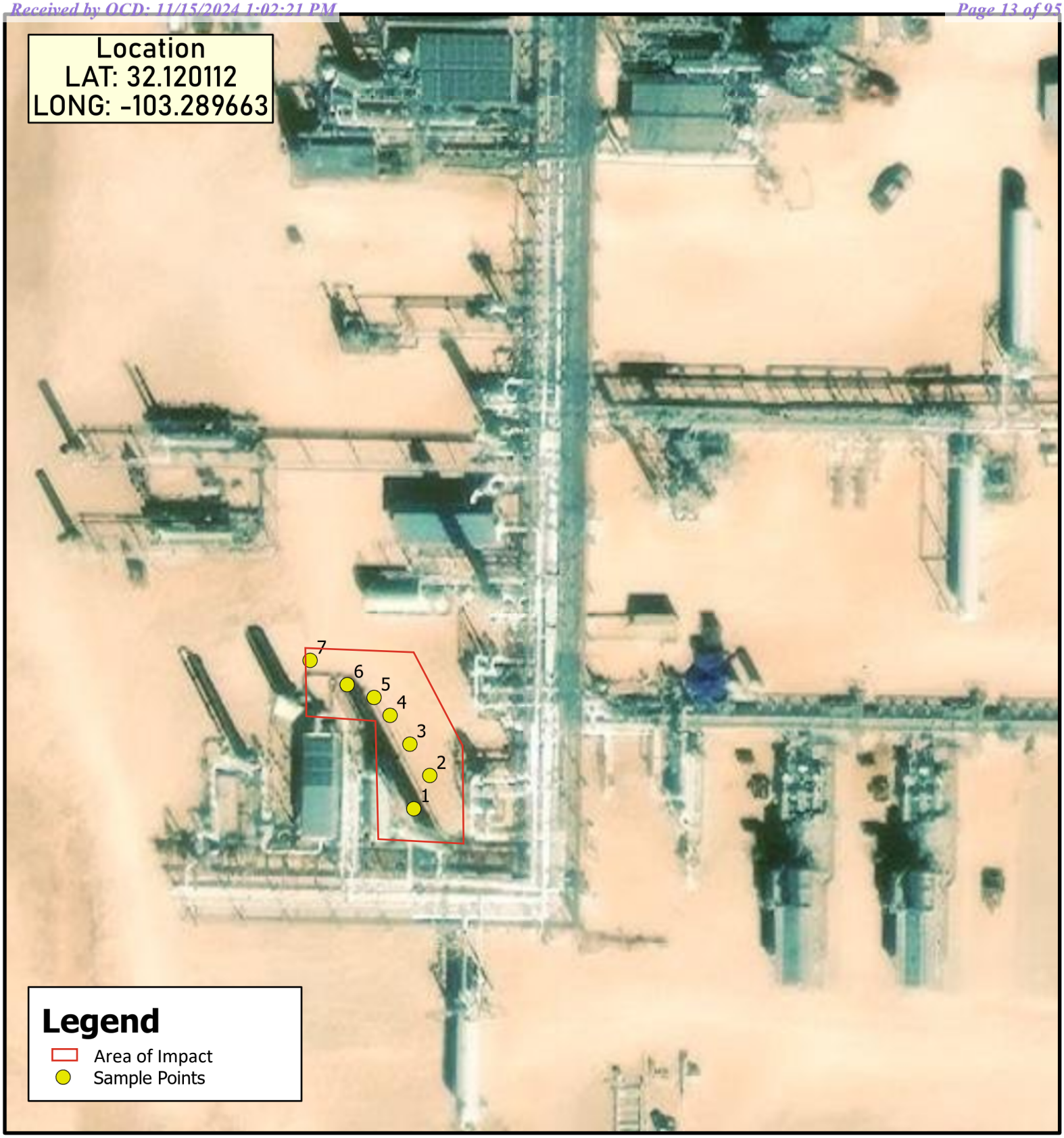
Scale: 1:1,620

EDGE ENGINEERING & SCIENCE

Figure 2
Site Details Map

Piñon Midstream
Dark Horse Treating Facility
465 West NM Highway 128
Jal, New Mexico 88252

Z:\PROJECTS\Pinon Midstream\PNN2024-0003 NM SPCC Development\GIS\MXD\Figure 2 Site Details Map Dark Horse Plant.mxd



	Dark Horse Treating Facility Piñon Midstream Lea County, New Mexico	Project No. Env-Pinon-Dark Horse Report No. Release - 0037 Date: December 2023
	Sample Locations	

Appendix B Photo Log

Image 1 – Facility post-fire, pre-remedial activities.

Image 2 – Facility during remediation and reconstruction activities.

Image 3 – Facility post-remediation and reconstruction activities.

Appendix C Laboratory Analytical Results

Analytical Results Summary

SUMMARY OF ANALYTICAL RESULTS

Criteria Exceedance	Criteria	Below Criteria

SAMPLE ID	SAMPLE DATE	SAMPLE DEPTH (IN)	Chloride (mg/kg)	Chloride Closure Criteria (mg/kg)	Total TPH (mg/kg)	Total TPH Closure Criteria (mg/kg)	GRO+DRO (mg/kg)	GRO+DRO Closure Criteria (mg/kg)	Benzene (mg/kg)	Benzene Closure Criteria (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	m,p-Xylenes (mg/kg)	o-Xylene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	BTEX Closure Criteria (mg/kg)
Dark Horse 1	12/11/2023	--	35	600	372	100	0	1000	0.002	10	0.002	0.002	0.00399	0.002	0.0039	0.0039	50
Dark Horse 2	12/11/2023	--	11.4	600	302	100	0	1000	0.00225	10	0.0064	0.002	0.00901	0.00507	0.0141	0.248	50
Dark Horse 3	12/11/2023	--	24.2	600	387	100	0	1000	0.101	10	0.379	0.0765	0.368	0.16	0.5285	1.08	50
Dark Horse 4	12/11/2023	--	24.5	600	127	100	0	1000	0.002	10	0.002	0.002	0.004	0.002	0.004	0.004	50
Dark Horse 5	12/11/2023	--	16.5	600	72.7	100	0	1000	0.002	10	0.002	0.002	0.004	0.002	0.004	0.004	50
Dark Horse 6	12/11/2023	--	81.1	600	57.8	100	0	1000	0.002	10	0.002	0.002	0.004	0.002	0.004	0.004	50
Dark Horse 7	12/11/2023	--	21.2	600	57.8	100	0	1000	0.002	10	0.002	0.002	0.004	0.002	0.004	0.004	50
Dark Horse 1	9/19/2024	6" - 12"	8.62	600	50	100	0	1000	0.002	10	0.00199	0.00199	0.00398	0.00199	0.00398	0.00398	50
Dark Horse 2	9/20/2024	6" - 12"	22.1	600	49.8	100	0	1000	0.00199	10	0.00199	0.00199	0.00398	0.00199	0.00398	0.00398	50
Dark Horse 3	9/21/2024	6" - 12"	12.7	600	49.8	100	0	1000	0.002	10	0.002	0.002	0.004	0.002	0.004	0.004	50
Dark Horse 4	9/22/2024	6" - 12"	13.3	600	49.7	100	0	1000	0.002	10	0.002	0.002	0.00401	0.002	0.00401	0.00401	50
Dark Horse 5 - 2	9/23/2024	6" - 12"	93.4	600	49.7	100	0	1000	0.002	10	0.002	0.002	0.00399	0.002	0.00399	0.00399	50
Dark Horse 6 - 2	9/24/2024	6" - 12"	33	600	50	100	0	1000	0.00202	10	0.00202	0.00202	0.00403	0.00202	0.00403	0.00403	50
Dark Horse 7 - 2	9/25/2024	6" - 12"	58.2	600	49.8	100	0	1000	0.00199	10	0.00199	0.00199	0.00398	0.00199	0.00398	0.00398	50

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Grant McAfee
Resolute Compliance LLC
115 FM 2453
Suite A
Royse City, Texas 75189

Generated 12/13/2023 10:24:49 AM

JOB DESCRIPTION

Pinan White House & Dark House

JOB NUMBER

880-36795-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated
12/13/2023 10:24:49 AM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Resolute Compliance LLC
Project/Site: Pinan White House & Dark House

Laboratory Job ID: 880-36795-1

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Definitions/Glossary

Client: Resolute Compliance LLC Job ID: 880-36795-1
Project/Site: Pinan White House & Dark House

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery 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
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
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Resolute Compliance LLC Job ID: 880-36795-1
Project/Site: Pinan White House & Dark House

Job ID: 880-36795-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-36795-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt
The samples were received on 12/12/2023 8:25 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.5°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: White House #1 (880-36795-1), White House #2 (880-36795-2), White House #3 (880-36795-3), Dark House #1 (880-36795-4), Dark House #2 (880-36795-5), Dark House #3 (880-36795-6), Dark House #4 (880-36795-7), Dark House #5 (880-36795-8), Dark House #6 (880-36795-9), Dark House #7 (880-36795-10) and Dark House #8 (880-36795-11).

GC VOA
Method 8021B: Surrogate recovery for the following sample was outside control limits: Dark House #3 (880-36795-6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-68892 and 880-68892 and analytical batch 880-68889 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

GC Semi VOA
Method TX_1005: The surrogate recovery for the blank associated with preparation batch 880-68897 and analytical batch 880-68882 was outside the upper control limits.

Method TX_1005: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-68897 and analytical batch 880-68882 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

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

Client Sample Results

Client: Resolute Compliance LLC Job ID: 880-36795-1
Project/Site: Pinan White House & Dark House

Client Sample ID: White House #1 Lab Sample ID: 880-36795-1

Date Collected: 12/11/23 11:50 **Matrix: Solid**
Date Received: 12/12/23 08:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/12/23 11:12	12/12/23 14:00	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/12/23 11:12	12/12/23 14:00	1
Ethylbenzene	<0.00199	U F1	0.00199		mg/Kg		12/12/23 11:12	12/12/23 14:00	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/12/23 11:12	12/12/23 14:00	1
o-Xylene	<0.00199	U F1	0.00199		mg/Kg		12/12/23 11:12	12/12/23 14:00	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/12/23 11:12	12/12/23 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*	*12/12/23 11:12*	*12/12/23 14:00*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*12/12/23 11:12*	*12/12/23 14:00*	*1*

Method: TAL SOP 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			12/12/23 14:00	1

Method: TCEQ TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12 Range Hydrocarbons	<49.9	U	49.9		mg/Kg		12/12/23 09:48	12/12/23 10:42	1
>C12-C28 Range Hydrocarbons	**182**	**F1**	49.9		mg/Kg		12/12/23 09:48	12/12/23 10:42	1
>C28-C35 Range Hydrocarbons	<49.9	U	49.9		mg/Kg		12/12/23 09:48	12/12/23 10:42	1
Total Petroleum Hydrocarbons (C6-C35)	**182**		49.9		mg/Kg			12/12/23 10:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*93*		*70 - 130*	*12/12/23 09:48*	*12/12/23 10:42*	*1*
o-Terphenyl (Surr)	*101*		*70 - 130*	*12/12/23 09:48*	*12/12/23 10:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**212**		5.03		mg/Kg			12/13/23 00:34	1

Client Sample ID: White House #2 Lab Sample ID: 880-36795-2

Date Collected: 12/11/23 12:00 **Matrix: Solid**
Date Received: 12/12/23 08:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/12/23 11:12	12/12/23 14:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/12/23 11:12	12/12/23 14:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/12/23 11:12	12/12/23 14:20	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/12/23 11:12	12/12/23 14:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/12/23 11:12	12/12/23 14:20	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/12/23 11:12	12/12/23 14:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*12/12/23 11:12*	*12/12/23 14:20*	*1*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*	*12/12/23 11:12*	*12/12/23 14:20*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/12/23 14:20	1

Client Sample Results

Client: Resolute Compliance LLC Job ID: 880-36795-1
Project/Site: Pinan White House & Dark House

Client Sample ID: White House #2 Lab Sample ID: 880-36795-2

Date Collected: 12/11/23 12:00 **Matrix: Solid**
Date Received: 12/12/23 08:25

Method: TCEQ TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12 Range Hydrocarbons	<49.8	U	49.8		mg/Kg		12/12/23 09:48	12/12/23 11:48	1
>C12-C28 Range Hydrocarbons	**290**		49.8		mg/Kg		12/12/23 09:48	12/12/23 11:48	1
>C28-C35 Range Hydrocarbons	<49.8	U	49.8		mg/Kg		12/12/23 09:48	12/12/23 11:48	1
Total Petroleum Hydrocarbons (C6-C35)	**290**		49.8		mg/Kg			12/12/23 11:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*89*		*70 - 130*	*12/12/23 09:48*	*12/12/23 11:48*	*1*
o-Terphenyl (Surr)	*97*		*70 - 130*	*12/12/23 09:48*	*12/12/23 11:48*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**26.4**		4.98		mg/Kg			12/13/23 00:53	1

Client Sample ID: White House #3 Lab Sample ID: 880-36795-3

Date Collected: 12/11/23 12:10 **Matrix: Solid**
Date Received: 12/12/23 08:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/12/23 11:12	12/12/23 14:41	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/12/23 11:12	12/12/23 14:41	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/12/23 11:12	12/12/23 14:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/12/23 11:12	12/12/23 14:41	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/12/23 11:12	12/12/23 14:41	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/12/23 11:12	12/12/23 14:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*12/12/23 11:12*	*12/12/23 14:41*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*12/12/23 11:12*	*12/12/23 14:41*	*1*

Method: TAL SOP 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			12/12/23 14:41	1

Method: TCEQ TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12 Range Hydrocarbons	<49.7	U	49.7		mg/Kg		12/12/23 09:48	12/12/23 12:11	1
>C12-C28 Range Hydrocarbons	**472**		49.7		mg/Kg		12/12/23 09:48	12/12/23 12:11	1
>C28-C35 Range Hydrocarbons	<49.7	U	49.7		mg/Kg		12/12/23 09:48	12/12/23 12:11	1
Total Petroleum Hydrocarbons (C6-C35)	**472**		49.7		mg/Kg			12/12/23 12:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*102*		*70 - 130*	*12/12/23 09:48*	*12/12/23 12:11*	*1*
o-Terphenyl (Surr)	*102*		*70 - 130*	*12/12/23 09:48*	*12/12/23 12:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**30.8**		5.02		mg/Kg			12/13/23 01:00	1

Client Sample Results

Client: Resolute Compliance LLC
Job ID: 880-36795-1
Project/Site: Pinan White House & Dark House

Client Sample ID: Dark House #1
Lab Sample ID: 880-36795-4
Date Collected: 12/11/23 14:30
Matrix: Solid
Date Received: 12/12/23 08:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/12/23 11:12	12/12/23 15:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/12/23 11:12	12/12/23 15:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/12/23 11:12	12/12/23 15:01	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/12/23 11:12	12/12/23 15:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/12/23 11:12	12/12/23 15:01	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/12/23 11:12	12/12/23 15:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*12/12/23 11:12*	*12/12/23 15:01*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*12/12/23 11:12*	*12/12/23 15:01*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/12/23 15:01	1

Method: TCEQ TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12 Range Hydrocarbons	<50.0	U	50.0		mg/Kg		12/12/23 09:48	12/12/23 12:34	1
>C12-C28 Range Hydrocarbons	**372**		50.0		mg/Kg		12/12/23 09:48	12/12/23 12:34	1
>C28-C35 Range Hydrocarbons	<50.0	U	50.0		mg/Kg		12/12/23 09:48	12/12/23 12:34	1
Total Petroleum Hydrocarbons (C6-C35)	**372**		50.0		mg/Kg			12/12/23 12:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*94*		*70 - 130*	*12/12/23 09:48*	*12/12/23 12:34*	*1*
o-Terphenyl (Surr)	*107*		*70 - 130*	*12/12/23 09:48*	*12/12/23 12:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**35.0**		4.97		mg/Kg			12/13/23 01:06	1

Client Sample ID: Dark House #2
Lab Sample ID: 880-36795-5
Date Collected: 12/11/23 14:40
Matrix: Solid
Date Received: 12/12/23 08:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00225**		0.00200		mg/Kg		12/12/23 11:12	12/12/23 15:22	1
Toluene	**0.00640**		0.00200		mg/Kg		12/12/23 11:12	12/12/23 15:22	1
Ethylbenzene	**0.00202**		0.00200		mg/Kg		12/12/23 11:12	12/12/23 15:22	1
m-Xylene & p-Xylene	**0.00901**		0.00401		mg/Kg		12/12/23 11:12	12/12/23 15:22	1
o-Xylene	**0.00507**		0.00200		mg/Kg		12/12/23 11:12	12/12/23 15:22	1
Xylenes, Total	**0.0141**		0.00401		mg/Kg		12/12/23 11:12	12/12/23 15:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*	*12/12/23 11:12*	*12/12/23 15:22*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*12/12/23 11:12*	*12/12/23 15:22*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0248**		0.00401		mg/Kg			12/12/23 15:22	1

Client Sample Results

Client: Resolute Compliance LLC Job ID: 880-36795-1
Project/Site: Pinan White House & Dark House

Client Sample ID: Dark House #2 Lab Sample ID: 880-36795-5

Date Collected: 12/11/23 14:40 **Matrix: Solid**
Date Received: 12/12/23 08:25

Method: TCEQ TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12 Range Hydrocarbons	136		50.2		mg/Kg		12/12/23 09:48	12/12/23 12:57	1
>C12-C28 Range Hydrocarbons	166		50.2		mg/Kg		12/12/23 09:48	12/12/23 12:57	1
>C28-C35 Range Hydrocarbons	<50.2	U	50.2		mg/Kg		12/12/23 09:48	12/12/23 12:57	1
Total Petroleum Hydrocarbons (C6-C35)	302		50.2		mg/Kg			12/12/23 12:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*106*		*70 - 130*	*12/12/23 09:48*	*12/12/23 12:57*	*1*
o-Terphenyl (Surr)	*115*		*70 - 130*	*12/12/23 09:48*	*12/12/23 12:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.4		4.96		mg/Kg			12/13/23 01:13	1

Client Sample ID: Dark House #3 Lab Sample ID: 880-36795-6

Date Collected: 12/11/23 14:50 **Matrix: Solid**
Date Received: 12/12/23 08:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.101		0.00199		mg/Kg		12/12/23 11:12	12/12/23 15:42	1
Toluene	0.379		0.00199		mg/Kg		12/12/23 11:12	12/12/23 15:42	1
Ethylbenzene	0.0765		0.00199		mg/Kg		12/12/23 11:12	12/12/23 15:42	1
m-Xylene & p-Xylene	0.368		0.00398		mg/Kg		12/12/23 11:12	12/12/23 15:42	1
o-Xylene	0.160		0.00199		mg/Kg		12/12/23 11:12	12/12/23 15:42	1
Xylenes, Total	0.528		0.00398		mg/Kg		12/12/23 11:12	12/12/23 15:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*66*	*S1-*	*70 - 130*	*12/12/23 11:12*	*12/12/23 15:42*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*12/12/23 11:12*	*12/12/23 15:42*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	1.08		0.00398		mg/Kg			12/12/23 15:42	1

Method: TCEQ TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12 Range Hydrocarbons	236		50.4		mg/Kg		12/12/23 09:48	12/12/23 13:19	1
>C12-C28 Range Hydrocarbons	151		50.4		mg/Kg		12/12/23 09:48	12/12/23 13:19	1
>C28-C35 Range Hydrocarbons	<50.4	U	50.4		mg/Kg		12/12/23 09:48	12/12/23 13:19	1
Total Petroleum Hydrocarbons (C6-C35)	387		50.4		mg/Kg			12/12/23 13:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*112*		*70 - 130*	*12/12/23 09:48*	*12/12/23 13:19*	*1*
o-Terphenyl (Surr)	*108*		*70 - 130*	*12/12/23 09:48*	*12/12/23 13:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24.2		5.02		mg/Kg			12/13/23 01:32	1

Client Sample Results

Client: Resolute Compliance LLC Job ID: 880-36795-1
Project/Site: Pinan White House & Dark House

Client Sample ID: Dark House #4 Lab Sample ID: 880-36795-7

Date Collected: 12/11/23 15:00 **Matrix: Solid**
Date Received: 12/12/23 08:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/12/23 11:12	12/12/23 16:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/12/23 11:12	12/12/23 16:03	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/12/23 11:12	12/12/23 16:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/12/23 11:12	12/12/23 16:03	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/12/23 11:12	12/12/23 16:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/12/23 11:12	12/12/23 16:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*12/12/23 11:12*	*12/12/23 16:03*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*12/12/23 11:12*	*12/12/23 16:03*	*1*

Method: TAL SOP 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			12/12/23 16:03	1

Method: TCEQ TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12 Range Hydrocarbons	<50.5	U	50.5		mg/Kg		12/12/23 09:48	12/12/23 13:42	1
>C12-C28 Range Hydrocarbons	**127**		50.5		mg/Kg		12/12/23 09:48	12/12/23 13:42	1
>C28-C35 Range Hydrocarbons	<50.5	U	50.5		mg/Kg		12/12/23 09:48	12/12/23 13:42	1
Total Petroleum Hydrocarbons (C6-C35)	**127**		50.5		mg/Kg			12/12/23 13:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*115*		*70 - 130*	*12/12/23 09:48*	*12/12/23 13:42*	*1*
o-Terphenyl (Surr)	*125*		*70 - 130*	*12/12/23 09:48*	*12/12/23 13:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**24.5**		5.03		mg/Kg			12/13/23 01:39	1

Client Sample ID: Dark House #5 Lab Sample ID: 880-36795-8

Date Collected: 12/11/23 15:10 **Matrix: Solid**
Date Received: 12/12/23 08:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/12/23 11:12	12/12/23 16:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/12/23 11:12	12/12/23 16:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/12/23 11:12	12/12/23 16:23	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/12/23 11:12	12/12/23 16:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/12/23 11:12	12/12/23 16:23	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/12/23 11:12	12/12/23 16:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*12/12/23 11:12*	*12/12/23 16:23*	*1*
1,4-Difluorobenzene (Surr)	*119*		*70 - 130*	*12/12/23 11:12*	*12/12/23 16:23*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/12/23 16:23	1

Client Sample Results

Client: Resolute Compliance LLC Job ID: 880-36795-1
Project/Site: Pinan White House & Dark House

Client Sample ID: Dark House #5 Lab Sample ID: 880-36795-8

Date Collected: 12/11/23 15:10 **Matrix: Solid**
Date Received: 12/12/23 08:25

Method: TCEQ TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12 Range Hydrocarbons	<49.7	U	49.7		mg/Kg		12/12/23 09:48	12/12/23 14:05	1
>C12-C28 Range Hydrocarbons	**72.7**		49.7		mg/Kg		12/12/23 09:48	12/12/23 14:05	1
>C28-C35 Range Hydrocarbons	<49.7	U	49.7		mg/Kg		12/12/23 09:48	12/12/23 14:05	1
Total Petroleum Hydrocarbons (C6-C35)	**72.7**		49.7		mg/Kg			12/12/23 14:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*88*		*70 - 130*	*12/12/23 09:48*	*12/12/23 14:05*	*1*
o-Terphenyl (Surr)	*101*		*70 - 130*	*12/12/23 09:48*	*12/12/23 14:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**16.5**		5.00		mg/Kg			12/13/23 01:45	1

Client Sample ID: Dark House #6 Lab Sample ID: 880-36795-9

Date Collected: 12/11/23 15:20 **Matrix: Solid**
Date Received: 12/12/23 08:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/12/23 11:12	12/12/23 16:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/12/23 11:12	12/12/23 16:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/12/23 11:12	12/12/23 16:44	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/12/23 11:12	12/12/23 16:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/12/23 11:12	12/12/23 16:44	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/12/23 11:12	12/12/23 16:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*12/12/23 11:12*	*12/12/23 16:44*	*1*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*	*12/12/23 11:12*	*12/12/23 16:44*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			12/12/23 16:44	1

Method: TCEQ TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12 Range Hydrocarbons	<50.0	U	50.0		mg/Kg		12/12/23 09:48	12/12/23 14:27	1
>C12-C28 Range Hydrocarbons	**57.8**		50.0		mg/Kg		12/12/23 09:48	12/12/23 14:27	1
>C28-C35 Range Hydrocarbons	<50.0	U	50.0		mg/Kg		12/12/23 09:48	12/12/23 14:27	1
Total Petroleum Hydrocarbons (C6-C35)	**57.8**		50.0		mg/Kg			12/12/23 14:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*110*		*70 - 130*	*12/12/23 09:48*	*12/12/23 14:27*	*1*
o-Terphenyl (Surr)	*124*		*70 - 130*	*12/12/23 09:48*	*12/12/23 14:27*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**81.1**		4.99		mg/Kg			12/13/23 01:52	1

Client Sample Results

Client: Resolute Compliance LLC
Project/Site: Pinan White House & Dark House

Job ID: 880-36795-1

Client Sample ID: Dark House #7

Date Collected: 12/11/23 15:30
Date Received: 12/12/23 08:25

Lab Sample ID: 880-36795-10

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		12/12/23 11:12	12/12/23 18:54	1
Toluene	<0.00198	U	0.00198		mg/Kg		12/12/23 11:12	12/12/23 18:54	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		12/12/23 11:12	12/12/23 18:54	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		12/12/23 11:12	12/12/23 18:54	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		12/12/23 11:12	12/12/23 18:54	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		12/12/23 11:12	12/12/23 18:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*	*12/12/23 11:12*	*12/12/23 18:54*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*12/12/23 11:12*	*12/12/23 18:54*	*1*

Method: TAL SOP 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			12/12/23 18:54	1

Method: TCEQ TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12 Range Hydrocarbons	<49.9	U	49.9		mg/Kg		12/12/23 09:48	12/12/23 14:48	1
>C12-C28 Range Hydrocarbons	<49.9	U	49.9		mg/Kg		12/12/23 09:48	12/12/23 14:48	1
>C28-C35 Range Hydrocarbons	<49.9	U	49.9		mg/Kg		12/12/23 09:48	12/12/23 14:48	1
Total Petroleum Hydrocarbons (C6-C35)	<49.9	U	49.9		mg/Kg			12/12/23 14:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*93*		*70 - 130*	*12/12/23 09:48*	*12/12/23 14:48*	*1*
o-Terphenyl (Surr)	*104*		*70 - 130*	*12/12/23 09:48*	*12/12/23 14:48*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**21.2**		4.98		mg/Kg			12/13/23 01:59	1

Surrogate Summary

Client: Resolute Compliance LLC
Project/Site: Pinan White House & Dark House

Job ID: 880-36795-1

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-36795-1	White House #1	83	110
880-36795-1 MS	White House #1	116	117
880-36795-1 MSD	White House #1	95	107
880-36795-2	White House #2	91	116
880-36795-3	White House #3	91	108
880-36795-4	Dark House #1	94	106
880-36795-5	Dark House #2	83	105
880-36795-6	Dark House #3	66 S1-	102
880-36795-7	Dark House #4	96	108
880-36795-8	Dark House #5	102	119
880-36795-9	Dark House #6	93	116
880-36795-10	Dark House #7	85	107
LCS 880-68892/1-A	Lab Control Sample	98	98
LCSD 880-68892/2-A	Lab Control Sample Dup	99	107
MB 880-68892/5-A	Method Blank	96	129

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO	OTPH
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-36795-1	White House #1	93	101
880-36795-1 MS	White House #1	106	96
880-36795-1 MSD	White House #1	108	99
880-36795-2	White House #2	89	97
880-36795-3	White House #3	102	102
880-36795-4	Dark House #1	94	107
880-36795-5	Dark House #2	106	115
880-36795-6	Dark House #3	112	108
880-36795-7	Dark House #4	115	125
880-36795-8	Dark House #5	88	101
880-36795-9	Dark House #6	110	124
880-36795-10	Dark House #7	93	104
LCS 880-68897/2-A	Lab Control Sample	108	122
LCSD 880-68897/3-A	Lab Control Sample Dup	100	109
MB 880-68897/1-A	Method Blank	137 S1+	166 S1+

Surrogate Legend

1CO = 1-Chlorooctane (Surr)
OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Resolute Compliance LLC
Project/Site: Pinan White House & Dark House

Job ID: 880-36795-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-68892/5-A
Matrix: Solid
Analysis Batch: 68889

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 68892

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/12/23 11:20	12/12/23 13:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/12/23 11:20	12/12/23 13:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/12/23 11:20	12/12/23 13:31	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/12/23 11:20	12/12/23 13:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/12/23 11:20	12/12/23 13:31	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/12/23 11:20	12/12/23 13:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*12/12/23 11:20*	*12/12/23 13:31*	*1*
1,4-Difluorobenzene (Surr)	*129*		*70 - 130*	*12/12/23 11:20*	*12/12/23 13:31*	*1*

Lab Sample ID: LCS 880-68892/1-A
Matrix: Solid
Analysis Batch: 68889

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 68892

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1038		mg/Kg		104	70 - 130
Toluene	0.100	0.09472		mg/Kg		95	70 - 130
Ethylbenzene	0.100	0.09784		mg/Kg		98	70 - 130
m-Xylene & p-Xylene	0.200	0.1832		mg/Kg		92	70 - 130
o-Xylene	0.100	0.07947		mg/Kg		79	70 - 130

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

Lab Sample ID: LCSD 880-68892/2-A
Matrix: Solid
Analysis Batch: 68889

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 68892

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1124		mg/Kg		112	70 - 130	8	35
Toluene	0.100	0.09172		mg/Kg		92	70 - 130	3	35
Ethylbenzene	0.100	0.09574		mg/Kg		96	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1894		mg/Kg		95	70 - 130	3	35
o-Xylene	0.100	0.08386		mg/Kg		84	70 - 130	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: 880-36795-1 MS
Matrix: Solid
Analysis Batch: 68889

Client Sample ID: White House #1
Prep Type: Total/NA
Prep Batch: 68892

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.1212		mg/Kg		122	70 - 130
Toluene	<0.00199	U	0.0996	0.07893		mg/Kg		79	70 - 130

QC Sample Results

Client: Resolute Compliance LLC Job ID: 880-36795-1
Project/Site: Pinan White House & Dark House

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

Lab Sample ID: 880-36795-1 MS **Client Sample ID: White House #1**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 68889 **Prep Batch: 68892**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U F1	0.0996	0.06569	F1	mg/Kg		66	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1803		mg/Kg		91	70 - 130
o-Xylene	<0.00199	U F1	0.0996	0.08558		mg/Kg		85	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*

Lab Sample ID: 880-36795-1 MSD **Client Sample ID: White House #1**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 68889 **Prep Batch: 68892**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0990	0.1043		mg/Kg		105	70 - 130	15	35
Toluene	<0.00199	U	0.0990	0.07890		mg/Kg		79	70 - 130	0	35
Ethylbenzene	<0.00199	U F1	0.0990	0.07804		mg/Kg		79	70 - 130	17	35
m-Xylene & p-Xylene	<0.00398	U	0.198	0.1548		mg/Kg		78	70 - 130	15	35
o-Xylene	<0.00199	U F1	0.0990	0.06287	F1	mg/Kg		63	70 - 130	31	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Lab Sample ID: MB 880-68897/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 68882 **Prep Batch: 68897**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12 Range Hydrocarbons	<50.0	U	50.0		mg/Kg		12/12/23 07:48	12/12/23 08:12	1
>C12-C28 Range Hydrocarbons	<50.0	U	50.0		mg/Kg		12/12/23 07:48	12/12/23 08:12	1
>C28-C35 Range Hydrocarbons	<50.0	U	50.0		mg/Kg		12/12/23 07:48	12/12/23 08:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*137*	*S1+*	*70 - 130*	*12/12/23 07:48*	*12/12/23 08:12*	*1*
o-Terphenyl (Surr)	*166*	*S1+*	*70 - 130*	*12/12/23 07:48*	*12/12/23 08:12*	*1*

Lab Sample ID: LCS 880-68897/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 68882 **Prep Batch: 68897**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C6-C12 Range Hydrocarbons			1000	943.4		mg/Kg		94	75 - 125
>C12-C28 Range Hydrocarbons			1000	984.5		mg/Kg		98	75 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*108*		*70 - 130*

QC Sample Results

Client: Resolute Compliance LLC
Project/Site: Pinan White House & Dark House

Job ID: 880-36795-1

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC) (Continued)

Lab Sample ID: LCS 880-68897/2-A
Matrix: Solid
Analysis Batch: 68882

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 68897

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl (Surr)	122		70 - 130

Lab Sample ID: LCSD 880-68897/3-A
Matrix: Solid
Analysis Batch: 68882

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 68897

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C6-C12 Range Hydrocarbons			1000	994.1		mg/Kg		99	75 - 125	5	25
>C12-C28 Range Hydrocarbons			1000	1058		mg/Kg		106	75 - 125	7	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	100		70 - 130
o-Terphenyl (Surr)	109		70 - 130

Lab Sample ID: 880-36795-1 MS
Matrix: Solid
Analysis Batch: 68882

Client Sample ID: White House #1
Prep Type: Total/NA
Prep Batch: 68897

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
C6-C12 Range Hydrocarbons	<49.9	U	1000	1079		mg/Kg		105	75 - 125
>C12-C28 Range Hydrocarbons	182	F1	1000	756.8	F1	mg/Kg		57	75 - 125

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane (Surr)	106		70 - 130
o-Terphenyl (Surr)	96		70 - 130

Lab Sample ID: 880-36795-1 MSD
Matrix: Solid
Analysis Batch: 68882

Client Sample ID: White House #1
Prep Type: Total/NA
Prep Batch: 68897

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C6-C12 Range Hydrocarbons	<49.9	U	1000	1095		mg/Kg		107	75 - 125	1	25
>C12-C28 Range Hydrocarbons	182	F1	1000	751.6	F1	mg/Kg		57	75 - 125	1	25

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane (Surr)	108		70 - 130
o-Terphenyl (Surr)	99		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-68942/1-A
Matrix: Solid
Analysis Batch: 68951

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			12/13/23 00:14	1

QC Sample Results

Client: Resolute Compliance LLC
Project/Site: Pinan White House & Dark House

Job ID: 880-36795-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-68942/2-A
Matrix: Solid
Analysis Batch: 68951

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	256.2		mg/Kg		102	90 - 110		

Lab Sample ID: LCSD 880-68942/3-A
Matrix: Solid
Analysis Batch: 68951

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	249.9		mg/Kg		100	90 - 110	2	20

Lab Sample ID: 880-36795-1 MS
Matrix: Solid
Analysis Batch: 68951

Client Sample ID: White House #1
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	212		252	470.3		mg/Kg		103	90 - 110		

Lab Sample ID: 880-36795-1 MSD
Matrix: Solid
Analysis Batch: 68951

Client Sample ID: White House #1
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	212		252	472.1		mg/Kg		103	90 - 110	0	20

QC Association Summary

Client: Resolute Compliance LLC
Job ID: 880-36795-1
Project/Site: Pinan White House & Dark House

GC VOA

Analysis Batch: 68889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36795-1	White House #1	Total/NA	Solid	8021B	68892
880-36795-2	White House #2	Total/NA	Solid	8021B	68892
880-36795-3	White House #3	Total/NA	Solid	8021B	68892
880-36795-4	Dark House #1	Total/NA	Solid	8021B	68892
880-36795-5	Dark House #2	Total/NA	Solid	8021B	68892
880-36795-6	Dark House #3	Total/NA	Solid	8021B	68892
880-36795-7	Dark House #4	Total/NA	Solid	8021B	68892
880-36795-8	Dark House #5	Total/NA	Solid	8021B	68892
880-36795-9	Dark House #6	Total/NA	Solid	8021B	68892
880-36795-10	Dark House #7	Total/NA	Solid	8021B	68892
MB 880-68892/5-A	Method Blank	Total/NA	Solid	8021B	68892
LCS 880-68892/1-A	Lab Control Sample	Total/NA	Solid	8021B	68892
LCSD 880-68892/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	68892
880-36795-1 MS	White House #1	Total/NA	Solid	8021B	68892
880-36795-1 MSD	White House #1	Total/NA	Solid	8021B	68892

Prep Batch: 68892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36795-1	White House #1	Total/NA	Solid	5035	
880-36795-2	White House #2	Total/NA	Solid	5035	
880-36795-3	White House #3	Total/NA	Solid	5035	
880-36795-4	Dark House #1	Total/NA	Solid	5035	
880-36795-5	Dark House #2	Total/NA	Solid	5035	
880-36795-6	Dark House #3	Total/NA	Solid	5035	
880-36795-7	Dark House #4	Total/NA	Solid	5035	
880-36795-8	Dark House #5	Total/NA	Solid	5035	
880-36795-9	Dark House #6	Total/NA	Solid	5035	
880-36795-10	Dark House #7	Total/NA	Solid	5035	
MB 880-68892/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-68892/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-68892/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-36795-1 MS	White House #1	Total/NA	Solid	5035	
880-36795-1 MSD	White House #1	Total/NA	Solid	5035	

Analysis Batch: 69008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36795-1	White House #1	Total/NA	Solid	Total BTEX	
880-36795-2	White House #2	Total/NA	Solid	Total BTEX	
880-36795-3	White House #3	Total/NA	Solid	Total BTEX	
880-36795-4	Dark House #1	Total/NA	Solid	Total BTEX	
880-36795-5	Dark House #2	Total/NA	Solid	Total BTEX	
880-36795-6	Dark House #3	Total/NA	Solid	Total BTEX	
880-36795-7	Dark House #4	Total/NA	Solid	Total BTEX	
880-36795-8	Dark House #5	Total/NA	Solid	Total BTEX	
880-36795-9	Dark House #6	Total/NA	Solid	Total BTEX	
880-36795-10	Dark House #7	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Resolute Compliance LLC
Project/Site: Pinan White House & Dark House

Job ID: 880-36795-1

GC Semi VOA

Analysis Batch: 68882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36795-1	White House #1	Total/NA	Solid	TX 1005	68897
880-36795-2	White House #2	Total/NA	Solid	TX 1005	68897
880-36795-3	White House #3	Total/NA	Solid	TX 1005	68897
880-36795-4	Dark House #1	Total/NA	Solid	TX 1005	68897
880-36795-5	Dark House #2	Total/NA	Solid	TX 1005	68897
880-36795-6	Dark House #3	Total/NA	Solid	TX 1005	68897
880-36795-7	Dark House #4	Total/NA	Solid	TX 1005	68897
880-36795-8	Dark House #5	Total/NA	Solid	TX 1005	68897
880-36795-9	Dark House #6	Total/NA	Solid	TX 1005	68897
880-36795-10	Dark House #7	Total/NA	Solid	TX 1005	68897
MB 880-68897/1-A	Method Blank	Total/NA	Solid	TX 1005	68897
LCS 880-68897/2-A	Lab Control Sample	Total/NA	Solid	TX 1005	68897
LCSD 880-68897/3-A	Lab Control Sample Dup	Total/NA	Solid	TX 1005	68897
880-36795-1 MS	White House #1	Total/NA	Solid	TX 1005	68897
880-36795-1 MSD	White House #1	Total/NA	Solid	TX 1005	68897

Prep Batch: 68897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36795-1	White House #1	Total/NA	Solid	TX_1005_S_Prep	
880-36795-2	White House #2	Total/NA	Solid	TX_1005_S_Prep	
880-36795-3	White House #3	Total/NA	Solid	TX_1005_S_Prep	
880-36795-4	Dark House #1	Total/NA	Solid	TX_1005_S_Prep	
880-36795-5	Dark House #2	Total/NA	Solid	TX_1005_S_Prep	
880-36795-6	Dark House #3	Total/NA	Solid	TX_1005_S_Prep	
880-36795-7	Dark House #4	Total/NA	Solid	TX_1005_S_Prep	
880-36795-8	Dark House #5	Total/NA	Solid	TX_1005_S_Prep	
880-36795-9	Dark House #6	Total/NA	Solid	TX_1005_S_Prep	
880-36795-10	Dark House #7	Total/NA	Solid	TX_1005_S_Prep	
MB 880-68897/1-A	Method Blank	Total/NA	Solid	TX_1005_S_Prep	
LCS 880-68897/2-A	Lab Control Sample	Total/NA	Solid	TX_1005_S_Prep	
LCSD 880-68897/3-A	Lab Control Sample Dup	Total/NA	Solid	TX_1005_S_Prep	
880-36795-1 MS	White House #1	Total/NA	Solid	TX_1005_S_Prep	
880-36795-1 MSD	White House #1	Total/NA	Solid	TX_1005_S_Prep	

Analysis Batch: 68989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36795-1	White House #1	Total/NA	Solid	TX 1005	
880-36795-2	White House #2	Total/NA	Solid	TX 1005	
880-36795-3	White House #3	Total/NA	Solid	TX 1005	
880-36795-4	Dark House #1	Total/NA	Solid	TX 1005	

QC Association Summary

Client: Resolute Compliance LLC Job ID: 880-36795-1
Project/Site: Pinan White House & Dark House

GC Semi VOA (Continued)

Analysis Batch: 68989 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36795-5	Dark House #2	Total/NA	Solid	TX 1005	
880-36795-6	Dark House #3	Total/NA	Solid	TX 1005	
880-36795-7	Dark House #4	Total/NA	Solid	TX 1005	
880-36795-8	Dark House #5	Total/NA	Solid	TX 1005	
880-36795-9	Dark House #6	Total/NA	Solid	TX 1005	
880-36795-10	Dark House #7	Total/NA	Solid	TX 1005	

HPLC/IC

Leach Batch: 68942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36795-1	White House #1	Soluble	Solid	DI Leach	
880-36795-2	White House #2	Soluble	Solid	DI Leach	
880-36795-3	White House #3	Soluble	Solid	DI Leach	
880-36795-4	Dark House #1	Soluble	Solid	DI Leach	
880-36795-5	Dark House #2	Soluble	Solid	DI Leach	
880-36795-6	Dark House #3	Soluble	Solid	DI Leach	
880-36795-7	Dark House #4	Soluble	Solid	DI Leach	
880-36795-8	Dark House #5	Soluble	Solid	DI Leach	
880-36795-9	Dark House #6	Soluble	Solid	DI Leach	
880-36795-10	Dark House #7	Soluble	Solid	DI Leach	
MB 880-68942/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-68942/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-68942/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-36795-1 MS	White House #1	Soluble	Solid	DI Leach	
880-36795-1 MSD	White House #1	Soluble	Solid	DI Leach	

Analysis Batch: 68951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36795-1	White House #1	Soluble	Solid	300.0	68942
880-36795-2	White House #2	Soluble	Solid	300.0	68942
880-36795-3	White House #3	Soluble	Solid	300.0	68942
880-36795-4	Dark House #1	Soluble	Solid	300.0	68942
880-36795-5	Dark House #2	Soluble	Solid	300.0	68942
880-36795-6	Dark House #3	Soluble	Solid	300.0	68942
880-36795-7	Dark House #4	Soluble	Solid	300.0	68942
880-36795-8	Dark House #5	Soluble	Solid	300.0	68942
880-36795-9	Dark House #6	Soluble	Solid	300.0	68942
880-36795-10	Dark House #7	Soluble	Solid	300.0	68942
MB 880-68942/1-A	Method Blank	Soluble	Solid	300.0	68942
LCS 880-68942/2-A	Lab Control Sample	Soluble	Solid	300.0	68942
LCSD 880-68942/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	68942
880-36795-1 MS	White House #1	Soluble	Solid	300.0	68942
880-36795-1 MSD	White House #1	Soluble	Solid	300.0	68942

Lab Chronicle

Client: Resolute Compliance LLC Job ID: 880-36795-1
Project/Site: Pinan White House & Dark House

Client Sample ID: White House #1 Lab Sample ID: 880-36795-1

Date Collected: 12/11/23 11:50 **Matrix: Solid**
Date Received: 12/12/23 08:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	68892	12/12/23 11:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68889	12/12/23 14:00	SM	EET MID
Total/NA	Analysis	Total BTEX		1			69008	12/12/23 14:00	SM	EET MID
Total/NA	Prep	TX_1005_S_Prep			10.02 g	10 mL	68897	12/12/23 09:48	TKC	EET MID
Total/NA	Analysis	TX 1005		1	1 uL	1 uL	68882	12/12/23 10:42	SM	EET MID
Total/NA	Analysis	TX 1005		1			68989	12/12/23 10:42	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	68942	12/12/23 14:30	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	68951	12/13/23 00:34	CH	EET MID

Client Sample ID: White House #2 Lab Sample ID: 880-36795-2

Date Collected: 12/11/23 12:00 **Matrix: Solid**
Date Received: 12/12/23 08:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	68892	12/12/23 11:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68889	12/12/23 14:20	SM	EET MID
Total/NA	Analysis	Total BTEX		1			69008	12/12/23 14:20	SM	EET MID
Total/NA	Prep	TX_1005_S_Prep			10.04 g	10 mL	68897	12/12/23 09:48	TKC	EET MID
Total/NA	Analysis	TX 1005		1	1 uL	1 uL	68882	12/12/23 11:48	SM	EET MID
Total/NA	Analysis	TX 1005		1			68989	12/12/23 11:48	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	68942	12/12/23 14:30	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	68951	12/13/23 00:53	CH	EET MID

Client Sample ID: White House #3 Lab Sample ID: 880-36795-3

Date Collected: 12/11/23 12:10 **Matrix: Solid**
Date Received: 12/12/23 08:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	68892	12/12/23 11:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68889	12/12/23 14:41	SM	EET MID
Total/NA	Analysis	Total BTEX		1			69008	12/12/23 14:41	SM	EET MID
Total/NA	Prep	TX_1005_S_Prep			10.06 g	10 mL	68897	12/12/23 09:48	TKC	EET MID
Total/NA	Analysis	TX 1005		1	1 uL	1 uL	68882	12/12/23 12:11	SM	EET MID
Total/NA	Analysis	TX 1005		1			68989	12/12/23 12:11	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	68942	12/12/23 14:30	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	68951	12/13/23 01:00	CH	EET MID

Client Sample ID: Dark House #1 Lab Sample ID: 880-36795-4

Date Collected: 12/11/23 14:30 **Matrix: Solid**
Date Received: 12/12/23 08:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	68892	12/12/23 11:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68889	12/12/23 15:01	SM	EET MID
Total/NA	Analysis	Total BTEX		1			69008	12/12/23 15:01	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Resolute Compliance LLC
Project/Site: Pinan White House & Dark House

Job ID: 880-36795-1

Client Sample ID: Dark House #1

Lab Sample ID: 880-36795-4
Matrix: Solid
Date Collected: 12/11/23 14:30
Date Received: 12/12/23 08:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	TX_1005_S_Prep			10.01 g	10 mL	68897	12/12/23 09:48	TKC	EET MID
Total/NA	Analysis	TX 1005		1	1 uL	1 uL	68882	12/12/23 12:34	SM	EET MID
Total/NA	Analysis	TX 1005		1			68989	12/12/23 12:34	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	68942	12/12/23 14:30	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	68951	12/13/23 01:06	CH	EET MID

Client Sample ID: Dark House #2

Lab Sample ID: 880-36795-5
Matrix: Solid
Date Collected: 12/11/23 14:40
Date Received: 12/12/23 08:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	68892	12/12/23 11:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68889	12/12/23 15:22	SM	EET MID
Total/NA	Analysis	Total BTEX		1			69008	12/12/23 15:22	SM	EET MID
Total/NA	Prep	TX_1005_S_Prep			9.96 g	10 mL	68897	12/12/23 09:48	TKC	EET MID
Total/NA	Analysis	TX 1005		1	1 uL	1 uL	68882	12/12/23 12:57	SM	EET MID
Total/NA	Analysis	TX 1005		1			68989	12/12/23 12:57	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	68942	12/12/23 14:30	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	68951	12/13/23 01:13	CH	EET MID

Client Sample ID: Dark House #3

Lab Sample ID: 880-36795-6
Matrix: Solid
Date Collected: 12/11/23 14:50
Date Received: 12/12/23 08:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	68892	12/12/23 11:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68889	12/12/23 15:42	SM	EET MID
Total/NA	Analysis	Total BTEX		1			69008	12/12/23 15:42	SM	EET MID
Total/NA	Prep	TX_1005_S_Prep			9.93 g	10 mL	68897	12/12/23 09:48	TKC	EET MID
Total/NA	Analysis	TX 1005		1	1 uL	1 uL	68882	12/12/23 13:19	SM	EET MID
Total/NA	Analysis	TX 1005		1			68989	12/12/23 13:19	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	68942	12/12/23 14:30	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	68951	12/13/23 01:32	CH	EET MID

Client Sample ID: Dark House #4

Lab Sample ID: 880-36795-7
Matrix: Solid
Date Collected: 12/11/23 15:00
Date Received: 12/12/23 08:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	68892	12/12/23 11:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68889	12/12/23 16:03	SM	EET MID
Total/NA	Analysis	Total BTEX		1			69008	12/12/23 16:03	SM	EET MID
Total/NA	Prep	TX_1005_S_Prep			9.90 g	10 mL	68897	12/12/23 09:48	TKC	EET MID
Total/NA	Analysis	TX 1005		1	1 uL	1 uL	68882	12/12/23 13:42	SM	EET MID
Total/NA	Analysis	TX 1005		1			68989	12/12/23 13:42	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Resolute Compliance LLC
Job ID: 880-36795-1
Project/Site: Pinan White House & Dark House

Client Sample ID: Dark House #4
Lab Sample ID: 880-36795-7
Date Collected: 12/11/23 15:00
Matrix: Solid
Date Received: 12/12/23 08:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	68942	12/12/23 14:30	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	68951	12/13/23 01:39	CH	EET MID

Client Sample ID: Dark House #5
Lab Sample ID: 880-36795-8
Date Collected: 12/11/23 15:10
Matrix: Solid
Date Received: 12/12/23 08:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	68892	12/12/23 11:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68889	12/12/23 16:23	SM	EET MID
Total/NA	Analysis	Total BTEX		1			69008	12/12/23 16:23	SM	EET MID
Total/NA	Prep	TX_1005_S_Prep			10.07 g	10 mL	68897	12/12/23 09:48	TKC	EET MID
Total/NA	Analysis	TX 1005		1	1 uL	1 uL	68882	12/12/23 14:05	SM	EET MID
Total/NA	Analysis	TX 1005		1			68989	12/12/23 14:05	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	68942	12/12/23 14:30	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	68951	12/13/23 01:45	CH	EET MID

Client Sample ID: Dark House #6
Lab Sample ID: 880-36795-9
Date Collected: 12/11/23 15:20
Matrix: Solid
Date Received: 12/12/23 08:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	68892	12/12/23 11:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68889	12/12/23 16:44	SM	EET MID
Total/NA	Analysis	Total BTEX		1			69008	12/12/23 16:44	SM	EET MID
Total/NA	Prep	TX_1005_S_Prep			10.01 g	10 mL	68897	12/12/23 09:48	TKC	EET MID
Total/NA	Analysis	TX 1005		1	1 uL	1 uL	68882	12/12/23 14:27	SM	EET MID
Total/NA	Analysis	TX 1005		1			68989	12/12/23 14:27	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	68942	12/12/23 14:30	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	68951	12/13/23 01:52	CH	EET MID

Client Sample ID: Dark House #7
Lab Sample ID: 880-36795-10
Date Collected: 12/11/23 15:30
Matrix: Solid
Date Received: 12/12/23 08:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	68892	12/12/23 11:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68889	12/12/23 18:54	SM	EET MID
Total/NA	Analysis	Total BTEX		1			69008	12/12/23 18:54	SM	EET MID
Total/NA	Prep	TX_1005_S_Prep			10.03 g	10 mL	68897	12/12/23 09:48	TKC	EET MID
Total/NA	Analysis	TX 1005		1	1 uL	1 uL	68882	12/12/23 14:48	SM	EET MID
Total/NA	Analysis	TX 1005		1			68989	12/12/23 14:48	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	68942	12/12/23 14:30	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	68951	12/13/23 01:59	CH	EET MID

Lab Chronicle

Client: Resolute Compliance LLC
Job ID: 880-36795-1
Project/Site: Pinan White House & Dark House

Laboratory References:

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

Accreditation/Certification Summary

Client: Resolute Compliance LLC
Job ID: 880-36795-1
Project/Site: Pinan White House & Dark House

Laboratory: Eurofins Midland

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

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

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Total BTEX		Solid	Total BTEX

Method Summary

Client: Resolute Compliance LLC
Job ID: 880-36795-1
Project/Site: Pinan White House & Dark House

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
TX 1005	Texas - Total Petroleum Hydrocarbon (GC)	TCEQ	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID
TX_1005_S_Prep	Extraction - Texas Total petroleum Hyrdocarbons	TCEQ	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

TCEQ = Texas Commission of Environmental Quality

Laboratory References:

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

Sample Summary

Client: Resolute Compliance LLC
Job ID: 880-36795-1
Project/Site: Pinan White House & Dark House

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-36795-1	White House #1	Solid	12/11/23 11:50	12/12/23 08:25
880-36795-2	White House #2	Solid	12/11/23 12:00	12/12/23 08:25
880-36795-3	White House #3	Solid	12/11/23 12:10	12/12/23 08:25
880-36795-4	Dark House #1	Solid	12/11/23 14:30	12/12/23 08:25
880-36795-5	Dark House #2	Solid	12/11/23 14:40	12/12/23 08:25
880-36795-6	Dark House #3	Solid	12/11/23 14:50	12/12/23 08:25
880-36795-7	Dark House #4	Solid	12/11/23 15:00	12/12/23 08:25
880-36795-8	Dark House #5	Solid	12/11/23 15:10	12/12/23 08:25
880-36795-9	Dark House #6	Solid	12/11/23 15:20	12/12/23 08:25
880-36795-10	Dark House #7	Solid	12/11/23 15:30	12/12/23 08:25

CUSTODY RECORD and ANALYSIS REQUEST

IN-RANGE Environmental Consulting
6911 Burnett Ln. Midland Tx, 79705
InRangeEnvironmental@gmail.com

880-36795 Chain of Custody

12/13/2023

Results to: Grant McAfee + Jeff Jacobsen @ Resolute

Dan 432-741-1529

Phone: | Fax: | Project Name/Number: Pinon White Horse + Dark Horse

Sampling BY: MD

Sampling Identification:	# of Containers	Matrix: Water	Soil	Sludge	Other	Preserved: HNO3 (N)	H2SO4 (S)	HCL (C)	Ice/Ref (I)	None (N)	Other (O)	Sampling: Date	Time	Analysis Requested: TPH 1005	Chlorides	BTEX	Amines	H2S
White Horse #1	1		X						X			12/11/23	1150	X	X	X		
#2	1												1200	X	X	X		
#3	1												1210	X	X	X		
Dark Horse #1	2												1430	X	X	X	X	
#2	2												1440	X	X	X	X	
#3	2												1450	X	X	X	X	
#4	2												1500	X	X	X	X	
#5	2												1510	X	X	X	X	
#6	2												1520	X	X	X	X	
#7	2												1530	X	X	X	X	

Relinquished by:	Date	Time	Received by:	Date	Time
MD	12/12/23			12/12/23	825

Remarks: 4.3/4.5
Archer called to change TAT to RUSH

Page 1 of 2

Loc: 880
36795

12/13/2023

CUSTODY RECORD and ANALYSIS REQUEST

Results to: Grant McAfee +
Address: Jeff Jackson @ Resolute

IN-RANGE
Environmental Consulting

Daniel Archer Ow. / Operator
432-741-1529
6911 Burnett Ln. Midland Tx, 79705
InRangeEnvironmental@gmail.com

Phone: | Fax: | Project Name/Number: Pinon & Dark House

Sampling BY: MD

Sampling Identification:	# of Containers	Matrix: Water	Soil	Sludge	Other	Preserved: HNO3 (N)	H2SO4 (S)	HCL (C)	Ice/Ref (I)	None (N)	Other (O)	Sampling: Date	Time	Analysis Requested: TCLP Metals
Dark House #8	2		X						X	X		12/1/23	1535	X

Relinquished by:	Date	Time	Received by:	Date	Time
MD	12/12/23			12/12/23	825

Remarks: 4.3/4.5

Page 2 of 2

Login Sample Receipt Checklist

Client: Resolute Compliance LLC Job Number: 880-36795-1

Login Number: 36795 **List Source: Eurofins Midland**
List Number: 1
Creator: Rodriguez, Leticia

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kaithlyn Lopez
Pinon Midstream
757 N Elridge Pwky 1150
Houston, Texas 77079

Generated 9/20/2024 4:09:15 PM

JOB DESCRIPTION

Dark Horse

JOB NUMBER

880-48719-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

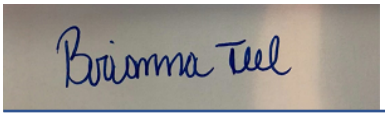
Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
9/20/2024 4:09:15 PM

Authorized for release by
Brianna Teel, Project Manager
Brianna.Teel@et.eurofinsus.com
(432)704-5440

Client: Pinon Midstream
Project/Site: Dark Horse

Laboratory Job ID: 880-48719-1

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Definitions/Glossary

Client: Pinon Midstream Job ID: 880-48719-1
Project/Site: Dark Horse

Qualifiers

GC VOA

Qualifier	Qualifier Description
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

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Pinon Midstream
Project: Dark Horse

Job ID: 880-48719-1

Job ID: 880-48719-1 Eurofins Midland

Job Narrative
880-48719-1

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

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

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

Receipt
The samples were received on 9/19/2024 2:00 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.5°C.

GC VOA
Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-91078 and analytical batch 880-91173 was outside the upper control limits.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-91221 and analytical batch 880-91173 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: Dark Horse #7 (880-48719-7). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside the upper control limit: Dark Horse #1 (880-48719-1) and Dark Horse #5 (880-48719-5). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

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

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

Hydrocarbons
Method TX_1005: The surrogate recovery for the blank associated with preparation batch 880-91250 and analytical batch 880-91162 was outside the upper control limits.

Method TX_1005: Surrogate recovery for the following samples were outside control limits: Dark Horse #5 (880-48719-5) and (LCSD 880-91250/3-A). Evidence of matrix interferences is not obvious.

Method TX_1005: The continuing calibration verification (CCV) associated with batch 880-91162 recovered below the lower control limit for >C12-C28 Range Hydrocarbons. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-91162/31).

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: Pinon Midstream
Project/Site: Dark Horse

Job ID: 880-48719-1

Client Sample ID: Dark Horse #1

Lab Sample ID: 880-48719-1
Matrix: Solid
Date Collected: 09/19/24 09:50
Date Received: 09/19/24 14:00
Sample Depth: 6"-12"

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/19/24 15:35	09/20/24 04:13	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/19/24 15:35	09/20/24 04:13	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/19/24 15:35	09/20/24 04:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/19/24 15:35	09/20/24 04:13	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/19/24 15:35	09/20/24 04:13	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/19/24 15:35	09/20/24 04:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*335*	*S1+*	*70 - 130*	*09/19/24 15:35*	*09/20/24 04:13*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*09/19/24 15:35*	*09/20/24 04:13*	*1*

Method: TAL SOP 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			09/20/24 04:13	1

Method: TCEQ TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12 Range Hydrocarbons	<50.0	U	50.0		mg/Kg		09/19/24 16:21	09/19/24 22:50	1
>C12-C28 Range Hydrocarbons	<50.0	U	50.0		mg/Kg		09/19/24 16:21	09/19/24 22:50	1
>C28-C35 Range Hydrocarbons	<50.0	U	50.0		mg/Kg		09/19/24 16:21	09/19/24 22:50	1
Total Petroleum Hydrocarbons (C6-C35)	<50.0	U	50.0		mg/Kg			09/19/24 22:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*111*		*70 - 130*	*09/19/24 16:21*	*09/19/24 22:50*	*1*
o-Terphenyl (Surr)	*109*		*70 - 130*	*09/19/24 16:21*	*09/19/24 22:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.62**		4.99		mg/Kg			09/20/24 09:59	1

Client Sample ID: Dark Horse #2

Lab Sample ID: 880-48719-2
Matrix: Solid
Date Collected: 09/19/24 10:00
Date Received: 09/19/24 14:00
Sample Depth: 6"-12"

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/19/24 15:35	09/20/24 06:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/19/24 15:35	09/20/24 06:03	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/19/24 15:35	09/20/24 06:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/19/24 15:35	09/20/24 06:03	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/19/24 15:35	09/20/24 06:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/19/24 15:35	09/20/24 06:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*09/19/24 15:35*	*09/20/24 06:03*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*09/19/24 15:35*	*09/20/24 06:03*	*1*

Client Sample Results

Client: Pinon Midstream
Project/Site: Dark Horse

Job ID: 880-48719-1

Client Sample ID: Dark Horse #2

Lab Sample ID: 880-48719-2
Matrix: Solid
Date Collected: 09/19/24 10:00
Date Received: 09/19/24 14:00
Sample Depth: 6"-12"

Method: TAL SOP 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			09/20/24 06:03	1

Method: TCEQ TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12 Range Hydrocarbons	<49.8	U	49.8		mg/Kg		09/19/24 16:21	09/19/24 23:10	1
>C12-C28 Range Hydrocarbons	<49.8	U	49.8		mg/Kg		09/19/24 16:21	09/19/24 23:10	1
>C28-C35 Range Hydrocarbons	<49.8	U	49.8		mg/Kg		09/19/24 16:21	09/19/24 23:10	1
Total Petroleum Hydrocarbons (C6-C35)	<49.8	U	49.8		mg/Kg			09/19/24 23:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*106*		*70 - 130*	*09/19/24 16:21*	*09/19/24 23:10*	*1*
o-Terphenyl (Surr)	*104*		*70 - 130*	*09/19/24 16:21*	*09/19/24 23:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**22.1**		4.96		mg/Kg			09/20/24 10:06	1

Client Sample ID: Dark Horse #3

Lab Sample ID: 880-48719-3
Matrix: Solid
Date Collected: 09/19/24 10:05
Date Received: 09/19/24 14:00
Sample Depth: 6"-12"

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/19/24 15:35	09/20/24 06:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/19/24 15:35	09/20/24 06:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/19/24 15:35	09/20/24 06:24	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/19/24 15:35	09/20/24 06:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/19/24 15:35	09/20/24 06:24	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/19/24 15:35	09/20/24 06:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*09/19/24 15:35*	*09/20/24 06:24*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*09/19/24 15:35*	*09/20/24 06:24*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			09/20/24 06:24	1

Method: TCEQ TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12 Range Hydrocarbons	<49.8	U	49.8		mg/Kg		09/19/24 16:21	09/19/24 23:30	1
>C12-C28 Range Hydrocarbons	<49.8	U	49.8		mg/Kg		09/19/24 16:21	09/19/24 23:30	1
>C28-C35 Range Hydrocarbons	<49.8	U	49.8		mg/Kg		09/19/24 16:21	09/19/24 23:30	1
Total Petroleum Hydrocarbons (C6-C35)	<49.8	U	49.8		mg/Kg			09/19/24 23:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*118*		*70 - 130*	*09/19/24 16:21*	*09/19/24 23:30*	*1*
o-Terphenyl (Surr)	*113*		*70 - 130*	*09/19/24 16:21*	*09/19/24 23:30*	*1*

Eurofins Midland

Client Sample Results

Client: Pinon Midstream
Project/Site: Dark Horse

Job ID: 880-48719-1

Client Sample ID: Dark Horse #3

Lab Sample ID: 880-48719-3
Matrix: Solid
Date Collected: 09/19/24 10:05
Date Received: 09/19/24 14:00
Sample Depth: 6"-12"

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.7		5.04		mg/Kg			09/20/24 10:13	1

Client Sample ID: Dark Horse #4

Lab Sample ID: 880-48719-4
Matrix: Solid
Date Collected: 09/19/24 10:10
Date Received: 09/19/24 14:00
Sample Depth: 6"-12"

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/19/24 15:35	09/20/24 06:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/19/24 15:35	09/20/24 06:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/19/24 15:35	09/20/24 06:44	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/19/24 15:35	09/20/24 06:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/19/24 15:35	09/20/24 06:44	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/19/24 15:35	09/20/24 06:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*09/19/24 15:35*	*09/20/24 06:44*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*09/19/24 15:35*	*09/20/24 06:44*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			09/20/24 06:44	1

Method: TCEQ TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12 Range Hydrocarbons	<49.7	U	49.7		mg/Kg		09/19/24 16:21	09/19/24 23:50	1
>C12-C28 Range Hydrocarbons	<49.7	U	49.7		mg/Kg		09/19/24 16:21	09/19/24 23:50	1
>C28-C35 Range Hydrocarbons	<49.7	U	49.7		mg/Kg		09/19/24 16:21	09/19/24 23:50	1
Total Petroleum Hydrocarbons (C6-C35)	<49.7	U	49.7		mg/Kg			09/19/24 23:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*113*		*70 - 130*	*09/19/24 16:21*	*09/19/24 23:50*	*1*
o-Terphenyl (Surr)	*114*		*70 - 130*	*09/19/24 16:21*	*09/19/24 23:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.3		5.02		mg/Kg			09/20/24 10:19	1

Client Sample ID: Dark Horse #5

Lab Sample ID: 880-48719-5
Matrix: Solid
Date Collected: 09/19/24 10:15
Date Received: 09/19/24 14:00
Sample Depth: 6"-12"

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/19/24 15:35	09/20/24 07:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/19/24 15:35	09/20/24 07:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/19/24 15:35	09/20/24 07:05	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/19/24 15:35	09/20/24 07:05	1

Client Sample Results

Client: Pinon Midstream
Project/Site: Dark Horse

Job ID: 880-48719-1

Client Sample ID: Dark Horse #5

Lab Sample ID: 880-48719-5
Matrix: Solid
Date Collected: 09/19/24 10:15
Date Received: 09/19/24 14:00
Sample Depth: 6"-12"

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/19/24 15:35	09/20/24 07:05	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/19/24 15:35	09/20/24 07:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*378*	*S1+*	*70 - 130*	*09/19/24 15:35*	*09/20/24 07:05*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*09/19/24 15:35*	*09/20/24 07:05*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/20/24 07:05	1

Method: TCEQ TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12 Range Hydrocarbons	<49.7	U	49.7		mg/Kg		09/19/24 16:21	09/20/24 00:31	1
>C12-C28 Range Hydrocarbons	<49.7	U	49.7		mg/Kg		09/19/24 16:21	09/20/24 00:31	1
>C28-C35 Range Hydrocarbons	<49.7	U	49.7		mg/Kg		09/19/24 16:21	09/20/24 00:31	1
Total Petroleum Hydrocarbons (C6-C35)	<49.7	U	49.7		mg/Kg			09/20/24 00:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*139*	*S1+*	*70 - 130*	*09/19/24 16:21*	*09/20/24 00:31*	*1*
o-Terphenyl (Surr)	*135*	*S1+*	*70 - 130*	*09/19/24 16:21*	*09/20/24 00:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**93.4**		4.98		mg/Kg			09/20/24 10:26	1

Client Sample ID: Dark Horse #6

Lab Sample ID: 880-48719-6
Matrix: Solid
Date Collected: 09/19/24 10:25
Date Received: 09/19/24 14:00
Sample Depth: 6"-12"

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		09/19/24 15:35	09/20/24 07:25	1
Toluene	<0.00202	U	0.00202		mg/Kg		09/19/24 15:35	09/20/24 07:25	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		09/19/24 15:35	09/20/24 07:25	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		09/19/24 15:35	09/20/24 07:25	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		09/19/24 15:35	09/20/24 07:25	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		09/19/24 15:35	09/20/24 07:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*09/19/24 15:35*	*09/20/24 07:25*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*09/19/24 15:35*	*09/20/24 07:25*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			09/20/24 07:25	1

Client Sample Results

Client: Pinon Midstream
Project/Site: Dark Horse

Job ID: 880-48719-1

Client Sample ID: Dark Horse #6

Lab Sample ID: 880-48719-6
Matrix: Solid
Date Collected: 09/19/24 10:25
Date Received: 09/19/24 14:00
Sample Depth: 6"-12"

Method: TCEQ TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12 Range Hydrocarbons	<50.0	U	50.0		mg/Kg		09/19/24 16:21	09/20/24 00:51	1
>C12-C28 Range Hydrocarbons	<50.0	U	50.0		mg/Kg		09/19/24 16:21	09/20/24 00:51	1
>C28-C35 Range Hydrocarbons	<50.0	U	50.0		mg/Kg		09/19/24 16:21	09/20/24 00:51	1
Total Petroleum Hydrocarbons (C6-C35)	<50.0	U	50.0		mg/Kg			09/20/24 00:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*102*		*70 - 130*	*09/19/24 16:21*	*09/20/24 00:51*	*1*
o-Terphenyl (Surr)	*101*		*70 - 130*	*09/19/24 16:21*	*09/20/24 00:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**33.0**		5.00		mg/Kg			09/20/24 10:33	1

Client Sample ID: Dark Horse #7

Lab Sample ID: 880-48719-7
Matrix: Solid
Date Collected: 09/19/24 10:30
Date Received: 09/19/24 14:00
Sample Depth: 6"-12"

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/19/24 15:35	09/20/24 07:46	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/19/24 15:35	09/20/24 07:46	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/19/24 15:35	09/20/24 07:46	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/19/24 15:35	09/20/24 07:46	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/19/24 15:35	09/20/24 07:46	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/19/24 15:35	09/20/24 07:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*148*	*S1+*	*70 - 130*	*09/19/24 15:35*	*09/20/24 07:46*	*1*
1,4-Difluorobenzene (Surr)	*120*		*70 - 130*	*09/19/24 15:35*	*09/20/24 07:46*	*1*

Method: TAL SOP 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			09/20/24 07:46	1

Method: TCEQ TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12 Range Hydrocarbons	<49.8	U	49.8		mg/Kg		09/19/24 16:21	09/20/24 01:11	1
>C12-C28 Range Hydrocarbons	<49.8	U	49.8		mg/Kg		09/19/24 16:21	09/20/24 01:11	1
>C28-C35 Range Hydrocarbons	<49.8	U	49.8		mg/Kg		09/19/24 16:21	09/20/24 01:11	1
Total Petroleum Hydrocarbons (C6-C35)	<49.8	U	49.8		mg/Kg			09/20/24 01:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*101*		*70 - 130*	*09/19/24 16:21*	*09/20/24 01:11*	*1*
o-Terphenyl (Surr)	*101*		*70 - 130*	*09/19/24 16:21*	*09/20/24 01:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**58.2**		5.00		mg/Kg			09/20/24 10:53	1

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Surrogate Summary

Client: Pinon Midstream
Project/Site: Dark Horse

Job ID: 880-48719-1

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-48719-1	Dark Horse #1	335 S1+	94
880-48719-2	Dark Horse #2	97	98
880-48719-3	Dark Horse #3	121	110
880-48719-4	Dark Horse #4	114	100
880-48719-5	Dark Horse #5	378 S1+	95
880-48719-6	Dark Horse #6	109	97
880-48719-7	Dark Horse #7	148 S1+	120
LCS 880-91221/1-A	Lab Control Sample	96	94
LCSD 880-91221/2-A	Lab Control Sample Dup	115	97
MB 880-91078/5-A	Method Blank	200 S1+	126
MB 880-91221/5-A	Method Blank	149 S1+	106

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO	OTPH
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-48719-1	Dark Horse #1	111	109
880-48719-2	Dark Horse #2	106	104
880-48719-3	Dark Horse #3	118	113
880-48719-4	Dark Horse #4	113	114
880-48719-5	Dark Horse #5	139 S1+	135 S1+
880-48719-6	Dark Horse #6	102	101
880-48719-7	Dark Horse #7	101	101
LCS 880-91250/2-A	Lab Control Sample	116	104
LCSD 880-91250/3-A	Lab Control Sample Dup	133 S1+	128
MB 880-91250/1-A	Method Blank	212 S1+	205 S1+

Surrogate Legend

1CO = 1-Chlorooctane (Surr)
OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Pinon Midstream
Project/Site: Dark Horse

Job ID: 880-48719-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-91078/5-A
Matrix: Solid
Analysis Batch: 91173

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 91078

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/18/24 10:04	09/19/24 13:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/18/24 10:04	09/19/24 13:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/18/24 10:04	09/19/24 13:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/18/24 10:04	09/19/24 13:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/18/24 10:04	09/19/24 13:01	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/18/24 10:04	09/19/24 13:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*200*	*S1+*	*70 - 130*	*09/18/24 10:04*	*09/19/24 13:01*	*1*
1,4-Difluorobenzene (Surr)	*126*		*70 - 130*	*09/18/24 10:04*	*09/19/24 13:01*	*1*

Lab Sample ID: MB 880-91221/5-A
Matrix: Solid
Analysis Batch: 91173

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 91221

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/19/24 12:52	09/20/24 00:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/19/24 12:52	09/20/24 00:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/19/24 12:52	09/20/24 00:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/19/24 12:52	09/20/24 00:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/19/24 12:52	09/20/24 00:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/19/24 12:52	09/20/24 00:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*149*	*S1+*	*70 - 130*	*09/19/24 12:52*	*09/20/24 00:40*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*09/19/24 12:52*	*09/20/24 00:40*	*1*

Lab Sample ID: LCS 880-91221/1-A
Matrix: Solid
Analysis Batch: 91173

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 91221

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08777		mg/Kg		88	70 - 130		
Toluene			0.100	0.08581		mg/Kg		86	70 - 130		
Ethylbenzene			0.100	0.08519		mg/Kg		85	70 - 130		
m-Xylene & p-Xylene			0.200	0.1654		mg/Kg		83	70 - 130		
o-Xylene			0.100	0.08769		mg/Kg		88	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: LCSD 880-91221/2-A
Matrix: Solid
Analysis Batch: 91173

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 91221

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09034		mg/Kg		90	70 - 130	3	35

QC Sample Results

Client: Pinon Midstream
Project/Site: Dark Horse

Job ID: 880-48719-1

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

Lab Sample ID: LCSD 880-91221/2-A
Matrix: Solid
Analysis Batch: 91173

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 91221

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.08584		mg/Kg		86	70 - 130	0	35
Ethylbenzene			0.100	0.09118		mg/Kg		91	70 - 130	7	35
m-Xylene & p-Xylene			0.200	0.1854		mg/Kg		93	70 - 130	11	35
o-Xylene			0.100	0.09262		mg/Kg		93	70 - 130	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Lab Sample ID: MB 880-91250/1-A
Matrix: Solid
Analysis Batch: 91162

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 91250

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12 Range Hydrocarbons	<50.0	U	50.0		mg/Kg		09/19/24 16:21	09/19/24 19:04	1
>C12-C28 Range Hydrocarbons	<50.0	U	50.0		mg/Kg		09/19/24 16:21	09/19/24 19:04	1
>C28-C35 Range Hydrocarbons	<50.0	U	50.0		mg/Kg		09/19/24 16:21	09/19/24 19:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*212*	*S1+*	*70 - 130*	*09/19/24 16:21*	*09/19/24 19:04*	*1*
o-Terphenyl (Surr)	*205*	*S1+*	*70 - 130*	*09/19/24 16:21*	*09/19/24 19:04*	*1*

Lab Sample ID: LCS 880-91250/2-A
Matrix: Solid
Analysis Batch: 91162

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 91250

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C6-C12 Range Hydrocarbons			1000	818.3		mg/Kg		82	75 - 125
>C12-C28 Range Hydrocarbons			1000	860.2		mg/Kg		86	75 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*116*		*70 - 130*
o-Terphenyl (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 880-91250/3-A
Matrix: Solid
Analysis Batch: 91162

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 91250

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C6-C12 Range Hydrocarbons			1000	984.8		mg/Kg		98	75 - 125	18	25
>C12-C28 Range Hydrocarbons			1000	1055		mg/Kg		105	75 - 125	20	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*133*	*S1+*	*70 - 130*
o-Terphenyl (Surr)	*128*		*70 - 130*

QC Sample Results

Client: Pinon Midstream
Project/Site: Dark Horse

Job ID: 880-48719-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-91243/1-A
Matrix: Solid
Analysis Batch: 91245

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			09/20/24 08:39	1

Lab Sample ID: LCS 880-91243/2-A
Matrix: Solid
Analysis Batch: 91245

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	248.3		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-91243/3-A
Matrix: Solid
Analysis Batch: 91245

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	250.1		mg/Kg		100	90 - 110	1	20

Lab Sample ID: 880-48719-6 MS
Matrix: Solid
Analysis Batch: 91245

Client Sample ID: Dark Horse #6
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	33.0		250	293.3		mg/Kg		104	90 - 110

Lab Sample ID: 880-48719-6 MSD
Matrix: Solid
Analysis Batch: 91245

Client Sample ID: Dark Horse #6
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	33.0		250	294.1		mg/Kg		104	90 - 110	0	20

QC Association Summary

Client: Pinon Midstream
Project/Site: Dark Horse

Job ID: 880-48719-1

GC VOA

Prep Batch: 91078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-91078/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 91173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48719-1	Dark Horse #1	Total/NA	Solid	8021B	91221
880-48719-2	Dark Horse #2	Total/NA	Solid	8021B	91221
880-48719-3	Dark Horse #3	Total/NA	Solid	8021B	91221
880-48719-4	Dark Horse #4	Total/NA	Solid	8021B	91221
880-48719-5	Dark Horse #5	Total/NA	Solid	8021B	91221
880-48719-6	Dark Horse #6	Total/NA	Solid	8021B	91221
880-48719-7	Dark Horse #7	Total/NA	Solid	8021B	91221
MB 880-91078/5-A	Method Blank	Total/NA	Solid	8021B	91078
MB 880-91221/5-A	Method Blank	Total/NA	Solid	8021B	91221
LCS 880-91221/1-A	Lab Control Sample	Total/NA	Solid	8021B	91221
LCSD 880-91221/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	91221

Prep Batch: 91221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48719-1	Dark Horse #1	Total/NA	Solid	5035	
880-48719-2	Dark Horse #2	Total/NA	Solid	5035	
880-48719-3	Dark Horse #3	Total/NA	Solid	5035	
880-48719-4	Dark Horse #4	Total/NA	Solid	5035	
880-48719-5	Dark Horse #5	Total/NA	Solid	5035	
880-48719-6	Dark Horse #6	Total/NA	Solid	5035	
880-48719-7	Dark Horse #7	Total/NA	Solid	5035	
MB 880-91221/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-91221/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-91221/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 91323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48719-1	Dark Horse #1	Total/NA	Solid	Total BTEX	
880-48719-2	Dark Horse #2	Total/NA	Solid	Total BTEX	
880-48719-3	Dark Horse #3	Total/NA	Solid	Total BTEX	
880-48719-4	Dark Horse #4	Total/NA	Solid	Total BTEX	
880-48719-5	Dark Horse #5	Total/NA	Solid	Total BTEX	
880-48719-6	Dark Horse #6	Total/NA	Solid	Total BTEX	
880-48719-7	Dark Horse #7	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 91162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48719-1	Dark Horse #1	Total/NA	Solid	TX 1005	91250
880-48719-2	Dark Horse #2	Total/NA	Solid	TX 1005	91250
880-48719-3	Dark Horse #3	Total/NA	Solid	TX 1005	91250
880-48719-4	Dark Horse #4	Total/NA	Solid	TX 1005	91250
880-48719-5	Dark Horse #5	Total/NA	Solid	TX 1005	91250
880-48719-6	Dark Horse #6	Total/NA	Solid	TX 1005	91250
880-48719-7	Dark Horse #7	Total/NA	Solid	TX 1005	91250
MB 880-91250/1-A	Method Blank	Total/NA	Solid	TX 1005	91250

QC Association Summary

Client: Pinon Midstream
Project/Site: Dark Horse

Job ID: 880-48719-1

GC Semi VOA (Continued)

Analysis Batch: 91162 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-91250/2-A	Lab Control Sample	Total/NA	Solid	TX 1005	91250
LCSD 880-91250/3-A	Lab Control Sample Dup	Total/NA	Solid	TX 1005	91250

Prep Batch: 91250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48719-1	Dark Horse #1	Total/NA	Solid	TX_1005_S_Prep	
880-48719-2	Dark Horse #2	Total/NA	Solid	TX_1005_S_Prep	
880-48719-3	Dark Horse #3	Total/NA	Solid	TX_1005_S_Prep	
880-48719-4	Dark Horse #4	Total/NA	Solid	TX_1005_S_Prep	
880-48719-5	Dark Horse #5	Total/NA	Solid	TX_1005_S_Prep	
880-48719-6	Dark Horse #6	Total/NA	Solid	TX_1005_S_Prep	
880-48719-7	Dark Horse #7	Total/NA	Solid	TX_1005_S_Prep	
MB 880-91250/1-A	Method Blank	Total/NA	Solid	TX_1005_S_Prep	
LCS 880-91250/2-A	Lab Control Sample	Total/NA	Solid	TX_1005_S_Prep	
LCSD 880-91250/3-A	Lab Control Sample Dup	Total/NA	Solid	TX_1005_S_Prep	

Analysis Batch: 91348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48719-1	Dark Horse #1	Total/NA	Solid	TX 1005	
880-48719-2	Dark Horse #2	Total/NA	Solid	TX 1005	
880-48719-3	Dark Horse #3	Total/NA	Solid	TX 1005	
880-48719-4	Dark Horse #4	Total/NA	Solid	TX 1005	
880-48719-5	Dark Horse #5	Total/NA	Solid	TX 1005	
880-48719-6	Dark Horse #6	Total/NA	Solid	TX 1005	
880-48719-7	Dark Horse #7	Total/NA	Solid	TX 1005	

HPLC/IC

Leach Batch: 91243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48719-1	Dark Horse #1	Soluble	Solid	DI Leach	
880-48719-2	Dark Horse #2	Soluble	Solid	DI Leach	
880-48719-3	Dark Horse #3	Soluble	Solid	DI Leach	
880-48719-4	Dark Horse #4	Soluble	Solid	DI Leach	
880-48719-5	Dark Horse #5	Soluble	Solid	DI Leach	
880-48719-6	Dark Horse #6	Soluble	Solid	DI Leach	
880-48719-7	Dark Horse #7	Soluble	Solid	DI Leach	
MB 880-91243/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-91243/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-91243/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-48719-6 MS	Dark Horse #6	Soluble	Solid	DI Leach	
880-48719-6 MSD	Dark Horse #6	Soluble	Solid	DI Leach	

QC Association Summary

Client: Pinon Midstream
Project/Site: Dark Horse

Job ID: 880-48719-1

HPLC/IC

Analysis Batch: 91245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48719-1	Dark Horse #1	Soluble	Solid	300.0	91243
880-48719-2	Dark Horse #2	Soluble	Solid	300.0	91243
880-48719-3	Dark Horse #3	Soluble	Solid	300.0	91243
880-48719-4	Dark Horse #4	Soluble	Solid	300.0	91243
880-48719-5	Dark Horse #5	Soluble	Solid	300.0	91243
880-48719-6	Dark Horse #6	Soluble	Solid	300.0	91243
880-48719-7	Dark Horse #7	Soluble	Solid	300.0	91243
MB 880-91243/1-A	Method Blank	Soluble	Solid	300.0	91243
LCS 880-91243/2-A	Lab Control Sample	Soluble	Solid	300.0	91243
LCSD 880-91243/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	91243
880-48719-6 MS	Dark Horse #6	Soluble	Solid	300.0	91243
880-48719-6 MSD	Dark Horse #6	Soluble	Solid	300.0	91243

Lab Chronicle

Client: Pinon Midstream
Project/Site: Dark Horse

Job ID: 880-48719-1

Client Sample ID: Dark Horse #1

Lab Sample ID: 880-48719-1
Matrix: Solid
Date Collected: 09/19/24 09:50
Date Received: 09/19/24 14:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	91221	09/19/24 15:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91173	09/20/24 04:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91323	09/20/24 04:13	SM	EET MID
Total/NA	Prep	TX_1005_S_Prep			10.01 g	10 mL	91250	09/19/24 16:21	AM	EET MID
Total/NA	Analysis	TX 1005		1	1 uL	1 uL	91162	09/19/24 22:50	SM	EET MID
Total/NA	Analysis	TX 1005		1			91348	09/19/24 22:50	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	91243	09/19/24 15:09	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91245	09/20/24 09:59	CH	EET MID

Client Sample ID: Dark Horse #2

Lab Sample ID: 880-48719-2
Matrix: Solid
Date Collected: 09/19/24 10:00
Date Received: 09/19/24 14:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	91221	09/19/24 15:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91173	09/20/24 06:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91323	09/20/24 06:03	SM	EET MID
Total/NA	Prep	TX_1005_S_Prep			10.05 g	10 mL	91250	09/19/24 16:21	AM	EET MID
Total/NA	Analysis	TX 1005		1	1 uL	1 uL	91162	09/19/24 23:10	SM	EET MID
Total/NA	Analysis	TX 1005		1			91348	09/19/24 23:10	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	91243	09/19/24 15:09	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91245	09/20/24 10:06	CH	EET MID

Client Sample ID: Dark Horse #3

Lab Sample ID: 880-48719-3
Matrix: Solid
Date Collected: 09/19/24 10:05
Date Received: 09/19/24 14:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	91221	09/19/24 15:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91173	09/20/24 06:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91323	09/20/24 06:24	SM	EET MID
Total/NA	Prep	TX_1005_S_Prep			10.04 g	10 mL	91250	09/19/24 16:21	AM	EET MID
Total/NA	Analysis	TX 1005		1	1 uL	1 uL	91162	09/19/24 23:30	SM	EET MID
Total/NA	Analysis	TX 1005		1			91348	09/19/24 23:30	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	91243	09/19/24 15:09	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91245	09/20/24 10:13	CH	EET MID

Client Sample ID: Dark Horse #4

Lab Sample ID: 880-48719-4
Matrix: Solid
Date Collected: 09/19/24 10:10
Date Received: 09/19/24 14:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	91221	09/19/24 15:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91173	09/20/24 06:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91323	09/20/24 06:44	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Pinon Midstream
Project/Site: Dark Horse

Job ID: 880-48719-1

Client Sample ID: Dark Horse #4

Lab Sample ID: 880-48719-4
Matrix: Solid
Date Collected: 09/19/24 10:10
Date Received: 09/19/24 14:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	TX_1005_S_Prep			10.07 g	10 mL	91250	09/19/24 16:21	AM	EET MID
Total/NA	Analysis	TX 1005		1	1 uL	1 uL	91162	09/19/24 23:50	SM	EET MID
Total/NA	Analysis	TX 1005		1			91348	09/19/24 23:50	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	91243	09/19/24 15:09	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91245	09/20/24 10:19	CH	EET MID

Client Sample ID: Dark Horse #5

Lab Sample ID: 880-48719-5
Matrix: Solid
Date Collected: 09/19/24 10:15
Date Received: 09/19/24 14:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	91221	09/19/24 15:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91173	09/20/24 07:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91323	09/20/24 07:05	SM	EET MID
Total/NA	Prep	TX_1005_S_Prep			10.06 g	10 mL	91250	09/19/24 16:21	AM	EET MID
Total/NA	Analysis	TX 1005		1	1 uL	1 uL	91162	09/20/24 00:31	SM	EET MID
Total/NA	Analysis	TX 1005		1			91348	09/20/24 00:31	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	91243	09/19/24 15:09	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91245	09/20/24 10:26	CH	EET MID

Client Sample ID: Dark Horse #6

Lab Sample ID: 880-48719-6
Matrix: Solid
Date Collected: 09/19/24 10:25
Date Received: 09/19/24 14:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	91221	09/19/24 15:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91173	09/20/24 07:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91323	09/20/24 07:25	SM	EET MID
Total/NA	Prep	TX_1005_S_Prep			10.01 g	10 mL	91250	09/19/24 16:21	AM	EET MID
Total/NA	Analysis	TX 1005		1	1 uL	1 uL	91162	09/20/24 00:51	SM	EET MID
Total/NA	Analysis	TX 1005		1			91348	09/20/24 00:51	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	91243	09/19/24 15:09	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91245	09/20/24 10:33	CH	EET MID

Client Sample ID: Dark Horse #7

Lab Sample ID: 880-48719-7
Matrix: Solid
Date Collected: 09/19/24 10:30
Date Received: 09/19/24 14:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	91221	09/19/24 15:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91173	09/20/24 07:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91323	09/20/24 07:46	SM	EET MID
Total/NA	Prep	TX_1005_S_Prep			10.05 g	10 mL	91250	09/19/24 16:21	AM	EET MID
Total/NA	Analysis	TX 1005		1	1 uL	1 uL	91162	09/20/24 01:11	SM	EET MID
Total/NA	Analysis	TX 1005		1			91348	09/20/24 01:11	SM	EET MID

Lab Chronicle

Client: Pinon Midstream
Project/Site: Dark Horse

Job ID: 880-48719-1

Client Sample ID: Dark Horse #7
Date Collected: 09/19/24 10:30
Date Received: 09/19/24 14:00

Lab Sample ID: 880-48719-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.00 g	50 mL	91243	09/19/24 15:09	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91245	09/20/24 10:53	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Pinon Midstream
Project/Site: Dark Horse

Job ID: 880-48719-1

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Total BTEX		Solid	Total BTEX

Method Summary

Client: Pinon Midstream
Project/Site: Dark Horse

Job ID: 880-48719-1

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
TX 1005	Texas - Total Petroleum Hydrocarbon (GC)	TCEQ	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID
TX_1005_S_Prep	Extraction - Texas Total petroleum Hyrdocarbons	TCEQ	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

TCEQ = Texas Commission of Environmental Quality

Laboratory References:

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

Sample Summary

Client: Pinon Midstream
Project/Site: Dark Horse

Job ID: 880-48719-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-48719-1	Dark Horse #1	Solid	09/19/24 09:50	09/19/24 14:00	6"-12"
880-48719-2	Dark Horse #2	Solid	09/19/24 10:00	09/19/24 14:00	6"-12"
880-48719-3	Dark Horse #3	Solid	09/19/24 10:05	09/19/24 14:00	6"-12"
880-48719-4	Dark Horse #4	Solid	09/19/24 10:10	09/19/24 14:00	6"-12"
880-48719-5	Dark Horse #5	Solid	09/19/24 10:15	09/19/24 14:00	6"-12"
880-48719-6	Dark Horse #6	Solid	09/19/24 10:25	09/19/24 14:00	6"-12"
880-48719-7	Dark Horse #7	Solid	09/19/24 10:30	09/19/24 14:00	6"-12"

eurofins | Environment Testing Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work C

880-48719 Chain of Custody

www.xe...com Page _____ of _____

Project Manager:	Kaitlyn Lopez	Bill to: (if different)	
Company Name:	Pinon Midstream	Company Name:	
Address:	757 N. Eldridge Pkwy, 1150	Address:	
City, State ZIP:	Houston, Tx. 77079	City, State ZIP:	
Phone:	713-834-4247 Email:	KLopez@PinonMidstream.com	

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:		Turn Around	
Project Number:		☐ Routine ☑ Rush	
Project Location:		Due Date:	24 hrs
Sampler's Name:		TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	IR5
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-.1
Sample Custody Seals:	Yes No N/A	Temperature Reading:	4.6
Total Containers:		Corrected Temperature:	4.5

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	NO	TPH 1005	Chlorides	BTEX	Sample Comments
Dark Horse #1	Soil	9/19/24	9:50AM	6"-12"		2		X	X	X		Sample depth dependent on availability
#2			10:00AM					Y	Y	Y		
#3			10:05AM					Y	Y	Y		
#4			10:10AM					X	X	X		
#5			10:15AM					X	Y	Y		
#6			10:25AM					X	X	Y		
#7			10:30AM					Y	Y	X		

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins 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 Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			9/19/24 1400	2		9/19/24 1400
3				4		
5				6		

Revised Date: 08/25/2020 Rev. 2020.2

48719

eurofins | Environment Testing Xenco

Remit Payment to:
Eurofins Xenco, LLC
Citibank
One Penns Way
New Castle, DE 19720
Account Number: 31485573
Routing/ABA Number: 031100209
Swift Number: CITIUS33

NEW CLIENT ONBOARDING FORM

Instructions: We recommend that you complete all fields directly in the form and return it via e-mail to Xencoar@eurofinset.com. We also need a W-9 form submitted along with this credit application. If this is not possible, please print, complete manually, and scan it. You may also fax to 281.240.4280 Attn: Accounts Receivable. If you have any questions, please call Accounts Receivable at 281.240.4200.

APPLICANT INFORMATION:

Company Name: Pinon Midstream LLC Main Contact: Kaitlyn Lopez

Phone: 713-834-4247 Fax: Purchase order Required Y ○ N ○

Full Billing Address: 16014 Port Barrow Drive, Cypress, TX 77429

Controller's Name: Connie FEIN:

Name of Accounts Payable Contact: Kaitlyn Lopez

Accounts Payable E-mail: KLopez@pinonmidstream.com

Accounts Payable Phone: 713-834-4247

Company Type: [redacted] klopez@pinonmidstream.com

CREDIT APPLICATION

CREDIT LINE: (Please only fill out credit application portion if requesting terms)

Requesting $ Credit Line Terms: [redacted]

PAYMENT FORM: Company Check ○ ACH/Wire ○ Credit Card ◉

SPECIAL INVOICE INSTRUCTIONS: (Please write down instructions on how to send invoices)

Optional

Email is perfect

FINAL APPROVAL: (Xenco AR team only, terms over 60 days and credit lines over $5,000 will need to be approved by management)

Approved $ Credit Line Terms: [redacted]

Approver Signature: _____ Name:

By signing this agreement, I/We authorize the Eurofins Xenco to run a full Credit Check. If your credit history is deemed inadequate, our AR Department will contact you with instructions for payment in advance.

Signature _____ Date:

Name: Title:

Login Sample Receipt Checklist

Client: Pinon Midstream Job Number: 880-48719-1

Login Number: 48719 **List Source: Eurofins Midland**
List Number: 1
Creator: Vasquez, Julisa

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	

Appendix D Reports and Variances

December 8, 2023

State of New Mexico Oil Conservation Division
District II - Artesia
811 S. First St.,
Artesia, NM 88210

RE: Pinon Midstream, LLC Spill Closure Request for Dark Horse Treating Facility, Lea County, New Mexico

To Whom it May Concern,

Resolute Compliance, LLC (Resolute) is writing you on behalf of Pinon Midstream, LLC (Pinon) regarding a release that occurred at their Dark Horse Treating Facility location in Lea County, New Mexico.

Pinon is requesting concurrence on the closure of the spill after final excavation activities. Please see details of the proposed remediation plan herein.

The Dark Horse Treating Facility underwent inlet mechanical failure on 11/26/2023. This failure resulted in Pinon immediately activating Pinon's emergency action and H_2S contingency plans. Pinon isolated the gathering system and pipelines around the source of release.

At the end of the event, 11/29/2023, it was calculated that 5,023.00 MSCF of gas was thermally controlled throughout the duration of the event. Additionally, 3.75 BBL of amine liquid (with no associated reportable quantity) was released.

Pinon depressurized inlet pipelines to the Dark Horse Treating Facility and isolated the plant.

Proposed Remediation Plan

Remediation efforts are currently in progress as the extent of the equipment failure is being determined. Sampling efforts will begin the week of 12/11/2023 to assist in delineating the impacted area. Areas where detection limits are above clean up criteria will promote excavation. Subsequent confirmation sampling will be conducted as necessary pending the results of the initial sampling.

RESOLUTE COMPLIANCE, LLC
115 FM 2453, Suite A
Royse City, TX 75189
(972) 842-4301
www.ResoluteCompliance.com

Should you require any further information regarding the initial incident, or the follow-up actions taken by Pinon, please don't hesitate to reach out directly to me by phone at 972.842.4304 or via email at jj@resolutecompliance.com

Kind regards,

Jeff Jackson

Vice President of EHSR

Encl: Initial C-141 Report

RESOLUTE COMPLIANCE, LLC
115 FM 2453, Suite A
Royse City, TX 75189
(972) 842-4301
www.ResoluteCompliance.com

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: Pinon Midstream, LLC	OGRID: 330718
Contact Name: Chris Kassen	Contact Telephone: 469-474-8092
Contact email: ckassen@pinonmidstream.com	Incident # *(assigned by OCD):*
Contact mailing address: 20445 SH 249, Suite 300, Houston, TX	77070

Location of Release Source

Latitude 32.118743 Longitude -103.289391
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Dark Horse Treating Facility	Site Type: Treating Facility
Date Release Discovered: 11/26/2023	API# *(if applicable): 39823*

Unit Letter	Section	Township	Range	County
L	20	25S	36E	Lea

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (*Name:* _____)

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☒ Natural Gas	Volume Released (Mcf) 5,023.00	Volume Recovered (Mcf) 5,023.00
☒ Other (describe)	Volume/Weight Released (provide units) Amine 3.57 bbl	Volume/Weight Recovered (provide units) Amine 3.57 bbl
Cause of Release Mechanical failure of on-site equipment.		

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Immediate notice was given by Chris Kassen (Pinon) to OCD.Enviro@emnrd.nm.gov via email on 11/26/2023 at 12:00 pm.	

Initial Response

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

☒ The source of the release has been stopped.

☒ The impacted area has been secured to protect human health and the environment.

☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why: N/A

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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

Printed Name: Chris Kassen Title: Director of Operations

Signature: Signed via OCD Submission Date: 12/3/2023

email: ckassen@pinonmidstream.com Telephone: 469-474-8092

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

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?	< 50 (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 vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

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

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

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

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

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

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: ***Each of the following items must be confirmed as part of any request for deferral of remediation.***

☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☐ Extents of contamination must be fully delineated.

☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

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 19.15.29.11 NMAC

☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☐ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

OCD Permitting

Submit Non-Fee [NOTIFY] Notification Of Release (NOR)

Submission Contact, Application, Fee and Payment Details

First Name: Chris

Last Name: Kassen

Email: ckassen@pinonmidstream.com

Edit Submission Contact Details

Application Status: Draft Application

- *Please call (505) 476-3441 or email ocd.fees@state.nm.us for support.*

Fee Amount: **$0.00**

Application Details

District	County	Location		Type	ID	
Hobbs	Lea	L-20-25S-36E Lot: 1626 FNL 1993 FEL 32.118743,-103.289391 NAD83	Delete	Facility ID	[fAPP2206937962]	Delete

Add Location Add Well API

Questions

Location of Release Source

Please answer all the questions in this group.

- Site Name: Dark Horse Treating Facility — Clear
- Date Release Discovered: 11/26/2023 — Clear
- Surface Owner: Federal — Clear

Incident Details

Please answer all the questions in this group.

- Incident Type: Emergency — Clear
- Did this release result in a fire or is the result of a fire: Yes — Clear
- Did this release result in any injuries: No — Clear
- Has this release reached or does it have a reasonable probability of reaching a watercourse: No — Clear
- Has this release endangered or does it have a reasonable probability of endangering public health: No — Clear
- Has this release substantially damaged or will it substantially damage property or the environment: Yes — Clear
- Is this release of a volume that is or may with reasonable probability be detrimental to fresh water: No — Clear

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

- Crude Oil Released (bbls) Details
- Produced Water Released (bbls) Details
- Is the concentration of chloride in the produced water >10,000 mg/l

• Are there **additional details** for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Non-reportable quantity of amine released. No hydrocarbons released.	Clear

Nature and Volume of Release (continued)

• Is this a gas only submission (i.e. only significant Mcf values reported)	**Yes, according to supplied volumes this appears to be a "gas only" report.**
• Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	**Yes**
• Reasons why this would be considered a submission for a notification of a major release	**From paragraph A. "Major release" determine using:** **(2) an unauthorized release of a volume that:** **(a) results in a fire or is the result of a fire;** **(d) substantially damages property or the environment;** **(3) an unauthorized release of gases exceeding 500 MCF.**

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Initial Response

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

• The source of the release has been stopped	True	Clear
• The impacted area has been secured to protect human health and the environment	True	Clear
• Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True	Clear
• All free liquids and recoverable materials have been removed and managed appropriately	True	Clear
• If all the actions described above have not been undertaken, explain why		

Per Paragraph 4 of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

Acknowledgments

- [ ] I acknowledge that I am authorized to submit notification of a release on behalf of my operator.
- [ ] I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to NMAC 19.15.29.
- [ ] I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and corrective action", pursuant to NMAC 19.15.29.
- [ ] I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment.
- [ ] I acknowledge the fact that the acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment.
- [ ] I acknowledge the fact that, in addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Submit to OCD Delete

From: Velez, Nelson, EMNRD
To: Kaitlyn Lopez
Subject: Re: [EXTERNAL] 19.15.29.12.D.(1)(a) - Variance Request
Date: Monday, September 16, 2024 4:54:11 PM
Attachments: image001.png
Outlook-kfr0ofho.png
Implementation-of-Digital-C-141-and-Incident-Statuses.pdf

CAUTION: External Sender Email: Use caution with links / attachments.

Good afternoon Kaitlyn,

Thank you for the correspondence. Based on the information given, your variance request to forgo 19.15.29.12D (1a) NMAC is approved. Please submit a sampling notification to the portal and date 12/12/2023 (third entry). Within one of the last two (2) entries, state that the sampling notification variance was approved via email and will be included within the final remediation closure report.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

I've also attached the guidance document that I had referred to in our phone conversation.

The OCD requires a copy of all correspondence relative to remedial activities be included in all proposals and/or final closure reports. Correspondence required to be included in reports may include, but not limited to, notifications for liner inspections, sample events, spill/release/fire, and request for time extensions or variances.

Regards,

Nelson Velez • Environmental Specialist - Adv
Environmental Bureau | EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87410
(505) 469-6146 | nelson.velez@emnrd.nm.gov
http://www.emnrd.nm.gov/ocd

From: Kaitlyn Lopez <klopez@pinonmidstream.com>
Sent: Monday, September 16, 2024 2:20 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Subject: [EXTERNAL] 19.15.29.12.D.(1)(a) - Variance Request

Good afternoon Nelson,

We would like to request a variance for 19.15.29.12.D.(1)(a), verbal notification two business days prior to conducting final sampling, for samples taken on December 11, 2023 at our Dark Horse Treating Facility.

The analytical report prepared by Eurofins is attached for your reference. The samples were taken immediately upon cleanup and were identified to be well below closure standards or non-detect for sampled criteria.

Upon your review of this request, please do not hesitate to contact me for any additional information.

Respectfully,

Kaitlyn Lopez | Regional Compliance Director
Piñon Midstream
C. 713.834.4247
KLopez@PinonMidstream.com
Please Note our New Address
757 N. Eldridge Pkwy, Suite 1150
Houston, Texas 77079

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS

Action 403757

QUESTIONS

Operator: Pinon Midstream LLC PO Box 4324 Houston, TX 77210	OGRID: 330718
	Action Number: 403757
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2334345415**
Incident Name	**NAPP2334345415 DARK HORSE TREATING FACILITY @ 0**
Incident Type	**Emergency**
Incident Status	**Remediation Closure Report Received**
Incident Facility	**[fAPP2206937962] Pinon Midstream**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	DARK HORSE TREATING FACILITY
Date Release Discovered	11/26/2023
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	*Not answered.*
Produced Water Released (bbls) Details	*Not answered.*
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	Cause: Equipment Failure | Gas Plant | Natural Gas Flared | Released: 12,286 Mcf | Recovered: 0 Mcf | Lost: 12,286 Mcf.
Other Released Details	Cause: | | Other (Specify) | Released: 0 (Unknown Released Amount) | Recovered: 0 | Lost: 0 .
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Non-reportable quantity of amine released. No hydrocarbons released.

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QUESTIONS (continued)

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QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	**Yes, according to supplied volumes this appears to be a "gas only" report.**
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	**Yes**
Reasons why this would be considered a submission for a notification of a major release	**From paragraph A. "Major release" determine using:** **(2) an unauthorized release of a volume that:** **(a) results in a fire or is the result of a fire;** **(d) substantially damages property or the environment;** **(3) an unauthorized release of gases exceeding 500 MCF.**
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

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

I hereby agree and sign off to the above statement	Name: Kaitlyn Lopez Title: Regional Compliance Director Email: klopez@pinonmidstream.com Date: 11/15/2024

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QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 26 and 50 (ft.)
What method was used to determine the depth to ground water	Estimate or Other
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Greater than 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	93.4
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	387
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	1.1
Benzene (EPA SW-846 Method 8021B or 8260B)	0.1
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
On what estimated date will the remediation commence	11/28/2023
On what date will (or did) the final sampling or liner inspection occur	09/19/2024
On what date will (or was) the remediation complete(d)	01/12/2024
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	1300
What is the estimated volume (in cubic yards) that will be remediated	12
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

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QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for **off-site** disposal	R360 ARTESIA LLC LANDFARM [fEEM0112340644]
OR which OCD approved well (API) will be used for **off-site** disposal	*Not answered.*
OR is the **off-site** disposal site, to be used, out-of-state	*Not answered.*
OR is the **off-site** disposal site, to be used, an NMED facility	*Not answered.*
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	*Not answered.*
(In Situ) Soil Vapor Extraction	*Not answered.*
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	*Not answered.*
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	*Not answered.*
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	*Not answered.*
Ground Water Abatement pursuant to 19.15.30 NMAC	*Not answered.*
OTHER (Non-listed remedial process)	*Not answered.*
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Kaitlyn Lopez Title: Regional Compliance Director Email: klopez@pinonmidstream.com Date: 11/15/2024
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**384079**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**09/19/2024**
What was the (estimated) number of samples that were to be gathered	**7**
What was the sampling surface area in square feet	**1300**

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	**Yes**
Was this release entirely contained within a lined containment area	**No**
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	1300
What was the total volume (cubic yards) remediated	12
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	None

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Kaitlyn Lopez Title: Regional Compliance Director Email: klopez@pinonmidstream.com Date: 11/15/2024

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QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

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CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	This Remediation Closure Report is approved. Areas reasonably needed for production or subsequent drilling operations will need to be reclaimed and revegetated as soon as they are no longer reasonably needed. A report for reclamation and revegetation will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete".	1/22/2025