CARMONA RESOURCES

SITE INFORMATION

Closure Report
Burton 35 001
Incident ID: NRM2032541640
Lea County, New Mexico
Unit A Sec 35 T25S R33E
32.092418°, -103.536682°

Crude Oil and Produced Water Release
Point of Release: Hole in circulating line due to external corrosion
Release Date: 10/21/2020
Volume Released: 15 barrels of Produced Water, 3 barrels of Crude Oil
Volume Recovered: 12 barrels of Produced Water, 2 barrels of Crude Oil

CARMONA RESOURCES

Prepared for:
Concho Operating, LLC
600 West Illinois Avenue,
Midland, Texas 79701

Prepared by:
Carmona Resources, LLC
310 West Wall Street
Suite 415
Midland, Texas 79701

310 West Wall Street, Suite 415
Midland TX, 79701
432.813.1992

CARMONA RESOURCES

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APPENDICES

310 West Wall Street, Suite 415
Midland TX, 79701
432.813.1992

CARMONA RESOURCES

September 14, 2022

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

Re: Closure Report
Burton 35 001
Concho Operating, LLC
Incident #NRM2032541640
Site Location: Unit A, S35, T25S, R33E
(Lat 32.092418º, Long -103.536682°)
Lea County, New Mexico

To whom it may concern:

On behalf of Concho Operating, LLC (COG), Carmona Resources, LLC has prepared this letter to document site activities for the Burton 35 001. The site is located at 32.092418º, -103.536682º within Unit A, S35, T25S, R33E, in Lea County, New Mexico (Figures 1 and 2).

1.0 Site information and Background

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), On October 21, 2020, a hole in the circulating line failed to result in the release of approximately three (3) barrels of oil and fifteen (15) barrels of produced water, with two (2) barrels of oil and twelve (12) barrels of produced water being recovered. The impacted area is located on the pad and in the pasture and is shown in Figure 3. The initial C-141 form is attached in Appendix B.

On June 8, 2022 the NMOCD denied closure due to insufficient groundwater.

2.0 Site Characterization and Groundwater

The site is located within a low karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, no known water source is within a 0.50-mile radius of the location. The nearest identified well is located approximately 0.75 miles Northwest of the site in S26, T25S, R33E and was drilled in 1925. The well has a reported depth to groundwater of 110 feet below ground surface (ft bgs). A copy of the associated Summary Report is attached in Appendix C.

On July 19, 2022, Scarborough Drilling, Inc was onsite to drill a groundwater determination bore to 55’ below ground surface and within a 0.50-mile radius of the location. The bore was left open for 72 hours and tagged with a water level meter. No water was detected at 55’ below the surface. The coordinates for the groundwater determination bore are 32.094011°, -103.537384°. See Appendix C for the log.

3.0 NMAC Regulatory Criteria

Per the NMOCD regulatory criteria established in 19.15.29.12 NMAC, the following criteria were utilized in assessing the site.

- Benzene: 10 milligrams per kilogram (mg/kg).
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg.
- TPH: 2,500 mg/kg (GRO + DRO + MRO).
- TPH: 1,000 mg/kg (GRO + DRO).
- Chloride: 10,000 mg/kg.

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4.0 Site Assessment Activities

On November 4, 2020, a hand auger was utilized to collect soil samples to delineate the impacted area. A total of four (4) auger holes were installed to assess the impact. On March 18, 2021, the areas of AH-1 and AH-2 were resampled with a back-hoe to achieve vertical delineation. The sampling results are summarized in Table 1. The analytical reports are shown in Appendix D.

5.0 Remediation Activities

Based on the assessment results, the area of T-1 and T-2 were excavated to a depth of six (6) below ground surface. The impacted material in the areas of AH-3 and AH-4 were excavated to a depth of two (2) foot below the ground surface. Approximately 120 cubic yards were transported to proper disposal. Once the excavation is complete, confirmation soil samples were collected from the excavated areas. To collect representative samples, composite samples (5-point composite) were collected every 200 square feet from the bottom and sidewalls of the excavated areas. The soil samples were analyzed for the constituents of concern. Discrete soil samples were collected from the excavation if any "hot spots" were encountered during the excavation. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain of custody protocol to Eurofins in Midland, Texas. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 300.0. The laboratory reports containing analytical methods, results, and chain-of-custody documents are attached in Appendix D. See Figure 3 for the sample locations.

After further evaluation, no impact was on the pad, and all samples were below the regulatory limits and are summarized in Table 1.

6.0 Conclusions

Based on the assessment results and the analytical data, no further actions are required at the site. The final C-141 is attached, and COG formally requests closure of the spill. If you have any questions regarding this report or need additional information, please get in touch with us at 432-813-1992.

Sincerely,
Carmona Resources, LLC

Conner Moehring
Sr. Project Manager

Ashton Thielke
Sr. Project Manager

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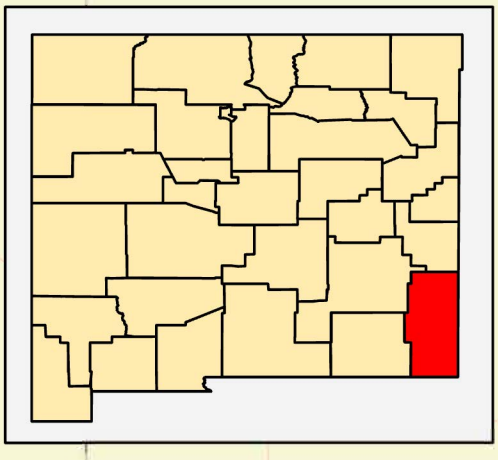
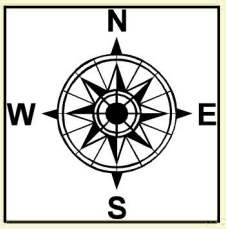
Midland TX, 79701
432.813.1992

FIGURES

CARMONA RESOURCES





W NM Highway 128

Ochoa

Orla Rd

652

Loving

0 2 4 8 Miles

Legend

★ Site Location

OVERVIEW MAP
COG OPERATING
BURTON 35 001
LEA COUNTY, NEW MEXICO
32.092418, -103.536682

SCALE: As Shown

Date: 8/2/2022

CARMONA RESOURCES

Carmona Resources
310 West Wall Street, Suite 415
Midland, Texas 79701

NOTES:

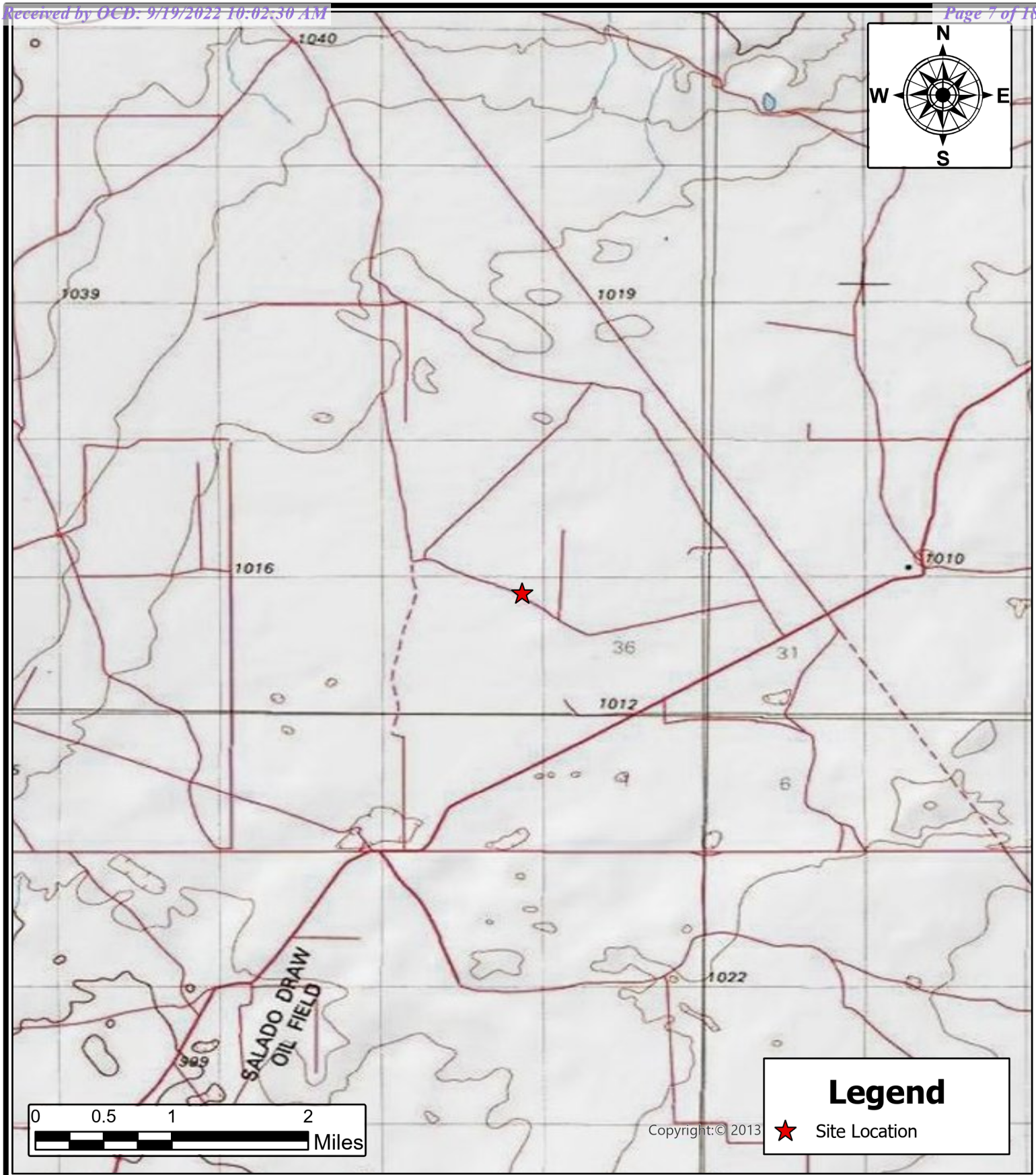
1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983 UTM Zone 13N

DRAWING NUMBER:

FIGURE 1

SHEET NUMBER:

1 of 1



TOPOGRAPHIC MAP
COG OPERATING
BURTON 35 001
LEA COUNTY, NEW MEXICO
32.092418, -103.536682

SCALE: As Shown | Date: 8/2/2022

CARMONA RESOURCES

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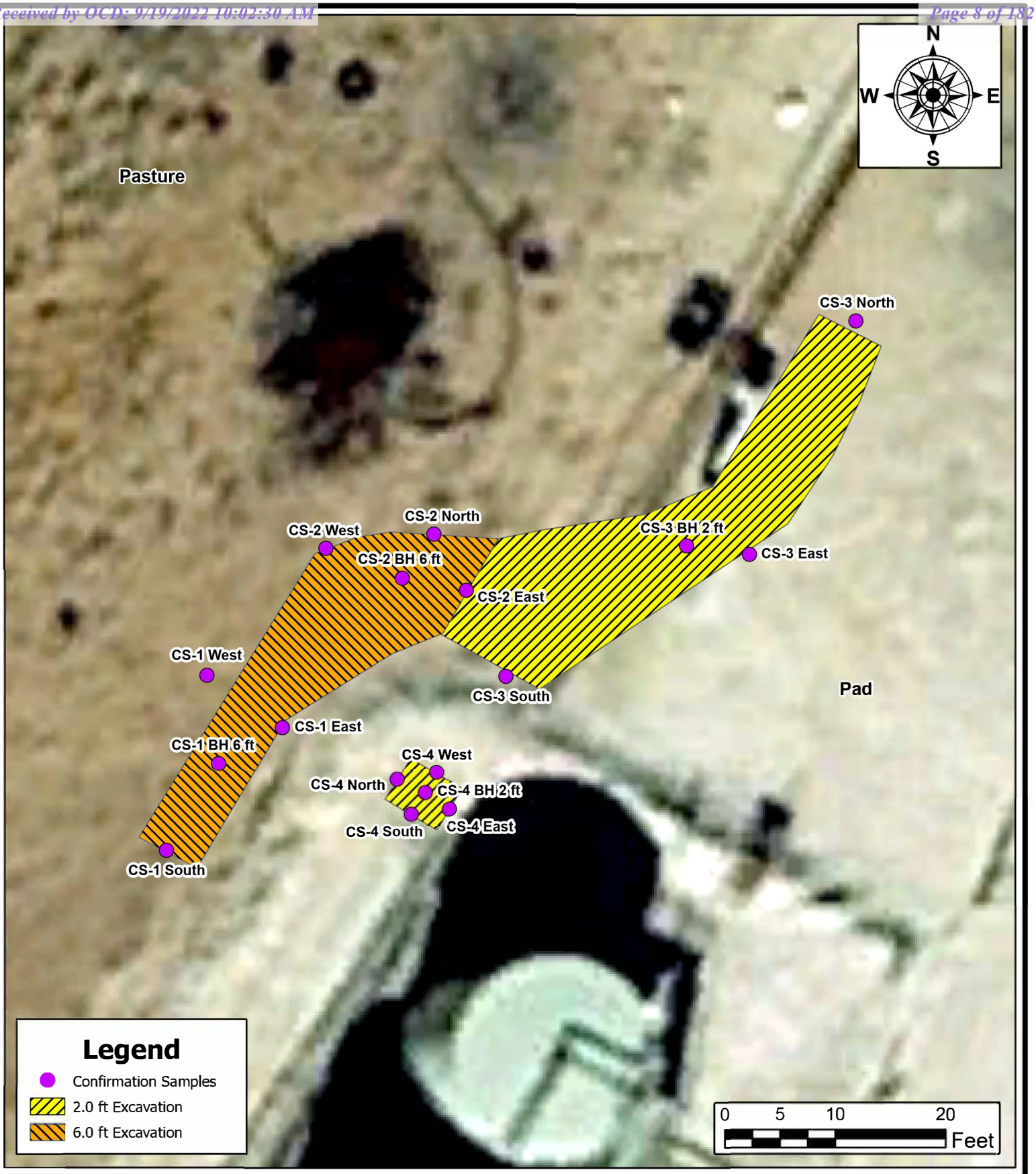
Midland, Texas 79701

NOTES:
1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983 UTM Zone 13N

DRAWING NUMBER:
FIGURE 2
SHEET NUMBER:
1 of 1



EXCAVATION DEPTH MAP
COG OPERATING
BURTON 35 001
LEA COUNTY, NEW MEXICO
32.092418, -103.536682

SCALE: As Shown | Date: 8/2/2022

CARMONA RESOURCES

Carmona Resources
310 West Wall Street, Suite 415
Midland, Texas 79701

NOTES:
1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983 UTM Zone 13N

DRAWING NUMBER:
FIGURE 3
SHEET NUMBER:
1 of 1

APPENDIX A

CARMONA RESOURCES

Table 1
Burton 35 #001 (10-21-20)
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)							Benzene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	DRO	GRO	MRO	*Total*	DRO	GRO	*Total*			
Average Depth to Groundwater (ft)											**<100'**			
NMOCD RRAL Limits (mg/kg)					-	-	-	**100**	-	-	**100**	**10**	**50**	**600**
AH-1 0-1'	11/4/2020	0-1'		X	8020	4370	622	13000	8020	4370	12390	0.0225	0.296	9.41
AH-1 1.5'	11/4/2020	1.5'		X	7390	5230	242	25100	7390	5230	12620	5.86	169	10.5
AH-1 2.5'	11/4/2020	2.5'		X	5530	4110	261	9900	5530	4110	9640	5.14	185	8.61
AH-1 3.5'	11/4/2020	3.5'		X	7560	5780	253	26400	7560	5780	13340	6.44	184	8.98
AH-1 4.5'	11/4/2020	4.5'		X	9770	7200	705	17700	9770	7200	16970	5.64	258	9.51
AH-1 5.5'	11/4/2020	5.5'		X	845	193	73.3	1110	845	193	1038	0.0212	0.307	8.93
T-1 3'	3/18/2021	3'		X	3730	2170	410	6310	3730	2170	5900	<0.00199	0.521	171
T-1 4'	3/18/2021	4'		X	3600	1960	409	5970	3600	1960	5560	0.00212	0.348	12
T-1 5'	3/18/2021	5'		X	3120	2250	339	5710	3120	2250	5370	<0.00198	0.318	<4.97
T-1 6'	3/18/2021	6'		X	1120	523	122	1770	1120	523	1643	<0.00200	1.40	5
T-1 7'	3/18/2021	7'	X		698	188	78.2	964	698	188	886	<0.00200	0.0812	6
T-1 8' (Refusal)	3/18/2021	8'	X		601	281	74.6	957	601	281	882	<0.00200	0.387	6
CS-1 Bottom Hole 6'	3/22/2021	6'	X		<49.9	<49.9	<49.9	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	6.03
CS-1 East	3/22/2021	-	X		<50.3	<50.3	<50.3	<50.3	<50.3	<50.3	<50.3	<0.00202	<0.00202	12.0
CS-1 South	3/22/2021	-	X		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	9.07
CS-1 West	3/22/2021	-	X		<49.9	<49.9	<49.9	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	6.91
AH-2 0-1'	11/4/2020	0-1'		X	10600	5770	798	17200	10600	5770	16370	2.31	228	7.65
AH-2 1.5'	11/4/2020	1.5'		X	9220	6030	716	16000	9220	6030	15250	0.0361	0.166	8.53
AH-2 2.5'	11/4/2020	2.5'		X	7140	5450	265	25200	7140	5450	12590	7.66	184	8.71
AH-2 3.5	11/4/2020	3.5'		X	3850	3040	231	7120	3850	3040	6890	3.40	109	19.7
AH-2 4.5'	11/4/2020	4.5'		X	7950	6530	287	29400	7950	6530	14480	13.6	14.0	9.21
AH-2 5.5'	11/4/2020	5.5'		X	7850	6080	289	27800	7850	6080	13930	9.38	9.86	8.32
T-2 3'	3/18/2021	3'		X	3990	3320	435	7750	3990	3320	7310	<0.00200	0.336	<5.05
T-2 4'	3/18/2021	4'		X	3990	3220	442	7650	3990	3220	7210	0.00215	0.270	<4.98
T-2 5'	3/18/2021	5'		X	4500	4000	514	9010	4500	4000	8500	<0.00198	0.00410	<4.99
T-2 6'	3/18/2021	6'		X	1370	604	159	2130	1370	604	1974	0.00243	0.740	<5.04
T-2 7'	3/18/2021	7'	X		1330	720	148	2200	1330	720	2050	<0.00199	0.451	5
T-2 8' (Refusal)	3/18/2021	8'	X		1120	481	131	1730	1120	481	1601	<0.00198	<0.00198	87
CS-2 Bottom Hole 6'	3/22/2021	6'	X		<49.9	<49.9	<49.9	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	14.7
CS-2 East	3/22/2021	-	X		<49.9	<49.9	<49.9	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	12.7
CS-2 North	3/22/2021	-	X		<50.1	<50.1	<50.1	<50.1	<50.1	<50.1	<50.1	<0.00202	<0.00202	5.79
CS-2 West	3/22/2021	-	X		<49.8	<49.8	<49.8	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	7.47
AH-3 0.1'	11/4/2020	0-1'		X	4880	2990	291	8160	4880	2990	7870	0.992	79.7	5580

AH-3 1.5'	11/4/2020	1.5'		X	7440	4800	596	12800	7440	4800	12240	5.49	101	1800
AH-3 2.5'	11/4/2020	2.5'	X		122	<49.9	<49.9	122	122	<49.9	122	0.0244	1.21	65.2
AH-3 3.5'	11/4/2020	3.5'	X		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	0.0106	0.125	15.5
AH-3 4.5'	11/4/2020	4.5'	X		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	0.00710	0.0889	16.6
CS-3 Bottom Hole 2'	3/22/2021	2'	X		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	5.23
CS-3 East	3/22/2021	-	X		<49.8	<49.8	<49.8	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<5.05
CS-3 North	3/22/2021	-	X		<49.7	<49.7	<49.7	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	8.13
CS-3 South	3/22/2021	-	X		<49.9	<49.9	<49.9	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	6.66
AH-4 0-1'	11/4/2020	0-1'		X	7680	4320	621	12600	7680	4320	12000	3.64	132	65.7
AH-4 1.5'	11/4/2020	1.5'		X	6410	4630	304	22100	6410	4630	11040	6.59	62.0	12.3
AH-4 2.5'	11/4/2020	2.5'	X		212	62.1	<49.9	274	212	62.1	274	0.0128	0.184	10.4
AH-4 3.5'	11/4/2020	3.5'	X		<49.9	<49.9	<49.9	<49.9	<49.9	<49.9	<49.9	0.00358	0.0176	14.7
AH-4 4.5'	11/4/2020	4.5'	X		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	0.00203	0.0142	17.8
CS-4 Bottom Hole 2'	3/22/2021	2'	X		<49.9	<49.9	<49.9	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	7.99
CS-4 East	3/22/2021	-	X		<49.8	<49.8	<49.8	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	7.52
CS-4 North	3/22/2021	-	X		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	7.83
CS-4 South	3/22/2021	-	X		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	11.3
CS-4 West	3/22/2021	-	X		<49.9	<49.9	<49.9	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	7.57
North 0-0.5'	11/4/2020	0-0.5'	X		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	0.00252	0.00871	13.2
South 0-0.5'	11/4/2020	0-0.5'	X		<49.9	<49.9	<49.9	<49.9	<49.9	<49.9	<49.9	0.00360	0.0106	12.4
East 0-0.5'	11/4/2020	0-0.5'	X		<49.8	<49.8	<49.8	<49.8	<49.8	<49.8	<49.8	0.00227	0.00684	13.0
West 0-0.5'	11/4/2020	0-0.5'	X		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	0.0311	0.0945	13.9

Material Excavated

APPENDIX B

CARMONA RESOURCES

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

State of New Mexico
Energy Minerals and Natural Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # *(assigned by OCD)*
Contact mailing address	

Location of Release Source

Latitude _____ Longitude _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Site Type
Date Release Discovered	API# *(if applicable)*

Unit Letter	Section	Township	Range	County

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)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release		

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)?	

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:

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 _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

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?	_____ (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: Jacqui Harris Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Jocelyn Harimon Date: 09/19/2022

State of New Mexico
Oil Conservation Division

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: Jacqui Harris Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Jocelyn Harimon Date: 09/19/2022

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: Jennifer Nobui Date: _____

Printed Name: _____ Title: _____

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Wednesday, June 8, 2022 2:18 PM
To: Esparza, Brittany <Brittany.Esparza@conocophillips.com>
Subject: [EXTERNAL]The Oil Conservation Division (OCD) has rejected the application, Application ID: 26822

To whom it may concern (c/o Brittany Esparza for COG OPERATING LLC),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nRM2032541640, for the following reasons:

- **Closure Report Denied. The depth to groundwater has not been adequately determined. When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided in the submission. The responsible party may choose to remediate to the most stringent levels listed in Table 1 of 19.15.29 NMAC in lieu of drilling to determine the depth to groundwater. Please include a site plan with delineation sample locations (T-1, T-2, AH-3, AH-4 etc). Please resubmit revised Closure Report to OCD by August 12, 2022.**

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 26822.
Please review and make the required correction(s) prior to resubmitting.
If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you,
Jennifer Nobui
Environmental Specialist-Advanced
505-476-3441
Jennifer.Nobui@state.nm.us

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

APPENDIX C

CARMONA RESOURCES

GROUNDWATER DETERMINATION BORE

COG OPERATING

Legend
- 0.50 Mile Radius
- Burton 35 001
- GWDB - 55'

Burton 35 001
GWDB - 55'
Brownbear loading station

N

2000 ft

CARMONA RESOURCES

Project Name :	**Burton 35 001**	**Date :**	**Tuesday, July 19, 2022**
Project No. :	**1077**	**Sampler :**	**Lane Scarborough**
Location :	**Lea County, New Mexico**		
Coordinates :	**32.094011°, -103.537384°**	**Driller :**	**Scarborough Drilling**
Elevation :	**3,343**	**Method :**	**Air Rotary**

Depth (ft.)	WL	Soil Description	Lithology
0		(0') - White soft, silty, loose, fine sand with gypsum fragments, no odor, no organics, dry (SM)	
5		(5') - White soft, silty, loose, fine sand with gypsum fragments, no odor, no organics, dry (SM)	
10		(10') - White soft, silty, loose, fine sand with gypsum fragments, no odor, no organics, dry (SM)	
15		(15') - White soft, silty, loose, fine sand with gypsum fragments, no odor, no organics, dry (SM)	
20		(20') - Red to Brown soft, silty, loose, fine sand with gypsum fragments, no odor, no organics, dry (SM)	
25		(25') - Red to Brown soft, silty, loose, fine sand with gypsum fragments, no odor, no organics, dry (SM)	
30		(30') - Red to Brown soft, silty, loose, fine sand with gypsum fragments, no odor, no organics, dry (SM)	
35		(35') - Red to Brown soft, silty, loose, fine sand with gypsum fragments, no odor, no organics, dry (SM)	
40		(40') - Red to Brown soft, silty, loose, fine sand with gypsum fragments, no odor, no organics, dry (SM)	
45		(45') - Red to Brown soft, silty, loose, fine sand with gypsum fragments, no odor, no organics, dry (SM)	
50			

Depth (ft.)	WL	Soil Description	Lithology
50		(50') - Red to Brown soft, silty, loose, fine sand with gypsum fragments, no odor, no organics, dry (SM)	
55		(55') - Red to Brown soft, silty, loose, fine sand with gypsum fragments, no odor, no organics, dry (SM)	
60			
65			
70			
75			
80			
85			
90			
95			
105			

Comments : Boring terminated at 55' with no presence of groundwater or moisture.
Driller utilized water at 40' due to bore hole collapsing.

NEAREST WATER WELL

COG OPERATING

Legend

- 0.50 Mile Radius
- 0.75 Miles
- 1.94 Miles
- 2.11 Miles
- Burton 35 001
- NMSEO WATER WELL
- USGS WATER WELL

110' - Drilled 1925

Burton 35 001

Brownbear loading station

ANDX Brown Bear TUL

W.W. 160' - 1949

176.81' - Drilled 2013

Jafar Compressor Station

N

4000 ft

Google Earth

LOW KARST

COG OPERATING

Legend

Burton 35 001

Low

Medium

Burton 35 001 °

2

ANDX Brown Bear TUL

Integrity 7

N

1 mi

Google Earth

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

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	POD Sub-basin Code	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 02313	CUB	LE	2	3	3	26	25S	33E	636971	3552098*	1214	150	110	40
C 02291	CUB	LE	1	1	2	06	26S	34E	640825	3550140*	3111	220	160	60
C 02285 POD1	CUB	LE	1	4	4	03	26S	33E	636613	3548855	3129	220	220	0
C 02288	CUB	LE	4	4	4	03	26S	33E	636646	3548758	3200	220	180	40
C 02290	CUB	LE	4	4	4	03	26S	33E	636538	3548770	3239	200	160	40
C 03441 POD1	C	LE	4	1	2	06	26S	34E	640971	3550039	3287	250		
C 02289	CUB	LE	4	4	4	03	26S	33E	636612	3548675*	3290	200	160	40
C 02286	CUB	LE	3	4	4	03	26S	33E	636470	3548714	3321	220	175	45
C 02292 POD1	CUB	LE	4	1	2	06	26S	34E	640992	3549987	3331	200	140	60
C 02287	C	LE	3	4	4	03	26S	33E	636427	3548708	3348	220		
C 03442 POD1	C	LE	4	1	2	06	26S	34E	641056	3550028	3367	251		
C 02316	CUB	LE	3	4	3	29	25S	34E	642003	3551967*	3932	100	50	50
C 02317	CUB	LE	3	4	3	29	25S	34E	642003	3551967*	3932	100	50	50

Average Depth to Water: **140 feet**

Minimum Depth: **50 feet**

Maximum Depth: **220 feet**

Record Count: 13

UTMNAD83 Radius Search (in meters):

Easting (X): 638085.97 **Northing (Y):** 3551616.57 **Radius:** 4000

***UTM location was derived from PLSS - see Help**

New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	C 02313	2	3	3	26	25S	33E	636971	3552098*

Driller License: **Driller Company:**

Driller Name: UNKNOWN

Drill Start Date:	01/01/1925	**Drill Finish Date:**	06/30/1925	**Plug Date:**	
Log File Date:		**PCW Rcv Date:**		**Source:**	
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	60 GPM
Casing Size:	6.88	**Depth Well:**	150 feet	**Depth Water:**	110 feet

***UTM location was derived from PLSS - see Help**

New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	C 02291	1	1	2	06	26S	34E	640825	3550140*

Driller License: **Driller Company:**

Driller Name:

Drill Start Date:		**Drill Finish Date:**	12/31/1949	**Plug Date:**	
Log File Date:		**PCW Rcv Date:**		**Source:**	
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	15 GPM
Casing Size:	6.00	**Depth Well:**	220 feet	**Depth Water:**	160 feet

***UTM location was derived from PLSS - see Help**

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater | Geographic Area: New Mexico | GO

Click to hideNews Bulletins

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

Groundwater levels for New Mexico

Click to hide state-specific text

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 320419103302201

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 320419103302201 26S.34E.06.21414

Lea County, New Mexico
Latitude 32°04'37.9", Longitude 103°30'20.5" NAD83
Land-surface elevation 3,319.00 feet above NGVD29
The depth of the well is 360 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Chinle Formation (231CHNL) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1954-07-23		D	62610		3177.05	NGVD29	1	Z		
1954-07-23		D	62611		3178.63	NAVD88	1	Z		
1954-07-23		D	72019	141.95			1	Z		
1971-10-20		D	62610		3190.57	NGVD29	1	Z		
1971-10-20		D	62611		3192.15	NAVD88	1	Z		
1971-10-20		D	72019	128.43			1	Z		
1981-03-25		D	62610		3189.57	NGVD29	1	Z		
1981-03-25		D	62611		3191.15	NAVD88	1	Z		
1981-03-25		D	72019	129.43			1	Z		
1986-03-04		D	62610		3193.12	NGVD29	1	Z		
1986-03-04		D	62611		3194.70	NAVD88	1	Z		
1986-03-04		D	72019	125.88			1	Z		
1991-06-12		D	62610		3192.18	NGVD29	1	Z		
1991-06-12		D	62611		3193.76	NAVD88	1	Z		

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1991-06-12		D	72019	126.82			1	Z		
2013-01-16	21:00 UTC	m	62610		3142.19	NGVD29	1	S	USGS	
2013-01-16	21:00 UTC	m	62611		3143.77	NAVD88	1	S	USGS	
2013-01-16	21:00 UTC	m	72019	176.81			1	S	USGS	

Explanation

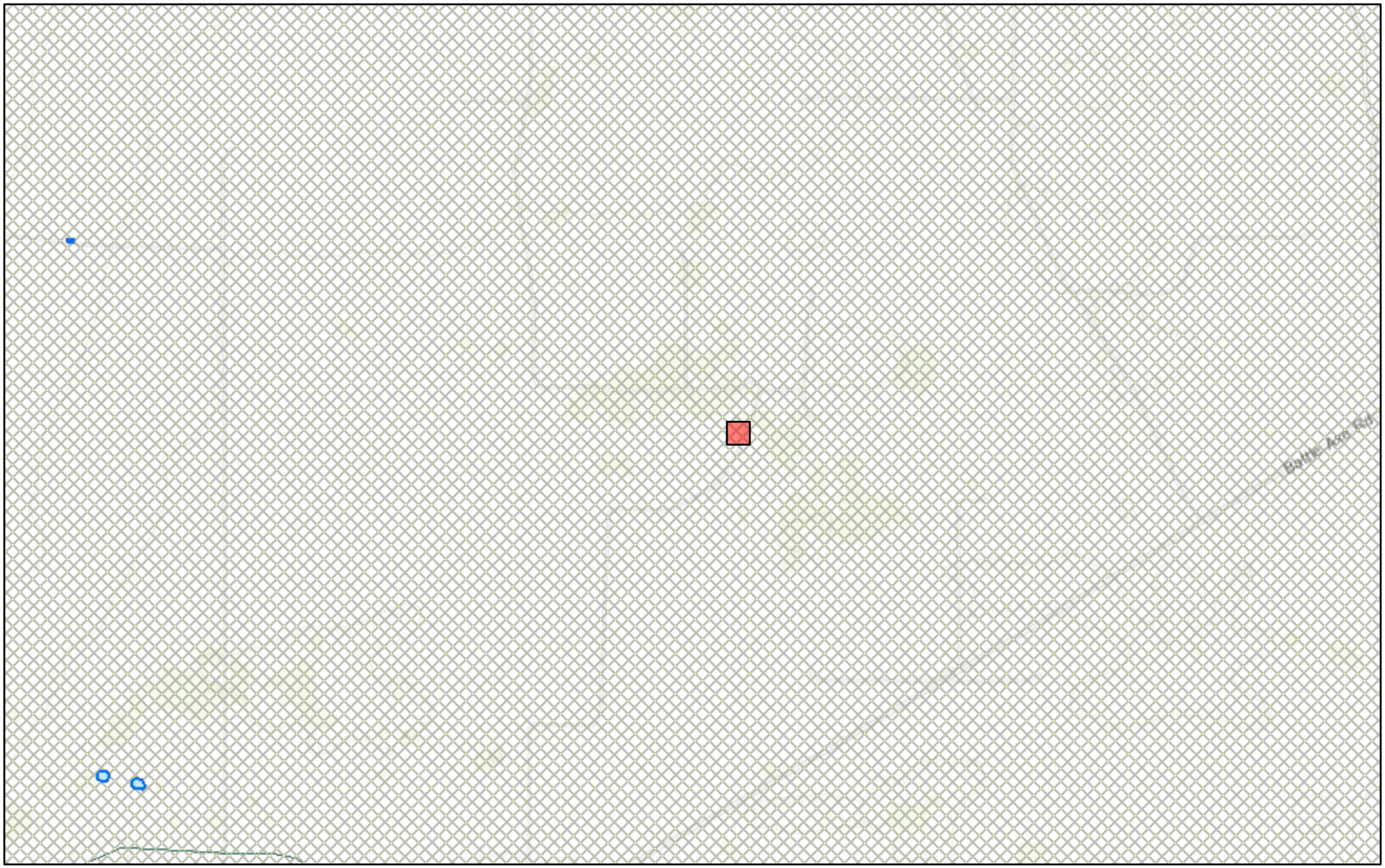
Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to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

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

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

Page Contact Information: New Mexico Water Data Maintainer
Page Last Modified: 2022-06-10 08:32:54 EDT
0.28 0.23 nadww02

New Mexico NFHL Data



June 10, 2022

1:36,112

0 0.25 0.5 1 mi

0 0.4 0.8 1.6 km

FEMA, Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey,

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APPENDIX D

CARMONA RESOURCES

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Certificate of Analysis Summary 677009

COG Operating LLC, Artesia, NM

Project Name: Burton 35 #1 TB (10-21-20)

Project Id:

Contact: Ike Tavarez

Project Location: Lea County, NM

Date Received in Lab: Thu 11.05.2020 14:54

Report Date: 11.10.2020 16:00

Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	677009-001		677009-002		677009-003		677009-004		677009-005		677009-006	
	Field Id:	AH-1 0-1'		AH-1 1.5'		AH-1 2.5'		AH-1 3.5'		AH-1 4.5'		AH-1 5.5'	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	11.04.2020 00:00		11.04.2020 00:00		11.04.2020 00:00		11.04.2020 00:00		11.04.2020 00:00		11.04.2020 00:00	
BTEX by EPA 8021B	***Extracted:***	11.05.2020 17:00		11.05.2020 17:00		11.05.2020 17:00		11.05.2020 17:00		11.05.2020 17:00		11.05.2020 17:00	
	Analyzed:	11.05.2020 19:34		11.06.2020 16:14		11.06.2020 16:34		11.06.2020 16:55		11.06.2020 17:16		11.05.2020 21:17	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		0.0225 X	0.00200	5.86	0.202	5.14	0.199	6.44	0.201	5.64	0.202	0.0212	0.00200
Toluene		0.0822 X	0.00200	44.2 D	0.403	51.3 D	0.398	72.8 D	0.402	80.2 D	1.01	0.0647	0.00200
Ethylbenzene		0.0484 XF	0.00200	14.3	0.202	15.4	0.199	11.9	0.201	14.9	0.202	0.0171	0.00200
m,p-Xylenes		0.113 X	0.00399	77.9 D	0.806	88.0 D	0.797	73.4	0.402	134 D	2.02	0.157	0.00399
o-Xylene		0.0302 XF	0.00200	26.5	0.202	24.8	0.199	19.8	0.201	23.1	0.202	0.0466	0.00200
Total Xylenes		0.143	0.00200	104	0.202	113	0.199	93.2	0.201	157	0.202	0.204	0.00200
Total BTEX		0.296	0.00200	169	0.202	185	0.199	184	0.201	258	0.202	0.307	0.00200
Chloride by EPA 300	***Extracted:***	11.05.2020 16:00		11.05.2020 16:00		11.05.2020 16:00		11.05.2020 16:00		11.05.2020 17:00		11.05.2020 17:00	
	Analyzed:	11.05.2020 19:04		11.05.2020 19:10		11.05.2020 19:17		11.05.2020 19:23		11.05.2020 20:04		11.05.2020 20:20	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		9.41	5.03	10.5	5.03	8.61	5.00	8.98	5.00	9.51	4.99	8.93	5.01
TPH By SW8015 Mod	***Extracted:***	11.05.2020 17:00		11.05.2020 17:00		11.05.2020 17:00		11.05.2020 17:00		11.05.2020 17:00		11.05.2020 17:00	
	Analyzed:	11.06.2020 11:34		11.06.2020 03:20		11.06.2020 03:39		11.06.2020 03:57		11.06.2020 10:33		11.06.2020 04:35	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons		4370	250	5230	50.0	4110	49.9	5780	50.0	7200	250	193	49.9
Diesel Range Organics		8020 X	250	7390	50.0	5530	49.9	7560	50.0	9770	250	845	49.9
Motor Oil Range Hydrocarbons (MRO)		622	250	242	50.0	261	49.9	253	50.0	705	250	73.3	49.9
Total TPH		13000	250	25100	50.0	9900	49.9	26400	50.0	17700	250	1110	49.9

BRL - Below Reporting Limit

Jessica Kramer

eurofins | Environment Testing Xenco

Certificate of Analysis Summary 677009

COG Operating LLC, Artesia, NM

Project Name: Burton 35 #1 TB (10-21-20)

Project Id:

Contact: Ike Tavarez

Project Location: Lea County, NM

Date Received in Lab: Thu 11.05.2020 14:54

Report Date: 11.10.2020 16:00

Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	677009-007		677009-008		677009-009		677009-010		677009-011		677009-012	
	Field Id:	AH-2 0-1'		AH-2 1.5'		AH-2 2.5'		AH-2 3.5		AH-2 4.5'		AH-2 5.5'	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	11.04.2020 00:00		11.04.2020 00:00		11.04.2020 00:00		11.04.2020 00:00		11.04.2020 00:00		11.04.2020 00:00	
BTEX by EPA 8021B	***Extracted:***	11.05.2020 17:00		11.05.2020 17:00		11.05.2020 17:00		11.05.2020 17:00		11.05.2020 17:00		11.05.2020 17:00	
	Analyzed:	11.06.2020 17:37		11.05.2020 21:58		11.06.2020 17:57		11.05.2020 22:39		11.06.2020 00:03		11.06.2020 00:24	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		2.31	0.200	0.0361	0.00200	7.66	0.398	3.40 D	0.402	13.6 D	0.401	9.38 D	0.399
Toluene		49.4 D	0.401	0.0858	0.00200	55.1	0.398	31.9 D	0.402	0.0980	0.00200	0.0952	0.00200
Ethylbenzene		17.2	0.200	0.0198	0.00200	14.6	0.398	7.61 D	0.402	<0.00200	0.00200	0.163	0.00200
m,p-Xylenes		124 D	0.802	0.00989	0.00401	83.7	0.797	51.7 D	0.805	0.143	0.00401	0.114	0.00399
o-Xylene		35.2	0.200	0.0145	0.00200	23.2	0.398	14.5 D	0.402	0.140	0.00200	0.109	0.00200
Total Xylenes		159	0.200	0.0244	0.00200	107	0.398	66.2	0.402	0.283	0.00200	0.223	0.00200
Total BTEX		228	0.200	0.166	0.00200	184	0.398	109	0.402	14.0	0.00200	9.86	0.00200
Chloride by EPA 300	***Extracted:***	11.05.2020 17:00		11.05.2020 17:00		11.05.2020 17:00		11.05.2020 17:00		11.05.2020 17:00		11.05.2020 17:00	
	Analyzed:	11.05.2020 20:25		11.05.2020 20:30		11.06.2020 10:22		11.06.2020 08:42		11.06.2020 08:47		11.06.2020 08:52	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		7.65	4.98	8.53	5.00	8.71	5.00	19.7	5.00	9.21	5.01	8.32	5.03
TPH By SW8015 Mod	***Extracted:***	11.05.2020 17:00		11.05.2020 17:00		11.05.2020 17:00		11.05.2020 17:00		11.05.2020 17:00		11.05.2020 17:00	
	Analyzed:	11.06.2020 10:53		11.06.2020 11:13		11.06.2020 05:31		11.06.2020 05:50		11.06.2020 06:28		11.06.2020 06:49	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons		5770	249	6030	250	5450	49.9	3040	50.0	6530	50.0	6080	49.9
Diesel Range Organics		10600	249	9220	250	7140	49.9	3850	50.0	7950	50.0	7850	49.9
Motor Oil Range Hydrocarbons (MRO)		798	249	716	250	265	49.9	231	50.0	287	50.0	289	49.9
Total TPH		17200	249	16000	250	25200	49.9	7120	50.0	29400	50.0	27800	49.9

BRL - Below Reporting Limit

Jessica Kramer

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

eurofins | Environment Testing Xenco

Certificate of Analysis Summary 677009

COG Operating LLC, Artesia, NM

Project Name: Burton 35 #1 TB (10-21-20)

Project Id:

Contact: Ike Tavarez

Project Location: Lea County, NM

Date Received in Lab: Thu 11.05.2020 14:54

Report Date: 11.10.2020 16:00

Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	677009-013		677009-014		677009-015		677009-016		677009-017		677009-018	
	Field Id:	AH-3 0.1'		AH-3 1.5'		AH-3 2.5'		AH-3 3.5'		AH-3 3.5'		AH-4 0-1'	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	11.04.2020 00:00		11.04.2020 00:00		11.04.2020 00:00		11.04.2020 00:00		11.04.2020 00:00		11.04.2020 00:00	
BTEX by EPA 8021B	***Extracted:***	11.05.2020 17:00		11.05.2020 17:00		11.05.2020 17:00		11.05.2020 17:00		11.05.2020 17:00		11.05.2020 17:00	
	Analyzed:	11.06.2020 00:44		11.06.2020 01:05		11.06.2020 01:25		11.06.2020 01:46		11.06.2020 02:07		11.06.2020 02:27	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		0.992 D	0.199	5.49 D	0.200	0.0244	0.00200	0.0106	0.00199	0.00710	0.00200	3.64 D	0.401
Toluene		21.4 D	0.199	56.4 D	0.400	0.207	0.00200	0.0293	0.00199	0.0282	0.00200	43.0 D	0.401
Ethylbenzene		1.00 D	0.199	2.80 D	0.200	0.0949	0.00200	0.0182	0.00199	0.0121	0.00200	1.85 D	0.401
m,p-Xylenes		56.2 D	0.398	0.757	0.00400	0.655	0.00400	0.0367	0.00398	0.0323	0.00399	83.3 D	0.802
o-Xylene		0.122	0.00199	35.2 D	0.200	0.224	0.00200	0.0297	0.00199	0.00915	0.00200	0.114	0.00200
Total Xylenes		56.3	0.00199	36.0	0.00400	0.879	0.00200	0.0664	0.00199	0.0415	0.00200	83.4	0.00200
Total BTEX		79.7	0.00199	101	0.00400	1.21	0.00200	0.125	0.00199	0.0889	0.00200	132	0.00200
Chloride by EPA 300	***Extracted:***	11.05.2020 17:00		11.05.2020 17:00		11.05.2020 17:00		11.05.2020 17:00		11.05.2020 17:00		11.05.2020 17:00	
	Analyzed:	11.06.2020 08:58		11.06.2020 09:03		11.06.2020 09:08		11.06.2020 09:24		11.06.2020 09:29		11.06.2020 09:45	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		5580	50.5	1800	24.8	65.2 X	4.95	15.5	5.01	16.6	5.02	65.7	5.05
TPH By SW8015 Mod	***Extracted:***	11.05.2020 17:00		11.05.2020 17:00		11.05.2020 17:00		11.05.2020 17:00		11.05.2020 17:00		11.05.2020 17:00	
	Analyzed:	11.06.2020 07:08		11.06.2020 07:29		11.06.2020 07:49		11.06.2020 08:09		11.06.2020 08:30		11.06.2020 08:50	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons		2990	50.0	4800	250	<49.9	49.9	<50.0	50.0	<50.0	50.0	4320	250
Diesel Range Organics		4880	50.0	7440	250	122	49.9	<50.0	50.0	<50.0	50.0	7680	250
Motor Oil Range Hydrocarbons (MRO)		291	50.0	596	250	<49.9	49.9	<50.0	50.0	<50.0	50.0	621	250
Total TPH		8160	50.0	12800	250	122	49.9	<50.0	50.0	<50.0	50.0	12600	250

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Certificate of Analysis Summary 677009

COG Operating LLC, Artesia, NM

Project Name: Burton 35 #1 TB (10-21-20)

Project Id:

Contact: Ike Tavarez

Project Location: Lea County, NM

Date Received in Lab: Thu 11.05.2020 14:54

Report Date: 11.10.2020 16:00

Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	677009-019		677009-020		677009-021		677009-022		677009-023		677009-024	
	Field Id:	AH-4 1.5'		AH-4 2.5'		AH-4 3.5'		AH-4 4.5'		North		South	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	11.04.2020 00:00		11.04.2020 00:00		11.04.2020 00:00		11.04.2020 00:00		11.04.2020 00:00		11.04.2020 00:00	
BTEX by EPA 8021B	***Extracted:***	11.05.2020 17:00		11.05.2020 17:00		11.05.2020 17:00		11.05.2020 17:00		11.05.2020 17:00		11.05.2020 17:00	
	Analyzed:	11.06.2020 02:48		11.06.2020 03:08		11.06.2020 11:24		11.06.2020 11:45		11.06.2020 12:05		11.06.2020 12:26	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		6.59 D	0.400	0.0128	0.00200	0.00358	0.00198	0.00203	0.00198	0.00252	0.00199	0.00360	0.00200
Toluene		54.6 D	0.400	0.0129	0.00200	0.00909	0.00198	0.00743	0.00198	0.00619	0.00199	0.00704	0.00200
Ethylbenzene		0.369	0.00200	0.0929	0.00200	<0.00198	0.00198	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200
m,p-Xylenes		0.169	0.00400	0.0548	0.00399	0.00491	0.00397	0.00478	0.00396	<0.00398	0.00398	<0.00400	0.00400
o-Xylene		0.251	0.00200	0.0109	0.00200	<0.00198	0.00198	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200
Total Xylenes		0.420	0.00200	0.0657	0.00200	0.00491	0.00198	0.00478	0.00198	<0.00199	0.00199	<0.00200	0.00200
Total BTEX		62.0	0.00200	0.184	0.00200	0.0176	0.00198	0.0142	0.00198	0.00871	0.00199	0.0106	0.00200
Chloride by EPA 300	***Extracted:***	11.05.2020 17:00		11.05.2020 17:00		11.05.2020 17:00		11.05.2020 17:00		11.05.2020 17:00		11.05.2020 17:00	
	Analyzed:	11.06.2020 09:50		11.06.2020 09:56		11.06.2020 10:01		11.06.2020 10:06		11.06.2020 10:11		11.06.2020 10:17	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		12.3	5.00	10.4	4.96	14.7	4.97	17.8	4.99	13.2	4.98	12.4	4.97
TPH By SW8015 Mod	***Extracted:***	11.05.2020 17:00		11.05.2020 17:00		11.05.2020 16:00		11.05.2020 16:00		11.05.2020 16:00		11.05.2020 16:00	
	Analyzed:	11.06.2020 09:11		11.06.2020 09:32		11.05.2020 20:56		11.05.2020 21:15		11.05.2020 21:34		11.05.2020 22:13	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons		4630	50.0	62.1	49.9	<49.9	49.9	<50.0	50.0	<50.0	50.0	<49.9	49.9
Diesel Range Organics		6410	50.0	212	49.9	<49.9	49.9	<50.0	50.0	<50.0	50.0	<49.9	49.9
Motor Oil Range Hydrocarbons (MRO)		304	50.0	<49.9	49.9	<49.9	49.9	<50.0	50.0	<50.0	50.0	<49.9	49.9
Total TPH		22100	50.0	274	49.9	<49.9	49.9	<50.0	50.0	<50.0	50.0	<49.9	49.9

BRL - Below Reporting Limit

Jessica Kramer

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Certificate of Analysis Summary 677009

COG Operating LLC, Artesia, NM

Project Name: Burton 35 #1 TB (10-21-20)

Project Id:
Contact: Ike Tavarez
Project Location: Lea County, NM

Date Received in Lab: Thu 11.05.2020 14:54
Report Date: 11.10.2020 16:00
Project Manager: Jessica Kramer

Analysis Requested									
	Lab Id:	677009-025		677009-026					
	Field Id:	East		West					
	Depth:								
	Matrix:	SOIL		SOIL					
	Sampled:	11.04.2020 00:00		11.04.2020 00:00					
BTEX by EPA 8021B	***Extracted:***	11.05.2020 17:00		11.05.2020 17:00					
	Analyzed:	11.06.2020 12:47		11.06.2020 13:07					
	Units/RL:	mg/kg	RL	mg/kg	RL				
Benzene		0.00227	0.00200	0.0311	0.00202				
Toluene		0.00457	0.00200	0.0259	0.00202				
Ethylbenzene		<0.00200	0.00200	0.00343	0.00202				
m,p-Xylenes		<0.00399	0.00399	0.0260	0.00404				
o-Xylene		<0.00200	0.00200	0.00807	0.00202				
Total Xylenes		<0.00200	0.00200	0.0341	0.00202				
Total BTEX		0.00684	0.00200	0.0945	0.00202				
Chloride by EPA 300	***Extracted:***	11.05.2020 18:50		11.05.2020 18:50					
	Analyzed:	11.06.2020 11:08		11.06.2020 11:23					
	Units/RL:	mg/kg	RL	mg/kg	RL				
Chloride		13.0	4.96	13.9	4.97				
TPH By SW8015 Mod	***Extracted:***	11.05.2020 16:00		11.05.2020 16:00					
	Analyzed:	11.05.2020 22:32		11.05.2020 22:51					
	Units/RL:	mg/kg	RL	mg/kg	RL				
Gasoline Range Hydrocarbons		<49.8	49.8	<50.0	50.0				
Diesel Range Organics		<49.8	49.8	<50.0	50.0				
Motor Oil Range Hydrocarbons (MRO)		<49.8	49.8	<50.0	50.0				
Total TPH		<49.8	49.8	<50.0	50.0				

BRL - Below Reporting Limit

Jessica Kramer

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Analytical Report 677009

for

COG Operating LLC

Project Manager: Ike Tavarez

Burton 35 #1 TB (10-21-20)

11.10.2020

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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11.10.2020

Project Manager: **Ike Tavarez**
COG Operating LLC
2407 Pecos Avenue
Artesia, NM 88210

Reference: Eurofins Xenco, LLC Report No(s): **677009**
Burton 35 #1 TB (10-21-20)
Project Address: Lea County, NM

Ike Tavarez:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 677009. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 677009 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

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Sample Cross Reference 677009

COG Operating LLC, Artesia, NM

Burton 35 #1 TB (10-21-20)

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
AH-1 0-1'	S	11.04.2020 00:00		677009-001
AH-1 1.5'	S	11.04.2020 00:00		677009-002
AH-1 2.5'	S	11.04.2020 00:00		677009-003
AH-1 3.5'	S	11.04.2020 00:00		677009-004
AH-1 4.5'	S	11.04.2020 00:00		677009-005
AH-1 5.5'	S	11.04.2020 00:00		677009-006
AH-2 0-1'	S	11.04.2020 00:00		677009-007
AH-2 1.5'	S	11.04.2020 00:00		677009-008
AH-2 2.5'	S	11.04.2020 00:00		677009-009
AH-2 3.5	S	11.04.2020 00:00		677009-010
AH-2 4.5'	S	11.04.2020 00:00		677009-011
AH-2 5.5'	S	11.04.2020 00:00		677009-012
AH-3 0.1'	S	11.04.2020 00:00		677009-013
AH-3 1.5'	S	11.04.2020 00:00		677009-014
AH-3 2.5'	S	11.04.2020 00:00		677009-015
AH-3 3.5'	S	11.04.2020 00:00		677009-016
AH-3 3.5'	S	11.04.2020 00:00		677009-017
AH-4 0-1'	S	11.04.2020 00:00		677009-018
AH-4 1.5'	S	11.04.2020 00:00		677009-019
AH-4 2.5'	S	11.04.2020 00:00		677009-020
AH-4 3.5'	S	11.04.2020 00:00		677009-021
AH-4 4.5'	S	11.04.2020 00:00		677009-022
North	S	11.04.2020 00:00		677009-023
South	S	11.04.2020 00:00		677009-024
East	S	11.04.2020 00:00		677009-025
West	S	11.04.2020 00:00		677009-026

CASE NARRATIVE

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Client Name: COG Operating LLC

Project Name: Burton 35 #1 TB (10-21-20)

Project ID:
Work Order Number(s): *677009*

Report Date: *11.10.2020*
Date Received: *11.05.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3141549 BTEX by EPA 8021B

Surrogate 1,4-Difluorobenzene recovered below QC limits. Matrix interferences is suspected.
Samples affected are: 677009-001 S,677009-001 SD,677009-003,677009-001,677009-007,677009-008,677009-009,677009-013,677009-020,677009-002,677009-004.
Surrogate 4-Bromofluorobenzene recovered below QC limits. Matrix interferences is suspected.
Samples affected are: 677009-001 S,677009-001 SD,677009-020,677009-019,677009-001,677009-002,677009-003,677009-004,677009-005,677009-007,677009-008,677009-009,677009-011,677009-012.
Surrogate 1,4-Difluorobenzene recovered above QC limits. Matrix interferences is suspected.
Samples affected are: 677009-010,677009-011,677009-012,677009-014,677009-018,677009-019.
Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected.
Samples affected are: 677009-010,677009-013,677009-014,677009-015,677009-018.

Ethylbenzene, o-Xylene Relative Percent Difference (RPD) between matrix spike and duplicate were above quality control limits.
Samples in the analytical batch are: 677009-001, -002, -003, -004, -005, -006, -007, -008, -009, -010, -011, -012, -013, -014, -015, -016, -017, -018, -019, -020

Lab Sample ID 677009-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 677009-001, -002, -003, -004, -005, -006, -007, -008, -009, -010, -011, -012, -013, -014, -015, -016, -017, -018, -019, -020.
The Laboratory Control Sample for Toluene, Benzene, m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3141556 TPH By SW8015 Mod

Lab Sample ID 677009-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Diesel Range Organics recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 677009-001, -002, -003, -004, -005, -006, -007, -008, -009, -010, -011, -012, -013, -014, -015, -016, -017, -018, -019, -020.
The Laboratory Control Sample for Diesel Range Organics is within laboratory Control Limits, therefore the data was accepted.

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CASE NARRATIVE

Client Name: COG Operating LLC

Project Name: Burton 35 #1 TB (10-21-20)

Project ID:
Work Order Number(s): *677009*

Report Date: *11.10.2020*
Date Received: *11.05.2020*

Batch: LBA-3141575 Chloride by EPA 300

Lab Sample ID 677009-015 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered below QC limits in the Matrix Spike. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 677009-005, -006, -007, -008, -009, -010, -011, -012, -013, -014, -015, -016, -017, -018, -019, -020, -021, -022, -023, -024.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3141630 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected. Samples affected are: 677009-002,677009-003,677009-004,677009-007,677009-009,677009-005.

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Certificate of Analytical Results 677009

COG Operating LLC, Artesia, NM

Burton 35 #1 TB (10-21-20)

Sample Id: **AH-1 0-1'** Matrix: Soil Date Received:11.05.2020 14:54

Lab Sample Id: 677009-001 Date Collected: 11.04.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 11.05.2020 16:00 % Moisture:

Seq Number: 3141573 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**9.41**	5.03	mg/kg	11.05.2020 19:04		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 11.05.2020 17:00 % Moisture:

Seq Number: 3141556 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	**4370**	250	mg/kg	11.06.2020 11:34		5
Diesel Range Organics	C10C28DRO	**8020**	250	mg/kg	11.06.2020 11:34	X	5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**622**	250	mg/kg	11.06.2020 11:34		5
Total TPH	PHC635	**13000**	250	mg/kg	11.06.2020 11:34		5

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-130	11.06.2020 11:34	
o-Terphenyl	84-15-1	96	%	70-130	11.06.2020 11:34	

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Certificate of Analytical Results 677009

COG Operating LLC, Artesia, NM

Burton 35 #1 TB (10-21-20)

Sample Id:	**AH-1 0-1'**	Matrix:	Soil	Date Received:	11.05.2020 14:54
Lab Sample Id:	677009-001	Date Collected:	11.04.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	11.05.2020 17:00	% Moisture:	
Seq Number:	3141549			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**0.0225**	0.00200	mg/kg	11.05.2020 19:34	X	1
Toluene	108-88-3	**0.0822**	0.00200	mg/kg	11.05.2020 19:34	X	1
Ethylbenzene	100-41-4	**0.0484**	0.00200	mg/kg	11.05.2020 19:34	XF	1
m,p-Xylenes	179601-23-1	**0.113**	0.00399	mg/kg	11.05.2020 19:34	X	1
o-Xylene	95-47-6	**0.0302**	0.00200	mg/kg	11.05.2020 19:34	XF	1
Total Xylenes	1330-20-7	**0.143**	0.00200	mg/kg	11.05.2020 19:34		1
Total BTEX		**0.296**	0.00200	mg/kg	11.05.2020 19:34		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	14	%	70-130	11.05.2020 19:34	**
1,4-Difluorobenzene	540-36-3	19	%	70-130	11.05.2020 19:34	**

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Certificate of Analytical Results 677009

COG Operating LLC, Artesia, NM

Burton 35 #1 TB (10-21-20)

Sample Id: **AH-1 1.5'** Matrix: Soil Date Received:11.05.2020 14:54

Lab Sample Id: 677009-002 Date Collected: 11.04.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 11.05.2020 16:00 % Moisture:

Seq Number: 3141573 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**10.5**	5.03	mg/kg	11.05.2020 19:10		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 11.05.2020 17:00 % Moisture:

Seq Number: 3141556 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	**5230**	50.0	mg/kg	11.06.2020 03:20		1
Diesel Range Organics	C10C28DRO	**7390**	50.0	mg/kg	11.06.2020 03:20		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**242**	50.0	mg/kg	11.06.2020 03:20		1
Total TPH	PHC635	**25100**	50.0	mg/kg	11.06.2020 03:20		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	87	%	70-130	11.06.2020 03:20	
o-Terphenyl	84-15-1	115	%	70-130	11.06.2020 03:20	

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COG Operating LLC, Artesia, NM

Burton 35 #1 TB (10-21-20)

Sample Id:	**AH-1 1.5'**	Matrix:	Soil	Date Received:	11.05.2020 14:54
Lab Sample Id:	677009-002	Date Collected:	11.04.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	11.05.2020 17:00	% Moisture:	
Seq Number:	3141630			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**5.86**	0.202	mg/kg	11.06.2020 16:14		100
Toluene	108-88-3	**44.2**	0.403	mg/kg	11.06.2020 18:27	D	200
Ethylbenzene	100-41-4	**14.3**	0.202	mg/kg	11.06.2020 16:14		100
m,p-Xylenes	179601-23-1	**77.9**	0.806	mg/kg	11.06.2020 18:27	D	200
o-Xylene	95-47-6	**26.5**	0.202	mg/kg	11.06.2020 16:14		100
Total Xylenes	1330-20-7	**104**	0.202	mg/kg	11.06.2020 18:27		200
Total BTEX		**169**	0.202	mg/kg	11.06.2020 18:27		200

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	187	%	70-130	11.06.2020 16:14	**
1,4-Difluorobenzene	540-36-3	117	%	70-130	11.06.2020 16:14	

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Burton 35 #1 TB (10-21-20)

Sample Id: **AH-1 2.5'** Matrix: Soil Date Received:11.05.2020 14:54

Lab Sample Id: 677009-003 Date Collected: 11.04.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 11.05.2020 16:00 % Moisture:

Seq Number: 3141573 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**8.61**	5.00	mg/kg	11.05.2020 19:17		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 11.05.2020 17:00 % Moisture:

Seq Number: 3141556 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	**4110**	49.9	mg/kg	11.06.2020 03:39		1
Diesel Range Organics	C10C28DRO	**5530**	49.9	mg/kg	11.06.2020 03:39		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**261**	49.9	mg/kg	11.06.2020 03:39		1
Total TPH	PHC635	**9900**	49.9	mg/kg	11.06.2020 03:39		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	78	%	70-130	11.06.2020 03:39	
o-Terphenyl	84-15-1	114	%	70-130	11.06.2020 03:39	

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Burton 35 #1 TB (10-21-20)

Sample Id:	**AH-1 2.5'**	Matrix:	Soil	Date Received:	11.05.2020 14:54
Lab Sample Id:	677009-003	Date Collected:	11.04.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	11.05.2020 17:00	% Moisture:	
Seq Number:	3141630			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**5.14**	0.199	mg/kg	11.06.2020 16:34		100
Toluene	108-88-3	**51.3**	0.398	mg/kg	11.06.2020 18:48	D	200
Ethylbenzene	100-41-4	**15.4**	0.199	mg/kg	11.06.2020 16:34		100
m,p-Xylenes	179601-23-1	**88.0**	0.797	mg/kg	11.06.2020 18:48	D	200
o-Xylene	95-47-6	**24.8**	0.199	mg/kg	11.06.2020 16:34		100
Total Xylenes	1330-20-7	**113**	0.199	mg/kg	11.06.2020 18:48		200
Total BTEX		**185**	0.199	mg/kg	11.06.2020 18:48		200

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	223	%	70-130	11.06.2020 16:34	**
1,4-Difluorobenzene	540-36-3	125	%	70-130	11.06.2020 16:34	

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Burton 35 #1 TB (10-21-20)

Sample Id:	**AH-1 3.5'**	Matrix:	Soil	Date Received:	11.05.2020 14:54
Lab Sample Id:	677009-004	Date Collected:	11.04.2020 00:00		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	11.05.2020 16:00	% Moisture:	
Seq Number:	3141573			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**8.98**	5.00	mg/kg	11.05.2020 19:23		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	11.05.2020 17:00	% Moisture:	
Seq Number:	3141556			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	**5780**	50.0	mg/kg	11.06.2020 03:57		1
Diesel Range Organics	C10C28DRO	**7560**	50.0	mg/kg	11.06.2020 03:57		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**253**	50.0	mg/kg	11.06.2020 03:57		1
Total TPH	PHC635	**26400**	50.0	mg/kg	11.06.2020 03:57		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-130	11.06.2020 03:57	
o-Terphenyl	84-15-1	98	%	70-130	11.06.2020 03:57	

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Burton 35 #1 TB (10-21-20)

Sample Id:	**AH-1 3.5'**	Matrix:	Soil	Date Received:	11.05.2020 14:54
Lab Sample Id:	677009-004	Date Collected:	11.04.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	11.05.2020 17:00	% Moisture:	
Seq Number:	3141630			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**6.44**	0.201	mg/kg	11.06.2020 16:55		100
Toluene	108-88-3	**72.8**	0.402	mg/kg	11.08.2020 05:49	D	200
Ethylbenzene	100-41-4	**11.9**	0.201	mg/kg	11.06.2020 16:55		100
m,p-Xylenes	179601-23-1	**73.4**	0.402	mg/kg	11.06.2020 16:55		100
o-Xylene	95-47-6	**19.8**	0.201	mg/kg	11.06.2020 16:55		100
Total Xylenes	1330-20-7	**93.2**	0.201	mg/kg	11.06.2020 16:55		100
Total BTEX		**184**	0.201	mg/kg	11.08.2020 05:49		200

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	192	%	70-130	11.06.2020 16:55	**
1,4-Difluorobenzene	540-36-3	118	%	70-130	11.06.2020 16:55	

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Burton 35 #1 TB (10-21-20)

Sample Id:	**AH-1 4.5'**	Matrix:	Soil	Date Received:	11.05.2020 14:54
Lab Sample Id:	677009-005	Date Collected:	11.04.2020 00:00		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	11.05.2020 17:00	% Moisture:	
Seq Number:	3141575			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**9.51**	4.99	mg/kg	11.05.2020 20:04		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	11.05.2020 17:00	% Moisture:	
Seq Number:	3141556			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	**7200**	250	mg/kg	11.06.2020 10:33		5
Diesel Range Organics	C10C28DRO	**9770**	250	mg/kg	11.06.2020 10:33		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**705**	250	mg/kg	11.06.2020 10:33		5
Total TPH	PHC635	**17700**	250	mg/kg	11.06.2020 10:33		5

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	114	%	70-130	11.06.2020 10:33	
o-Terphenyl	84-15-1	98	%	70-130	11.06.2020 10:33	

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Burton 35 #1 TB (10-21-20)

Sample Id:	**AH-1 4.5'**	Matrix:	Soil	Date Received:	11.05.2020 14:54
Lab Sample Id:	677009-005	Date Collected:	11.04.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	11.05.2020 17:00	% Moisture:	
Seq Number:	3141630			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**5.64**	0.202	mg/kg	11.06.2020 17:16		100
Toluene	108-88-3	**80.2**	1.01	mg/kg	11.08.2020 11:40	D	500
Ethylbenzene	100-41-4	**14.9**	0.202	mg/kg	11.06.2020 17:16		100
m,p-Xylenes	179601-23-1	**134**	2.02	mg/kg	11.08.2020 11:40	D	500
o-Xylene	95-47-6	**23.1**	0.202	mg/kg	11.06.2020 17:16		100
Total Xylenes	1330-20-7	**157**	0.202	mg/kg	11.08.2020 11:40		500
Total BTEX		**258**	0.202	mg/kg	11.08.2020 11:40		500

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	119	%	70-130	11.06.2020 17:16	
4-Bromofluorobenzene	460-00-4	217	%	70-130	11.06.2020 17:16	**

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Burton 35 #1 TB (10-21-20)

Sample Id:	**AH-1 5.5'**	Matrix:	Soil	Date Received:	11.05.2020 14:54
Lab Sample Id:	677009-006	Date Collected:	11.04.2020 00:00		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	11.05.2020 17:00	% Moisture:	
Seq Number:	3141575			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**8.93**	5.01	mg/kg	11.05.2020 20:20		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	11.05.2020 17:00	% Moisture:	
Seq Number:	3141556			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	**193**	49.9	mg/kg	11.06.2020 04:35		1
Diesel Range Organics	C10C28DRO	**845**	49.9	mg/kg	11.06.2020 04:35		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**73.3**	49.9	mg/kg	11.06.2020 04:35		1
Total TPH	PHC635	**1110**	49.9	mg/kg	11.06.2020 04:35		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	122	%	70-130	11.06.2020 04:35	
o-Terphenyl	84-15-1	84	%	70-130	11.06.2020 04:35	

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Burton 35 #1 TB (10-21-20)

Sample Id:	**AH-1 5.5'**	Matrix:	Soil	Date Received:	11.05.2020 14:54
Lab Sample Id:	677009-006	Date Collected:	11.04.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	11.05.2020 17:00	% Moisture:	
Seq Number:	3141549			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**0.0212**	0.00200	mg/kg	11.05.2020 21:17		1
Toluene	108-88-3	**0.0647**	0.00200	mg/kg	11.05.2020 21:17		1
Ethylbenzene	100-41-4	**0.0171**	0.00200	mg/kg	11.05.2020 21:17		1
m,p-Xylenes	179601-23-1	**0.157**	0.00399	mg/kg	11.05.2020 21:17		1
o-Xylene	95-47-6	**0.0466**	0.00200	mg/kg	11.05.2020 21:17		1
Total Xylenes	1330-20-7	**0.204**	0.00200	mg/kg	11.05.2020 21:17		1
Total BTEX		**0.307**	0.00200	mg/kg	11.05.2020 21:17		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	100	%	70-130	11.05.2020 21:17	
4-Bromofluorobenzene	460-00-4	92	%	70-130	11.05.2020 21:17	

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Burton 35 #1 TB (10-21-20)

Sample Id:	**AH-2 0-1'**	Matrix:	Soil	Date Received:	11.05.2020 14:54
Lab Sample Id:	677009-007	Date Collected:	11.04.2020 00:00		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	11.05.2020 17:00	% Moisture:	
Seq Number:	3141575			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**7.65**	4.98	mg/kg	11.05.2020 20:25		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	11.05.2020 17:00	% Moisture:	
Seq Number:	3141556			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	**5770**	249	mg/kg	11.06.2020 10:53		5
Diesel Range Organics	C10C28DRO	**10600**	249	mg/kg	11.06.2020 10:53		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**798**	249	mg/kg	11.06.2020 10:53		5
Total TPH	PHC635	**17200**	249	mg/kg	11.06.2020 10:53		5

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	127	%	70-130	11.06.2020 10:53	
o-Terphenyl	84-15-1	115	%	70-130	11.06.2020 10:53	

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Burton 35 #1 TB (10-21-20)

Sample Id:	**AH-2 0-1'**	Matrix:	Soil	Date Received:	11.05.2020 14:54
Lab Sample Id:	677009-007	Date Collected:	11.04.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	11.05.2020 17:00	% Moisture:	
Seq Number:	3141630			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**2.31**	0.200	mg/kg	11.06.2020 17:37		100
Toluene	108-88-3	**49.4**	0.401	mg/kg	11.08.2020 06:30	D	200
Ethylbenzene	100-41-4	**17.2**	0.200	mg/kg	11.06.2020 17:37		100
m,p-Xylenes	179601-23-1	**124**	0.802	mg/kg	11.08.2020 06:30	D	200
o-Xylene	95-47-6	**35.2**	0.200	mg/kg	11.06.2020 17:37		100
Total Xylenes	1330-20-7	**159**	0.200	mg/kg	11.08.2020 06:30		200
Total BTEX		**228**	0.200	mg/kg	11.08.2020 06:30		200

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	116	%	70-130	11.06.2020 17:37	
4-Bromofluorobenzene	460-00-4	227	%	70-130	11.06.2020 17:37	**

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Burton 35 #1 TB (10-21-20)

Sample Id:	**AH-2 1.5'**	Matrix:	Soil	Date Received:	11.05.2020 14:54
Lab Sample Id:	677009-008	Date Collected:	11.04.2020 00:00		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	11.05.2020 17:00	% Moisture:	
Seq Number:	3141575			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**8.53**	5.00	mg/kg	11.05.2020 20:30		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	11.05.2020 17:00	% Moisture:	
Seq Number:	3141556			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	**6030**	250	mg/kg	11.06.2020 11:13		5
Diesel Range Organics	C10C28DRO	**9220**	250	mg/kg	11.06.2020 11:13		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**716**	250	mg/kg	11.06.2020 11:13		5
Total TPH	PHC635	**16000**	250	mg/kg	11.06.2020 11:13		5

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-130	11.06.2020 11:13	
o-Terphenyl	84-15-1	104	%	70-130	11.06.2020 11:13	

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Burton 35 #1 TB (10-21-20)

Sample Id:	**AH-2 1.5'**	Matrix:	Soil	Date Received:	11.05.2020 14:54
Lab Sample Id:	677009-008	Date Collected:	11.04.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	11.05.2020 17:00	% Moisture:	
Seq Number:	3141549			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**0.0361**	0.00200	mg/kg	11.05.2020 21:58		1
Toluene	108-88-3	**0.0858**	0.00200	mg/kg	11.05.2020 21:58		1
Ethylbenzene	100-41-4	**0.0198**	0.00200	mg/kg	11.05.2020 21:58		1
m,p-Xylenes	179601-23-1	**0.00989**	0.00401	mg/kg	11.05.2020 21:58		1
o-Xylene	95-47-6	**0.0145**	0.00200	mg/kg	11.05.2020 21:58		1
Total Xylenes	1330-20-7	**0.0244**	0.00200	mg/kg	11.05.2020 21:58		1
Total BTEX		**0.166**	0.00200	mg/kg	11.05.2020 21:58		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	53	%	70-130	11.05.2020 21:58	**
4-Bromofluorobenzene	460-00-4	2	%	70-130	11.05.2020 21:58	**

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Burton 35 #1 TB (10-21-20)

Sample Id: **AH-2 2.5'** Matrix: Soil Date Received:11.05.2020 14:54

Lab Sample Id: 677009-009 Date Collected: 11.04.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 11.05.2020 17:00 % Moisture:

Seq Number: 3141575 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**8.71**	5.00	mg/kg	11.06.2020 10:22		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 11.05.2020 17:00 % Moisture:

Seq Number: 3141556 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	**5450**	49.9	mg/kg	11.06.2020 05:31		1
Diesel Range Organics	C10C28DRO	**7140**	49.9	mg/kg	11.06.2020 05:31		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**265**	49.9	mg/kg	11.06.2020 05:31		1
Total TPH	PHC635	**25200**	49.9	mg/kg	11.06.2020 05:31		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-130	11.06.2020 05:31	
o-Terphenyl	84-15-1	106	%	70-130	11.06.2020 05:31	

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COG Operating LLC, Artesia, NM

Burton 35 #1 TB (10-21-20)

Sample Id:	**AH-2 2.5'**	Matrix:	Soil	Date Received:	11.05.2020 14:54
Lab Sample Id:	677009-009	Date Collected:	11.04.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	11.05.2020 17:00	% Moisture:	
Seq Number:	3141630			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**7.66**	0.398	mg/kg	11.06.2020 17:57		200
Toluene	108-88-3	**55.1**	0.398	mg/kg	11.06.2020 17:57		200
Ethylbenzene	100-41-4	**14.6**	0.398	mg/kg	11.06.2020 17:57		200
m,p-Xylenes	179601-23-1	**83.7**	0.797	mg/kg	11.06.2020 17:57		200
o-Xylene	95-47-6	**23.2**	0.398	mg/kg	11.06.2020 17:57		200
Total Xylenes	1330-20-7	**107**	0.398	mg/kg	11.06.2020 17:57		200
Total BTEX		**184**	0.398	mg/kg	11.06.2020 17:57		200

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	108	%	70-130	11.06.2020 17:57	
4-Bromofluorobenzene	460-00-4	143	%	70-130	11.06.2020 17:57	**

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Burton 35 #1 TB (10-21-20)

Sample Id: **AH-2 3.5** Matrix: Soil Date Received:11.05.2020 14:54

Lab Sample Id: 677009-010 Date Collected: 11.04.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 11.05.2020 17:00 % Moisture:

Seq Number: 3141575 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**19.7**	5.00	mg/kg	11.06.2020 08:42		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 11.05.2020 17:00 % Moisture:

Seq Number: 3141556 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	**3040**	50.0	mg/kg	11.06.2020 05:50		1
Diesel Range Organics	C10C28DRO	**3850**	50.0	mg/kg	11.06.2020 05:50		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**231**	50.0	mg/kg	11.06.2020 05:50		1
Total TPH	PHC635	**7120**	50.0	mg/kg	11.06.2020 05:50		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	117	%	70-130	11.06.2020 05:50	
o-Terphenyl	84-15-1	126	%	70-130	11.06.2020 05:50	

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Burton 35 #1 TB (10-21-20)

Sample Id:	**AH-2 3.5**	Matrix:	Soil	Date Received:	11.05.2020 14:54
Lab Sample Id:	677009-010	Date Collected:	11.04.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	11.05.2020 17:00	% Moisture:	
Seq Number:	3141549			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**3.40**	0.402	mg/kg	11.06.2020 18:18	D	200
Toluene	108-88-3	**31.9**	0.402	mg/kg	11.06.2020 18:18	D	200
Ethylbenzene	100-41-4	**7.61**	0.402	mg/kg	11.06.2020 18:18	D	200
m,p-Xylenes	179601-23-1	**51.7**	0.805	mg/kg	11.06.2020 18:18	D	200
o-Xylene	95-47-6	**14.5**	0.402	mg/kg	11.06.2020 18:18	D	200
Total Xylenes	1330-20-7	**66.2**	0.402	mg/kg	11.06.2020 18:18		200
Total BTEX		**109**	0.402	mg/kg	11.06.2020 18:18		200

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	315	%	70-130	11.05.2020 22:39	**
1,4-Difluorobenzene	540-36-3	136	%	70-130	11.05.2020 22:39	**

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Burton 35 #1 TB (10-21-20)

Sample Id:	**AH-2 4.5'**	Matrix:	Soil	Date Received:	11.05.2020 14:54
Lab Sample Id:	677009-011	Date Collected:	11.04.2020 00:00		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	11.05.2020 17:00	% Moisture:	
Seq Number:	3141575			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**9.21**	5.01	mg/kg	11.06.2020 08:47		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	11.05.2020 17:00	% Moisture:	
Seq Number:	3141556			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	**6530**	50.0	mg/kg	11.06.2020 06:28		1
Diesel Range Organics	C10C28DRO	**7950**	50.0	mg/kg	11.06.2020 06:28		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**287**	50.0	mg/kg	11.06.2020 06:28		1
Total TPH	PHC635	**29400**	50.0	mg/kg	11.06.2020 06:28		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-130	11.06.2020 06:28	
o-Terphenyl	84-15-1	111	%	70-130	11.06.2020 06:28	

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Burton 35 #1 TB (10-21-20)

Sample Id:	**AH-2 4.5'**	Matrix:	Soil	Date Received:	11.05.2020 14:54
Lab Sample Id:	677009-011	Date Collected:	11.04.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	11.05.2020 17:00	% Moisture:	
Seq Number:	3141549			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**13.6**	0.401	mg/kg	11.06.2020 18:39	D	200
Toluene	108-88-3	**0.0980**	0.00200	mg/kg	11.06.2020 00:03		1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.06.2020 00:03	U	1
m,p-Xylenes	179601-23-1	**0.143**	0.00401	mg/kg	11.06.2020 00:03		1
o-Xylene	95-47-6	**0.140**	0.00200	mg/kg	11.06.2020 00:03		1
Total Xylenes	1330-20-7	**0.283**	0.00200	mg/kg	11.06.2020 00:03		1
Total BTEX		**14.0**	0.00200	mg/kg	11.06.2020 18:39		200

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	19	%	70-130	11.06.2020 00:03	**
1,4-Difluorobenzene	540-36-3	135	%	70-130	11.06.2020 00:03	**

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Burton 35 #1 TB (10-21-20)

Sample Id:	**AH-2 5.5'**	Matrix:	Soil	Date Received:	11.05.2020 14:54
Lab Sample Id:	677009-012	Date Collected:	11.04.2020 00:00		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	11.05.2020 17:00	% Moisture:	
Seq Number:	3141575			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**8.32**	5.03	mg/kg	11.06.2020 08:52		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	11.05.2020 17:00	% Moisture:	
Seq Number:	3141556			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	**6080**	49.9	mg/kg	11.06.2020 06:49		1
Diesel Range Organics	C10C28DRO	**7850**	49.9	mg/kg	11.06.2020 06:49		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**289**	49.9	mg/kg	11.06.2020 06:49		1
Total TPH	PHC635	**27800**	49.9	mg/kg	11.06.2020 06:49		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	87	%	70-130	11.06.2020 06:49	
o-Terphenyl	84-15-1	105	%	70-130	11.06.2020 06:49	

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Burton 35 #1 TB (10-21-20)

Sample Id:	**AH-2 5.5'**	Matrix:	Soil	Date Received:	11.05.2020 14:54
Lab Sample Id:	677009-012	Date Collected:	11.04.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	11.05.2020 17:00	% Moisture:	
Seq Number:	3141549			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**9.38**	0.399	mg/kg	11.07.2020 09:41	D	200
Toluene	108-88-3	**0.0952**	0.00200	mg/kg	11.06.2020 00:24		1
Ethylbenzene	100-41-4	**0.163**	0.00200	mg/kg	11.06.2020 00:24		1
m,p-Xylenes	179601-23-1	**0.114**	0.00399	mg/kg	11.06.2020 00:24		1
o-Xylene	95-47-6	**0.109**	0.00200	mg/kg	11.06.2020 00:24		1
Total Xylenes	1330-20-7	**0.223**	0.00200	mg/kg	11.06.2020 00:24		1
Total BTEX		**9.86**	0.00200	mg/kg	11.07.2020 09:41		200

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	16	%	70-130	11.06.2020 00:24	**
1,4-Difluorobenzene	540-36-3	182	%	70-130	11.06.2020 00:24	**

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Burton 35 #1 TB (10-21-20)

Sample Id: **AH-3 0.1'** Matrix: Soil Date Received:11.05.2020 14:54

Lab Sample Id: 677009-013 Date Collected: 11.04.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 11.05.2020 17:00 % Moisture:

Seq Number: 3141575 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**5580**	50.5	mg/kg	11.06.2020 08:58		10

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 11.05.2020 17:00 % Moisture:

Seq Number: 3141556 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	**2990**	50.0	mg/kg	11.06.2020 07:08		1
Diesel Range Organics	C10C28DRO	**4880**	50.0	mg/kg	11.06.2020 07:08		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**291**	50.0	mg/kg	11.06.2020 07:08		1
Total TPH	PHC635	**8160**	50.0	mg/kg	11.06.2020 07:08		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-130	11.06.2020 07:08	
o-Terphenyl	84-15-1	105	%	70-130	11.06.2020 07:08	

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Burton 35 #1 TB (10-21-20)

Sample Id:	**AH-3 0.1'**	Matrix:	Soil	Date Received:	11.05.2020 14:54
Lab Sample Id:	677009-013	Date Collected:	11.04.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	11.05.2020 17:00	% Moisture:	
Seq Number:	3141549			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**0.992**	0.199	mg/kg	11.06.2020 13:47	D	100
Toluene	108-88-3	**21.4**	0.199	mg/kg	11.06.2020 13:47	D	100
Ethylbenzene	100-41-4	**1.00**	0.199	mg/kg	11.06.2020 13:47	D	100
m,p-Xylenes	179601-23-1	**56.2**	0.398	mg/kg	11.06.2020 13:47	D	100
o-Xylene	95-47-6	**0.122**	0.00199	mg/kg	11.06.2020 00:44		1
Total Xylenes	1330-20-7	**56.3**	0.00199	mg/kg	11.06.2020 13:47		100
Total BTEX		**79.7**	0.00199	mg/kg	11.06.2020 13:47		100

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	393	%	70-130	11.06.2020 00:44	**
1,4-Difluorobenzene	540-36-3	0	%	70-130	11.06.2020 00:44	**

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Burton 35 #1 TB (10-21-20)

Sample Id: **AH-3 1.5'** Matrix: Soil Date Received:11.05.2020 14:54

Lab Sample Id: 677009-014 Date Collected: 11.04.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 11.05.2020 17:00 % Moisture:

Seq Number: 3141575 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1800**	24.8	mg/kg	11.06.2020 09:03		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 11.05.2020 17:00 % Moisture:

Seq Number: 3141556 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	**4800**	250	mg/kg	11.06.2020 07:29		5
Diesel Range Organics	C10C28DRO	**7440**	250	mg/kg	11.06.2020 07:29		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**596**	250	mg/kg	11.06.2020 07:29		5
Total TPH	PHC635	**12800**	250	mg/kg	11.06.2020 07:29		5

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	81	%	70-130	11.06.2020 07:29	
o-Terphenyl	84-15-1	109	%	70-130	11.06.2020 07:29	

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Burton 35 #1 TB (10-21-20)

Sample Id:	**AH-3 1.5'**	Matrix:	Soil	Date Received:	11.05.2020 14:54
Lab Sample Id:	677009-014	Date Collected:	11.04.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	11.05.2020 17:00	% Moisture:	
Seq Number:	3141549			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**5.49**	0.200	mg/kg	11.06.2020 14:08	D	100
Toluene	108-88-3	**56.4**	0.400	mg/kg	11.06.2020 18:07	D	200
Ethylbenzene	100-41-4	**2.80**	0.200	mg/kg	11.06.2020 14:08	D	100
m,p-Xylenes	179601-23-1	**0.757**	0.00400	mg/kg	11.06.2020 01:05		1
o-Xylene	95-47-6	**35.2**	0.200	mg/kg	11.06.2020 14:08	D	100
Total Xylenes	1330-20-7	**36.0**	0.00400	mg/kg	11.06.2020 14:08		100
Total BTEX		**101**	0.00400	mg/kg	11.06.2020 18:07		200

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	383	%	70-130	11.06.2020 01:05	**
1,4-Difluorobenzene	540-36-3	171	%	70-130	11.06.2020 01:05	**

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Burton 35 #1 TB (10-21-20)

Sample Id: **AH-3 2.5'** Matrix: Soil Date Received:11.05.2020 14:54

Lab Sample Id: 677009-015 Date Collected: 11.04.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 11.05.2020 17:00 % Moisture:

Seq Number: 3141575 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**65.2**	4.95	mg/kg	11.06.2020 09:08	X	1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 11.05.2020 17:00 % Moisture:

Seq Number: 3141556 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<49.9	49.9	mg/kg	11.06.2020 07:49	U	1
Diesel Range Organics	C10C28DRO	**122**	49.9	mg/kg	11.06.2020 07:49		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.06.2020 07:49	U	1
Total TPH	PHC635	**122**	49.9	mg/kg	11.06.2020 07:49		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-130	11.06.2020 07:49	
o-Terphenyl	84-15-1	101	%	70-130	11.06.2020 07:49	

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Burton 35 #1 TB (10-21-20)

Sample Id:	**AH-3 2.5'**	Matrix:	Soil	Date Received:	11.05.2020 14:54
Lab Sample Id:	677009-015	Date Collected:	11.04.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	11.05.2020 17:00	% Moisture:	
Seq Number:	3141549			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**0.0244**	0.00200	mg/kg	11.06.2020 01:25		1
Toluene	108-88-3	**0.207**	0.00200	mg/kg	11.06.2020 01:25		1
Ethylbenzene	100-41-4	**0.0949**	0.00200	mg/kg	11.06.2020 01:25		1
m,p-Xylenes	179601-23-1	**0.655**	0.00400	mg/kg	11.06.2020 01:25		1
o-Xylene	95-47-6	**0.224**	0.00200	mg/kg	11.06.2020 01:25		1
Total Xylenes	1330-20-7	**0.879**	0.00200	mg/kg	11.06.2020 01:25		1
Total BTEX		**1.21**	0.00200	mg/kg	11.06.2020 01:25		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	116	%	70-130	11.06.2020 01:25	
4-Bromofluorobenzene	460-00-4	179	%	70-130	11.06.2020 01:25	**

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Burton 35 #1 TB (10-21-20)

Sample Id: **AH-3 3.5'** Matrix: Soil Date Received:11.05.2020 14:54

Lab Sample Id: 677009-016 Date Collected: 11.04.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 11.05.2020 17:00 % Moisture:

Seq Number: 3141575 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**15.5**	5.01	mg/kg	11.06.2020 09:24		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 11.05.2020 17:00 % Moisture:

Seq Number: 3141556 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<50.0	50.0	mg/kg	11.06.2020 08:09	U	1
Diesel Range Organics	C10C28DRO	<50.0	50.0	mg/kg	11.06.2020 08:09	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.06.2020 08:09	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	11.06.2020 08:09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	86	%	70-130	11.06.2020 08:09	
o-Terphenyl	84-15-1	96	%	70-130	11.06.2020 08:09	

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Burton 35 #1 TB (10-21-20)

Sample Id:	**AH-3 3.5'**	Matrix:	Soil	Date Received:	11.05.2020 14:54
Lab Sample Id:	677009-016	Date Collected:	11.04.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	11.05.2020 17:00	% Moisture:	
Seq Number:	3141549			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**0.0106**	0.00199	mg/kg	11.06.2020 01:46		1
Toluene	108-88-3	**0.0293**	0.00199	mg/kg	11.06.2020 01:46		1
Ethylbenzene	100-41-4	**0.0182**	0.00199	mg/kg	11.06.2020 01:46		1
m,p-Xylenes	179601-23-1	**0.0367**	0.00398	mg/kg	11.06.2020 01:46		1
o-Xylene	95-47-6	**0.0297**	0.00199	mg/kg	11.06.2020 01:46		1
Total Xylenes	1330-20-7	**0.0664**	0.00199	mg/kg	11.06.2020 01:46		1
Total BTEX		**0.125**	0.00199	mg/kg	11.06.2020 01:46		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	118	%	70-130	11.06.2020 01:46	
4-Bromofluorobenzene	460-00-4	108	%	70-130	11.06.2020 01:46	

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COG Operating LLC, Artesia, NM

Burton 35 #1 TB (10-21-20)

Sample Id:	**AH-3 3.5'**	Matrix:	Soil	Date Received:	11.05.2020 14:54
Lab Sample Id:	677009-017	Date Collected:	11.04.2020 00:00		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	11.05.2020 17:00	% Moisture:	
Seq Number:	3141575			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**16.6**	5.02	mg/kg	11.06.2020 09:29		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	11.05.2020 17:00	% Moisture:	
Seq Number:	3141556			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<50.0	50.0	mg/kg	11.06.2020 08:30	U	1
Diesel Range Organics	C10C28DRO	<50.0	50.0	mg/kg	11.06.2020 08:30	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.06.2020 08:30	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	11.06.2020 08:30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-130	11.06.2020 08:30	
o-Terphenyl	84-15-1	106	%	70-130	11.06.2020 08:30	

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COG Operating LLC, Artesia, NM

Burton 35 #1 TB (10-21-20)

Sample Id:	**AH-3 3.5'**	Matrix:	Soil	Date Received:	11.05.2020 14:54
Lab Sample Id:	677009-017	Date Collected:	11.04.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	11.05.2020 17:00	% Moisture:	
Seq Number:	3141549			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**0.00710**	0.00200	mg/kg	11.06.2020 02:07		1
Toluene	108-88-3	**0.0282**	0.00200	mg/kg	11.06.2020 02:07		1
Ethylbenzene	100-41-4	**0.0121**	0.00200	mg/kg	11.06.2020 02:07		1
m,p-Xylenes	179601-23-1	**0.0323**	0.00399	mg/kg	11.06.2020 02:07		1
o-Xylene	95-47-6	**0.00915**	0.00200	mg/kg	11.06.2020 02:07		1
Total Xylenes	1330-20-7	**0.0415**	0.00200	mg/kg	11.06.2020 02:07		1
Total BTEX		**0.0889**	0.00200	mg/kg	11.06.2020 02:07		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	104	%	70-130	11.06.2020 02:07	
1,4-Difluorobenzene	540-36-3	106	%	70-130	11.06.2020 02:07	

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Burton 35 #1 TB (10-21-20)

Sample Id:	**AH-4 0-1'**	Matrix:	Soil	Date Received:	11.05.2020 14:54
Lab Sample Id:	677009-018	Date Collected:	11.04.2020 00:00		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	11.05.2020 17:00	% Moisture:	
Seq Number:	3141575			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**65.7**	5.05	mg/kg	11.06.2020 09:45		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	11.05.2020 17:00	% Moisture:	
Seq Number:	3141556			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	**4320**	250	mg/kg	11.06.2020 08:50		5
Diesel Range Organics	C10C28DRO	**7680**	250	mg/kg	11.06.2020 08:50		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**621**	250	mg/kg	11.06.2020 08:50		5
Total TPH	PHC635	**12600**	250	mg/kg	11.06.2020 08:50		5

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	84	%	70-130	11.06.2020 08:50	
o-Terphenyl	84-15-1	117	%	70-130	11.06.2020 08:50	

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COG Operating LLC, Artesia, NM

Burton 35 #1 TB (10-21-20)

Sample Id:	**AH-4 0-1'**	Matrix:	Soil	Date Received:	11.05.2020 14:54
Lab Sample Id:	677009-018	Date Collected:	11.04.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	11.05.2020 17:00	% Moisture:	
Seq Number:	3141549			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**3.64**	0.401	mg/kg	11.06.2020 17:05	D	200
Toluene	108-88-3	**43.0**	0.401	mg/kg	11.06.2020 17:05	D	200
Ethylbenzene	100-41-4	**1.85**	0.401	mg/kg	11.06.2020 17:05	D	200
m,p-Xylenes	179601-23-1	**83.3**	0.802	mg/kg	11.06.2020 17:05	D	200
o-Xylene	95-47-6	**0.114**	0.00200	mg/kg	11.06.2020 02:27		1
Total Xylenes	1330-20-7	**83.4**	0.00200	mg/kg	11.06.2020 17:05		200
Total BTEX		**132**	0.00200	mg/kg	11.06.2020 17:05		200

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	373	%	70-130	11.06.2020 02:27	**
1,4-Difluorobenzene	540-36-3	427	%	70-130	11.06.2020 02:27	**

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Burton 35 #1 TB (10-21-20)

Sample Id: **AH-4 1.5'** Matrix: Soil Date Received:11.05.2020 14:54

Lab Sample Id: 677009-019 Date Collected: 11.04.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 11.05.2020 17:00 % Moisture:

Seq Number: 3141575 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**12.3**	5.00	mg/kg	11.06.2020 09:50		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 11.05.2020 17:00 % Moisture:

Seq Number: 3141556 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	**4630**	50.0	mg/kg	11.06.2020 09:11		1
Diesel Range Organics	C10C28DRO	**6410**	50.0	mg/kg	11.06.2020 09:11		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**304**	50.0	mg/kg	11.06.2020 09:11		1
Total TPH	PHC635	**22100**	50.0	mg/kg	11.06.2020 09:11		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	113	%	70-130	11.06.2020 09:11	
o-Terphenyl	84-15-1	91	%	70-130	11.06.2020 09:11	

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Burton 35 #1 TB (10-21-20)

Sample Id:	**AH-4 1.5'**	Matrix:	Soil	Date Received:	11.05.2020 14:54
Lab Sample Id:	677009-019	Date Collected:	11.04.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	11.05.2020 17:00	% Moisture:	
Seq Number:	3141549			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**6.59**	0.400	mg/kg	11.06.2020 17:25	D	200
Toluene	108-88-3	**54.6**	0.400	mg/kg	11.06.2020 17:25	D	200
Ethylbenzene	100-41-4	**0.369**	0.00200	mg/kg	11.06.2020 02:48		1
m,p-Xylenes	179601-23-1	**0.169**	0.00400	mg/kg	11.06.2020 02:48		1
o-Xylene	95-47-6	**0.251**	0.00200	mg/kg	11.06.2020 02:48		1
Total Xylenes	1330-20-7	**0.420**	0.00200	mg/kg	11.06.2020 02:48		1
Total BTEX		**62.0**	0.00200	mg/kg	11.06.2020 17:25		200

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	277	%	70-130	11.06.2020 02:48	**
4-Bromofluorobenzene	460-00-4	0	%	70-130	11.06.2020 02:48	**

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Burton 35 #1 TB (10-21-20)

Sample Id: **AH-4 2.5'** Matrix: Soil Date Received:11.05.2020 14:54

Lab Sample Id: 677009-020 Date Collected: 11.04.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 11.05.2020 17:00 % Moisture:

Seq Number: 3141575 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**10.4**	4.96	mg/kg	11.06.2020 09:56		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 11.05.2020 17:00 % Moisture:

Seq Number: 3141556 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	**62.1**	49.9	mg/kg	11.06.2020 09:32		1
Diesel Range Organics	C10C28DRO	**212**	49.9	mg/kg	11.06.2020 09:32		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.06.2020 09:32	U	1
Total TPH	PHC635	**274**	49.9	mg/kg	11.06.2020 09:32		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-130	11.06.2020 09:32	
o-Terphenyl	84-15-1	108	%	70-130	11.06.2020 09:32	

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Burton 35 #1 TB (10-21-20)

Sample Id:	**AH-4 2.5'**	Matrix:	Soil	Date Received:	11.05.2020 14:54
Lab Sample Id:	677009-020	Date Collected:	11.04.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	11.05.2020 17:00	% Moisture:	
Seq Number:	3141549			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**0.0128**	0.00200	mg/kg	11.06.2020 03:08		1
Toluene	108-88-3	**0.0129**	0.00200	mg/kg	11.06.2020 03:08		1
Ethylbenzene	100-41-4	**0.0929**	0.00200	mg/kg	11.06.2020 03:08		1
m,p-Xylenes	179601-23-1	**0.0548**	0.00399	mg/kg	11.06.2020 03:08		1
o-Xylene	95-47-6	**0.0109**	0.00200	mg/kg	11.06.2020 03:08		1
Total Xylenes	1330-20-7	**0.0657**	0.00200	mg/kg	11.06.2020 03:08		1
Total BTEX		**0.184**	0.00200	mg/kg	11.06.2020 03:08		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	24	%	70-130	11.06.2020 03:08	**
1,4-Difluorobenzene	540-36-3	58	%	70-130	11.06.2020 03:08	**

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Burton 35 #1 TB (10-21-20)

Sample Id: **AH-4 3.5'** Matrix: Soil Date Received:11.05.2020 14:54

Lab Sample Id: 677009-021 Date Collected: 11.04.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 11.05.2020 17:00 % Moisture:

Seq Number: 3141575 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**14.7**	4.97	mg/kg	11.06.2020 10:01		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 11.05.2020 16:00 % Moisture:

Seq Number: 3141555 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<49.9	49.9	mg/kg	11.05.2020 20:56	U	1
Diesel Range Organics	C10C28DRO	<49.9	49.9	mg/kg	11.05.2020 20:56	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.05.2020 20:56	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	11.05.2020 20:56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-130	11.05.2020 20:56	
o-Terphenyl	84-15-1	111	%	70-130	11.05.2020 20:56	

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Burton 35 #1 TB (10-21-20)

Sample Id:	**AH-4 3.5'**	Matrix:	Soil	Date Received:	11.05.2020 14:54
Lab Sample Id:	677009-021	Date Collected:	11.04.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	11.05.2020 17:00	% Moisture:	
Seq Number:	3141630			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**0.00358**	0.00198	mg/kg	11.06.2020 11:24		1
Toluene	108-88-3	**0.00909**	0.00198	mg/kg	11.06.2020 11:24		1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	11.06.2020 11:24	U	1
m,p-Xylenes	179601-23-1	**0.00491**	0.00397	mg/kg	11.06.2020 11:24		1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	11.06.2020 11:24	U	1
Total Xylenes	1330-20-7	**0.00491**	0.00198	mg/kg	11.06.2020 11:24		1
Total BTEX		**0.0176**	0.00198	mg/kg	11.06.2020 11:24		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	102	%	70-130	11.06.2020 11:24	
4-Bromofluorobenzene	460-00-4	88	%	70-130	11.06.2020 11:24	

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Burton 35 #1 TB (10-21-20)

Sample Id: **AH-4 4.5'** Matrix: Soil Date Received:11.05.2020 14:54

Lab Sample Id: 677009-022 Date Collected: 11.04.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 11.05.2020 17:00 % Moisture:

Seq Number: 3141575 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**17.8**	4.99	mg/kg	11.06.2020 10:06		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 11.05.2020 16:00 % Moisture:

Seq Number: 3141555 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<50.0	50.0	mg/kg	11.05.2020 21:15	U	1
Diesel Range Organics	C10C28DRO	<50.0	50.0	mg/kg	11.05.2020 21:15	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.05.2020 21:15	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	11.05.2020 21:15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	95	%	70-130	11.05.2020 21:15	
o-Terphenyl	84-15-1	109	%	70-130	11.05.2020 21:15	

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Burton 35 #1 TB (10-21-20)

Sample Id:	**AH-4 4.5'**	Matrix:	Soil	Date Received:	11.05.2020 14:54
Lab Sample Id:	677009-022	Date Collected:	11.04.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	11.05.2020 17:00	% Moisture:	
Seq Number:	3141630			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**0.00203**	0.00198	mg/kg	11.06.2020 11:45		1
Toluene	108-88-3	**0.00743**	0.00198	mg/kg	11.06.2020 11:45		1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	11.06.2020 11:45	U	1
m,p-Xylenes	179601-23-1	**0.00478**	0.00396	mg/kg	11.06.2020 11:45		1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	11.06.2020 11:45	U	1
Total Xylenes	1330-20-7	**0.00478**	0.00198	mg/kg	11.06.2020 11:45		1
Total BTEX		**0.0142**	0.00198	mg/kg	11.06.2020 11:45		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	110	%	70-130	11.06.2020 11:45	
4-Bromofluorobenzene	460-00-4	94	%	70-130	11.06.2020 11:45	

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Burton 35 #1 TB (10-21-20)

Sample Id: **North** Matrix: Soil Date Received:11.05.2020 14:54

Lab Sample Id: 677009-023 Date Collected: 11.04.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 11.05.2020 17:00 % Moisture:

Seq Number: 3141575 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**13.2**	4.98	mg/kg	11.06.2020 10:11		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 11.05.2020 16:00 % Moisture:

Seq Number: 3141555 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<50.0	50.0	mg/kg	11.05.2020 21:34	U	1
Diesel Range Organics	C10C28DRO	<50.0	50.0	mg/kg	11.05.2020 21:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.05.2020 21:34	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	11.05.2020 21:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-130	11.05.2020 21:34	
o-Terphenyl	84-15-1	111	%	70-130	11.05.2020 21:34	

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Burton 35 #1 TB (10-21-20)

Sample Id:	**North**	Matrix:	Soil	Date Received:	11.05.2020 14:54
Lab Sample Id:	677009-023	Date Collected:	11.04.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	11.05.2020 17:00	% Moisture:	
Seq Number:	3141630			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**0.00252**	0.00199	mg/kg	11.06.2020 12:05		1
Toluene	108-88-3	**0.00619**	0.00199	mg/kg	11.06.2020 12:05		1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	11.06.2020 12:05	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	11.06.2020 12:05	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	11.06.2020 12:05	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	11.06.2020 12:05	U	1
Total BTEX		**0.00871**	0.00199	mg/kg	11.06.2020 12:05		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	90	%	70-130	11.06.2020 12:05	
1,4-Difluorobenzene	540-36-3	103	%	70-130	11.06.2020 12:05	

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Certificate of Analytical Results 677009

COG Operating LLC, Artesia, NM

Burton 35 #1 TB (10-21-20)

Sample Id: **South** Matrix: Soil Date Received:11.05.2020 14:54

Lab Sample Id: 677009-024 Date Collected: 11.04.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 11.05.2020 17:00 % Moisture:

Seq Number: 3141575 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**12.4**	4.97	mg/kg	11.06.2020 10:17		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 11.05.2020 16:00 % Moisture:

Seq Number: 3141555 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<49.9	49.9	mg/kg	11.05.2020 22:13	U	1
Diesel Range Organics	C10C28DRO	<49.9	49.9	mg/kg	11.05.2020 22:13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.05.2020 22:13	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	11.05.2020 22:13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	87	%	70-130	11.05.2020 22:13	
o-Terphenyl	84-15-1	95	%	70-130	11.05.2020 22:13	

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Certificate of Analytical Results 677009

COG Operating LLC, Artesia, NM

Burton 35 #1 TB (10-21-20)

Sample Id:	**South**	Matrix:	Soil	Date Received:	11.05.2020 14:54
Lab Sample Id:	677009-024	Date Collected:	11.04.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	11.05.2020 17:00	% Moisture:	
Seq Number:	3141630			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**0.00360**	0.00200	mg/kg	11.06.2020 12:26		1
Toluene	108-88-3	**0.00704**	0.00200	mg/kg	11.06.2020 12:26		1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.06.2020 12:26	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	11.06.2020 12:26	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.06.2020 12:26	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.06.2020 12:26	U	1
Total BTEX		**0.0106**	0.00200	mg/kg	11.06.2020 12:26		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	94	%	70-130	11.06.2020 12:26	
1,4-Difluorobenzene	540-36-3	110	%	70-130	11.06.2020 12:26	

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Certificate of Analytical Results 677009

COG Operating LLC, Artesia, NM

Burton 35 #1 TB (10-21-20)

Sample Id: **East** Matrix: Soil Date Received:11.05.2020 14:54

Lab Sample Id: 677009-025 Date Collected: 11.04.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 11.05.2020 18:50 % Moisture:

Seq Number: 3141576 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**13.0**	4.96	mg/kg	11.06.2020 11:08		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 11.05.2020 16:00 % Moisture:

Seq Number: 3141555 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<49.8	49.8	mg/kg	11.05.2020 22:32	U	1
Diesel Range Organics	C10C28DRO	<49.8	49.8	mg/kg	11.05.2020 22:32	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	11.05.2020 22:32	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	11.05.2020 22:32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	85	%	70-130	11.05.2020 22:32	
o-Terphenyl	84-15-1	94	%	70-130	11.05.2020 22:32	

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Certificate of Analytical Results 677009

COG Operating LLC, Artesia, NM

Burton 35 #1 TB (10-21-20)

Sample Id:	**East**	Matrix:	Soil	Date Received:	11.05.2020 14:54
Lab Sample Id:	677009-025	Date Collected:	11.04.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	11.05.2020 17:00	% Moisture:	
Seq Number:	3141630			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**0.00227**	0.00200	mg/kg	11.06.2020 12:47		1
Toluene	108-88-3	**0.00457**	0.00200	mg/kg	11.06.2020 12:47		1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.06.2020 12:47	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	11.06.2020 12:47	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.06.2020 12:47	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.06.2020 12:47	U	1
Total BTEX		**0.00684**	0.00200	mg/kg	11.06.2020 12:47		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.06.2020 12:47	
4-Bromofluorobenzene	460-00-4	95	%	70-130	11.06.2020 12:47	

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Certificate of Analytical Results 677009

COG Operating LLC, Artesia, NM

Burton 35 #1 TB (10-21-20)

Sample Id: **West** Matrix: Soil Date Received:11.05.2020 14:54

Lab Sample Id: 677009-026 Date Collected: 11.04.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 11.05.2020 18:50 % Moisture:

Seq Number: 3141576 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**13.9**	4.97	mg/kg	11.06.2020 11:23		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 11.05.2020 16:00 % Moisture:

Seq Number: 3141555 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<50.0	50.0	mg/kg	11.05.2020 22:51	U	1
Diesel Range Organics	C10C28DRO	<50.0	50.0	mg/kg	11.05.2020 22:51	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.05.2020 22:51	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	11.05.2020 22:51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	83	%	70-130	11.05.2020 22:51	
o-Terphenyl	84-15-1	91	%	70-130	11.05.2020 22:51	

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Certificate of Analytical Results 677009

COG Operating LLC, Artesia, NM

Burton 35 #1 TB (10-21-20)

Sample Id:	**West**	Matrix:	Soil	Date Received:	11.05.2020 14:54
Lab Sample Id:	677009-026	Date Collected:	11.04.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	11.05.2020 17:00	% Moisture:	
Seq Number:	3141630			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**0.0311**	0.00202	mg/kg	11.06.2020 13:07		1
Toluene	108-88-3	**0.0259**	0.00202	mg/kg	11.06.2020 13:07		1
Ethylbenzene	100-41-4	**0.00343**	0.00202	mg/kg	11.06.2020 13:07		1
m,p-Xylenes	179601-23-1	**0.0260**	0.00404	mg/kg	11.06.2020 13:07		1
o-Xylene	95-47-6	**0.00807**	0.00202	mg/kg	11.06.2020 13:07		1
Total Xylenes	1330-20-7	**0.0341**	0.00202	mg/kg	11.06.2020 13:07		1
Total BTEX		**0.0945**	0.00202	mg/kg	11.06.2020 13:07		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	114	%	70-130	11.06.2020 13:07	
4-Bromofluorobenzene	460-00-4	96	%	70-130	11.06.2020 13:07	

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Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

QC Summary 677009

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Burton 35 #1 TB (10-21-20)

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3141573 — Matrix: Solid — Date Prep: 11.05.2020
MB Sample Id: 7714587-1-BLK — LCS Sample Id: 7714587-1-BKS — LCSD Sample Id: 7714587-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	261	104	260	104	90-110	0	20	mg/kg	11.05.2020 16:27	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3141575 — Matrix: Solid — Date Prep: 11.05.2020
MB Sample Id: 7714599-1-BLK — LCS Sample Id: 7714599-1-BKS — LCSD Sample Id: 7714599-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	262	105	264	106	90-110	1	20	mg/kg	11.05.2020 19:53	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3141576 — Matrix: Solid — Date Prep: 11.05.2020
MB Sample Id: 7714626-1-BLK — LCS Sample Id: 7714626-1-BKS — LCSD Sample Id: 7714626-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	262	105	261	104	90-110	0	20	mg/kg	11.06.2020 10:57	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3141573 — Matrix: Soil — Date Prep: 11.05.2020
Parent Sample Id: 676966-001 — MS Sample Id: 676966-001 S — MSD Sample Id: 676966-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	305	252	559	101	563	102	90-110	1	20	mg/kg	11.05.2020 16:46	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3141573 — Matrix: Soil — Date Prep: 11.05.2020
Parent Sample Id: 676976-007 — MS Sample Id: 676976-007 S — MSD Sample Id: 676976-007 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	574	250	803	92	811	95	90-110	1	20	mg/kg	11.05.2020 18:14	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3141575 — Matrix: Soil — Date Prep: 11.05.2020
Parent Sample Id: 677009-005 — MS Sample Id: 677009-005 S — MSD Sample Id: 677009-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	9.51	250	274	106	272	105	90-110	1	20	mg/kg	11.05.2020 20:09	

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

QC Summary 677009

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COG Operating LLC

Burton 35 #1 TB (10-21-20)

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3141575 — Matrix: Soil — Date Prep: 11.05.2020
Parent Sample Id: 677009-015 — MS Sample Id: 677009-015 S — MSD Sample Id: 677009-015 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	65.2	248	287	89	342	112	90-110	17	20	mg/kg	11.06.2020 09:13	X

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3141576 — Matrix: Soil — Date Prep: 11.05.2020
Parent Sample Id: 677006-002 — MS Sample Id: 677006-002 S — MSD Sample Id: 677006-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	3300	1250	4700	112	4630	106	90-110	2	20	mg/kg	11.06.2020 12:27	X

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3141576 — Matrix: Soil — Date Prep: 11.05.2020
Parent Sample Id: 677009-025 — MS Sample Id: 677009-025 S — MSD Sample Id: 677009-025 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	13.0	248	275	106	275	106	90-110	0	20	mg/kg	11.06.2020 11:13	

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3141555 — Matrix: Solid — Date Prep: 11.05.2020
MB Sample Id: 7714624-1-BLK — LCS Sample Id: 7714624-1-BKS — LCSD Sample Id: 7714624-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons	<50.0	1000	1040	104	1010	101	70-130	3	20	mg/kg	11.05.2020 17:24	
Diesel Range Organics	<50.0	1000	1110	111	1140	114	70-130	3	20	mg/kg	11.05.2020 17:24	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	103		128		122		70-130	%	11.05.2020 17:24
o-Terphenyl	121		127		127		70-130	%	11.05.2020 17:24

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3141556 — Matrix: Solid — Date Prep: 11.05.2020
MB Sample Id: 7714625-1-BLK — LCS Sample Id: 7714625-1-BKS — LCSD Sample Id: 7714625-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons	<50.0	1000	1090	109	1090	109	70-130	0	20	mg/kg	11.06.2020 01:45	
Diesel Range Organics	<50.0	1000	1140	114	1120	112	70-130	2	20	mg/kg	11.06.2020 01:45	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	109		129		129		70-130	%	11.06.2020 01:45
o-Terphenyl	128		129		128		70-130	%	11.06.2020 01:45

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

QC Summary 677009

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COG Operating LLC

Burton 35 #1 TB (10-21-20)

Analytical Method: **TPH By SW8015 Mod** Prep Method: SW8015P
Seq Number: 3141555 Matrix: Solid Date Prep: 11.05.2020
MB Sample Id: 7714624-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	11.05.2020 17:04	

Analytical Method: **TPH By SW8015 Mod** Prep Method: SW8015P
Seq Number: 3141556 Matrix: Solid Date Prep: 11.05.2020
MB Sample Id: 7714625-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	11.06.2020 01:26	

Analytical Method: **TPH By SW8015 Mod** Prep Method: SW8015P
Seq Number: 3141555 Matrix: Soil Date Prep: 11.05.2020
Parent Sample Id: 676976-001 MS Sample Id: 676976-001 S MSD Sample Id: 676976-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons	<49.9	997	941	94	957	96	70-130	2	20	mg/kg	11.05.2020 18:22	
Diesel Range Organics	<49.9	997	984	99	1010	101	70-130	3	20	mg/kg	11.05.2020 18:22	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	118		109		70-130	%	11.05.2020 18:22
o-Terphenyl	122		120		70-130	%	11.05.2020 18:22

Analytical Method: **TPH By SW8015 Mod** Prep Method: SW8015P
Seq Number: 3141556 Matrix: Soil Date Prep: 11.05.2020
Parent Sample Id: 677009-001 MS Sample Id: 677009-001 S MSD Sample Id: 677009-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons	4370	997	5070	70	5160	79	70-130	2	20	mg/kg	11.06.2020 11:54	
Diesel Range Organics	8020	997	8250	23	8300	28	70-130	1	20	mg/kg	11.06.2020 11:54	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	80		82		70-130	%	11.06.2020 11:54
o-Terphenyl	82		120		70-130	%	11.06.2020 11:54

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

QC Summary 677009

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COG Operating LLC

Burton 35 #1 TB (10-21-20)

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3141549 — Matrix: Solid — Date Prep: 11.05.2020
MB Sample Id: 7714646-1-BLK — LCS Sample Id: 7714646-1-BKS — LCSD Sample Id: 7714646-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0805	81	0.0847	85	70-130	5	35	mg/kg	11.05.2020 17:12	
Toluene	<0.00200	0.100	0.0927	93	0.0898	90	70-130	3	35	mg/kg	11.05.2020 17:12	
Ethylbenzene	<0.00200	0.100	0.101	101	0.0978	98	70-130	3	35	mg/kg	11.05.2020 17:12	
m,p-Xylenes	<0.00400	0.200	0.202	101	0.196	98	70-130	3	35	mg/kg	11.05.2020 17:12	
o-Xylene	<0.00200	0.100	0.0999	100	0.0972	97	70-130	3	35	mg/kg	11.05.2020 17:12	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		96		99		70-130	%	11.05.2020 17:12
4-Bromofluorobenzene	94		103		103		70-130	%	11.05.2020 17:12

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3141630 — Matrix: Solid — Date Prep: 11.05.2020
MB Sample Id: 7714707-1-BLK — LCS Sample Id: 7714707-1-BKS — LCSD Sample Id: 7714707-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0832	83	0.0908	91	70-130	9	35	mg/kg	11.06.2020 09:01	
Toluene	<0.00200	0.100	0.0880	88	0.0950	95	70-130	8	35	mg/kg	11.06.2020 09:01	
Ethylbenzene	<0.00200	0.100	0.0933	93	0.102	102	70-130	9	35	mg/kg	11.06.2020 09:01	
m,p-Xylenes	<0.00400	0.200	0.188	94	0.203	102	70-130	8	35	mg/kg	11.06.2020 09:01	
o-Xylene	<0.00200	0.100	0.0912	91	0.0994	99	70-130	9	35	mg/kg	11.06.2020 09:01	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	105		101		98		70-130	%	11.06.2020 09:01
4-Bromofluorobenzene	93		97		102		70-130	%	11.06.2020 09:01

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3141549 — Matrix: Soil — Date Prep: 11.05.2020
Parent Sample Id: 677009-001 — MS Sample Id: 677009-001 S — MSD Sample Id: 677009-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	0.0225	0.0996	0.0170	0	0.0205	0	70-130	19	35	mg/kg	11.05.2020 17:53	X
Toluene	0.0822	0.0996	0.0890	7	0.0831	1	70-130	7	35	mg/kg	11.05.2020 17:53	X
Ethylbenzene	0.0484	0.0996	0.0742	26	0.0451	0	70-130	49	35	mg/kg	11.05.2020 17:53	XF
m,p-Xylenes	0.113	0.199	0.0922	0	0.101	0	70-130	9	35	mg/kg	11.05.2020 17:53	X
o-Xylene	0.0302	0.0996	0.0382	8	0.0228	0	70-130	50	35	mg/kg	11.05.2020 17:53	XF

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	24	**	51	**	70-130	%	11.05.2020 17:53
4-Bromofluorobenzene	9	**	24	**	70-130	%	11.05.2020 17:53

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

eurofins | Environment Testing Xenco

QC Summary 677009

COG Operating LLC

Burton 35 #1 TB (10-21-20)

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A

Seq Number: 3141630 Matrix: Soil Date Prep: 11.05.2020

Parent Sample Id: 677009-021 MS Sample Id: 677009-021 S MSD Sample Id: 677009-021 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	0.00358	0.0998	0.0898	86	0.0880	85	70-130	2	35	mg/kg	11.06.2020 09:42	
Toluene	0.00909	0.0998	0.0947	86	0.0975	89	70-130	3	35	mg/kg	11.06.2020 09:42	
Ethylbenzene	<0.00200	0.0998	0.0873	87	0.0935	94	70-130	7	35	mg/kg	11.06.2020 09:42	
m,p-Xylenes	0.00491	0.200	0.176	86	0.190	93	70-130	8	35	mg/kg	11.06.2020 09:42	
o-Xylene	<0.00200	0.0998	0.0859	86	0.0932	94	70-130	8	35	mg/kg	11.06.2020 09:42	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	110		105		70-130	%	11.06.2020 09:42
4-Bromofluorobenzene	101		107		70-130	%	11.06.2020 09:42

MS/MSD Percent Recovery [D] = 100*(C-A) / B

Relative Percent Difference RPD = 200* | (C-E) / (C+E) |

LCS/LCSD Recovery [D] = 100 * (C) / [B]

Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample

A = Parent Result

C = MS/LCS Result

E = MSD/LCSD Result

MS = Matrix Spike

B = Spike Added

D = MSD/LCSD % Rec

Analysis Request of Chain of Custody Record

CONCHO

One Concho Center/600/Illinois Avenue/Midland, Texas
Tel (432) 683-7443

677009

Client Name:	COG	**Site Manager:**	Ike Tavarez itavarez@concho.com Robert Grubbs Jr rgrubbs@concho.com
Project Name:	Burton 35 # 1 TB (10-21-20)		
Project Location: (county, state)	Lea County, NM	**Project #:**	
Invoice to:	COG		
Receiving Laboratory:	Xenco	**Sampler Signature:**	Robert Grubbs Jr
Comments:			

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2020 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)	TPH TX1005 (Ext to C35)	BTEX 8021B	TPH 8015M (GRO - DRO - MRO)	Chloride	Hold
	AH-1 0-1'	11/4/2020			X				X		1			X	X	X	
	AH-1 1.5'	11/4/2020			X				X		1			X	X	X	
	AH-1 2.5'	11/4/2020			X				X		1			X	X	X	
	AH-1 3.5'	11/4/2020			X				X		1			X	X	X	
	AH-1 4.5'	11/4/2020			X				X		1			X	X	X	
	AH-1 5.5'	11/4/2020			X				X		1			X	X	X	
	AH-2 0-1'	11/4/2020			X				X		1			X	X	X	
	AH-2 1.5'	11/4/2020			X				X		1			X	X	X	
	AH-2 2.5'	11/4/2020			X				X		1			X	X	X	
	AH-2 3.5'	11/4/2020			X				X		1			X	X	X	

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Robert Grubbs Jr	11/5/2020	1453	[signature]	11/5	1454
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY

Sample Temperature 4.3/4.8

REMARKS:

X	RUSH: Same Day **24 hr** 48 hr 72 hr
	Rush Charges Authorized
	Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

CONCHO

One Concho Center/600/Illinois
Avenue/Midland, Texas
Tel (432) 683-7443

677009

Client Name:	COG	Site Manager:	Ike Tavarez itavarez@concho.com Robert Grubbs Jr rgrubbs@concho.com
Project Name:	Burton 35 # 1 TB (10-21-20)		
Project Location: (county, state)	Lea County, NM	Project #:	
Invoice to:	COG		
Receiving Laboratory:	Xenco	Sampler Signature:	Robert Grubbs Jr
Comments:			

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2020 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)	TPH TX1005 (Ext to C35)	BTEX 8021B	TPH 8015M (GRO - DRO - MRO)	Chloride	Hold
	AH-2 4.5'	11/4/2020			X				X			1			X	X	X	
	AH-2 5.5'	11/4/2020			X				X			1			X	X	X	
	AH-3 0-1'	11/4/2020			X				X			1			X	X	X	
	AH-3 1.5'	11/4/2020			X				X			1			X	X	X	
	AH-3 2.5'	11/4/2020			X				X			1			X	X	X	
	AH-3 3.5'	11/4/2020			X				X			1			X	X	X	
	AH-3 4.5'	11/4/2020			X				X			1			X	X	X	
	AH-4 0-1'	11/4/2020			X				X			1			X	X	X	
	AH-4 1.5'	11/4/2020			X				X			1			X	X	X	
	AH-4 2.5'	11/4/2020			X				X			1			X	X	X	

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Robert Grubbs Jr	11/5/2020	1453	[signature]	11/5	1453
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY

Sample Temperature

REMARKS:

X	RUSH: Same Day 24 hr 48 hr 72 hr
	Rush Charges Authorized
	Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

Analysis Request of Chain of Custody Record

CONCHO

One Concho Center/600/Illinois
Avenue/Midland, Texas
Tel (432) 683-7443

677009

Client Name:	COG	Site Manager:	Ike Tavarez itavarez@concho.com Robert Grubbs Jr rgrubbs@concho.com
Project Name:	Burton 35 # 1 TB (10-21-20)		
Project Location: (county, state)	Lea County, NM	Project #:	
Invoice to:	COG		
Receiving Laboratory:	Xenco	Sampler Signature:	Robert Grubbs Jr
Comments:			

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2020 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)	TPH TX1005 (Ext to C35)	BTEX 8021B	TPH 8015M (GRO - DRO - MRO)	Chloride	Hold
	AH-4 3.5'	11/4/2020			X				X		1			X	X	X	
	AH-4 4.5'	11/4/2020			X				X		1			X	X	X	
	North	11/4/2020			X				X		1			X	X	X	
	South	11/4/2020			X				X		1			X	X	X	
	East	11/4/2020			X				X		1			X	X	X	
	West	11/4/2020			X				X		1			X	X	X	

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Robert Grubbs Jr	11/5/2020	1453	[signature]	11/5	1453
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY

Sample Temperature

REMARKS:

X	RUSH: Same Day 24 hr 48 hr 72 hr
	Rush Charges Authorized
	Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: COG Operating LLC

Date/ Time Received: 11.05.2020 02.54.00 PM

Work Order #: 677009

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR-8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	4.8
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**
#5 Custody Seals intact on sample bottles?	**N/A**
#6*Custody Seals Signed and dated?	**N/A**
#7 *Chain of Custody present?	**Yes**
#8 Any missing/extra samples?	**No**
#9 Chain of Custody signed when relinquished/ received?	**Yes**
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**
#11 Container label(s) legible and intact?	**Yes**
#12 Samples in proper container/ bottle?	**Yes**
#13 Samples properly preserved?	**Yes**
#14 Sample container(s) intact?	**Yes**
#15 Sufficient sample amount for indicated test(s)?	**Yes**
#16 All samples received within hold time?	**Yes**
#17 Subcontract of sample(s)?	**N/A**
#18 Water VOC samples have zero headspace?	**N/A**

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Brianna Teel Date: 11.05.2020

Brianna Teel

Checklist reviewed by: Jessica Kramer Date: 11.06.2020

Jessica Kramer

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-484-1
Laboratory Sample Delivery Group: Lea County NM
Client Project/Site: Burton 35 #001 (10-21-21)

For:
ConocoPhillips Co.
1401 Commerce Drive
Carlsbad, New Mexico 882200

Attn: Ike Tavarez

JKramer

Authorized for release by:
3/29/2021 11:49:42 AM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

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

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

Client: ConocoPhillips Co.
Project/Site: Burton 35 #001 (10-21-21)

Laboratory Job ID: 880-484-1
SDG: Lea County NM

Table of Contents

Definitions/Glossary

Client: ConocoPhillips Co. Job ID: 880-484-1
Project/Site: Burton 35 #001 (10-21-21) SDG: Lea County NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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: ConocoPhillips Co.
Project/Site: Burton 35 #001 (10-21-21)

Job ID: 880-484-1
SDG: Lea County NM

Job ID: 880-484-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative
880-484-1

Comments
No additional comments.

Receipt
The samples were received on 3/19/2021 9:31 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 was 1.0º C.

GC VOA
Method 8021B: Internal standard (ISTD) response for the following sample was outside of acceptance limits: T-1 5' (880-484-3). The sample(s) was not re-analyzed previous run confirmed

Method 8021B: Surrogate recovery for the following sample(s) was outside control limits: 1,4-Difluorobenzene (Surr) and 4-Bromofluorobenzene (Surr) 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: T-1 7' (880-484-5) and T-2 6' (880-484-10). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Detection Summary

Client: ConocoPhillips Co.
Project/Site: Burton 35 #001 (10-21-21)

Job ID: 880-484-1
SDG: Lea County NM

Client Sample ID: T-1 3' — Lab Sample ID: 880-484-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	0.0587		0.00199		mg/Kg	1		8021B	Total/NA
Toluene	0.145		0.00199		mg/Kg	1		8021B	Total/NA
Total BTEX	0.521		0.00199		mg/Kg	1		8021B	Total/NA
Xylenes, Total	0.317		0.00398		mg/Kg	1		8021B	Total/NA
m-Xylene & p-Xylene	0.189		0.00398		mg/Kg	1		8021B	Total/NA
o-Xylene	0.128		0.00199		mg/Kg	1		8021B	Total/NA
Gasoline Range Organics (GRO)-C6-C10	2170		50.0		mg/Kg	1		8015B NM	Total/NA
Diesel Range Organics (Over C10-C28)	3730		50.0		mg/Kg	1		8015B NM	Total/NA
OII Range Organics (Over C28-C36)	410		50.0		mg/Kg	1		8015B NM	Total/NA
Total TPH	6310		50.0		mg/Kg	1		8015B NM	Total/NA
Chloride	171		4.96		mg/Kg	1		300.0	Soluble

Client Sample ID: T-1 4' — Lab Sample ID: 880-484-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.00212		0.00200		mg/Kg	1		8021B	Total/NA
Ethylbenzene	0.0341		0.00200		mg/Kg	1		8021B	Total/NA
Toluene	0.0572		0.00200		mg/Kg	1		8021B	Total/NA
Total BTEX	0.348		0.00200		mg/Kg	1		8021B	Total/NA
Xylenes, Total	0.255		0.00399		mg/Kg	1		8021B	Total/NA
m-Xylene & p-Xylene	0.153		0.00399		mg/Kg	1		8021B	Total/NA
o-Xylene	0.102		0.00200		mg/Kg	1		8021B	Total/NA
Gasoline Range Organics (GRO)-C6-C10	1960		50.1		mg/Kg	1		8015B NM	Total/NA
Diesel Range Organics (Over C10-C28)	3600		50.1		mg/Kg	1		8015B NM	Total/NA
OII Range Organics (Over C28-C36)	409		50.1		mg/Kg	1		8015B NM	Total/NA
Total TPH	5970		50.1		mg/Kg	1		8015B NM	Total/NA
Chloride	11.6		4.99		mg/Kg	1		300.0	Soluble

Client Sample ID: T-1 5' — Lab Sample ID: 880-484-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	0.0335		0.00198		mg/Kg	1		8021B	Total/NA
Toluene	0.0776		0.00198		mg/Kg	1		8021B	Total/NA
Total BTEX	0.318		0.00198		mg/Kg	1		8021B	Total/NA
Xylenes, Total	0.206		0.00396		mg/Kg	1		8021B	Total/NA
m-Xylene & p-Xylene	0.181		0.00396		mg/Kg	1		8021B	Total/NA
o-Xylene	0.0254		0.00198		mg/Kg	1		8021B	Total/NA
Gasoline Range Organics (GRO)-C6-C10	2250		49.7		mg/Kg	1		8015B NM	Total/NA
Diesel Range Organics (Over C10-C28)	3120		49.7		mg/Kg	1		8015B NM	Total/NA
OII Range Organics (Over C28-C36)	339		49.7		mg/Kg	1		8015B NM	Total/NA
Total TPH	5710		49.7		mg/Kg	1		8015B NM	Total/NA

Client Sample ID: T-1 6' — Lab Sample ID: 880-484-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	0.117		0.00200		mg/Kg	1		8021B	Total/NA
Toluene	0.224		0.00200		mg/Kg	1		8021B	Total/NA
Total BTEX	1.40		0.00200		mg/Kg	1		8021B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Xenco, Midland

Detection Summary

Client: ConocoPhillips Co.
Project/Site: Burton 35 #001 (10-21-21)

Job ID: 880-484-1
SDG: Lea County NM

Client Sample ID: T-1 6' (Continued) — Lab Sample ID: 880-484-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Xylenes, Total	1.06		0.00401		mg/Kg	1		8021B	Total/NA
m-Xylene & p-Xylene	0.778		0.00401		mg/Kg	1		8021B	Total/NA
o-Xylene	0.278		0.00200		mg/Kg	1		8021B	Total/NA
Gasoline Range Organics (GRO)-C6-C10	523		49.7		mg/Kg	1		8015B NM	Total/NA
Diesel Range Organics (Over C10-C28)	1120		49.7		mg/Kg	1		8015B NM	Total/NA
OII Range Organics (Over C28-C36)	122		49.7		mg/Kg	1		8015B NM	Total/NA
Total TPH	1770		49.7		mg/Kg	1		8015B NM	Total/NA
Chloride	5.10		5.00		mg/Kg	1		300.0	Soluble

Client Sample ID: T-1 7' — Lab Sample ID: 880-484-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	0.0116		0.00200		mg/Kg	1		8021B	Total/NA
Total BTEX	0.0812		0.00200		mg/Kg	1		8021B	Total/NA
Xylenes, Total	0.0696		0.00401		mg/Kg	1		8021B	Total/NA
m-Xylene & p-Xylene	0.0521		0.00401		mg/Kg	1		8021B	Total/NA
o-Xylene	0.0175		0.00200		mg/Kg	1		8021B	Total/NA
Gasoline Range Organics (GRO)-C6-C10	188		49.7		mg/Kg	1		8015B NM	Total/NA
Diesel Range Organics (Over C10-C28)	698		49.7		mg/Kg	1		8015B NM	Total/NA
OII Range Organics (Over C28-C36)	78.2		49.7		mg/Kg	1		8015B NM	Total/NA
Total TPH	964		49.7		mg/Kg	1		8015B NM	Total/NA
Chloride	5.92		5.04		mg/Kg	1		300.0	Soluble

Client Sample ID: T-8' (Refusal) — Lab Sample ID: 880-484-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	0.0235		0.00200		mg/Kg	1		8021B	Total/NA
Toluene	0.0233		0.00200		mg/Kg	1		8021B	Total/NA
Total BTEX	0.387		0.00200		mg/Kg	1		8021B	Total/NA
Xylenes, Total	0.340		0.00400		mg/Kg	1		8021B	Total/NA
m-Xylene & p-Xylene	0.251		0.00400		mg/Kg	1		8021B	Total/NA
o-Xylene	0.0888		0.00200		mg/Kg	1		8021B	Total/NA
Gasoline Range Organics (GRO)-C6-C10	281		49.8		mg/Kg	1		8015B NM	Total/NA
Diesel Range Organics (Over C10-C28)	601		49.8		mg/Kg	1		8015B NM	Total/NA
OII Range Organics (Over C28-C36)	74.6		49.8		mg/Kg	1		8015B NM	Total/NA
Total TPH	957		49.8		mg/Kg	1		8015B NM	Total/NA
Chloride	6.26		5.05		mg/Kg	1		300.0	Soluble

Client Sample ID: T-2 3' — Lab Sample ID: 880-484-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	0.0306		0.00200		mg/Kg	1		8021B	Total/NA
Toluene	0.0611		0.00200		mg/Kg	1		8021B	Total/NA
Total BTEX	0.336		0.00200		mg/Kg	1		8021B	Total/NA
Xylenes, Total	0.244		0.00399		mg/Kg	1		8021B	Total/NA
m-Xylene & p-Xylene	0.149		0.00399		mg/Kg	1		8021B	Total/NA
o-Xylene	0.0954		0.00200		mg/Kg	1		8021B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Xenco, Midland

Detection Summary

Client: ConocoPhillips Co.
Project/Site: Burton 35 #001 (10-21-21)

Job ID: 880-484-1
SDG: Lea County NM

Client Sample ID: T-2 3' (Continued) — Lab Sample ID: 880-484-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO)-C6-C10	3320		50.0		mg/Kg	1		8015B NM	Total/NA
Diesel Range Organics (Over C10-C28)	3990		50.0		mg/Kg	1		8015B NM	Total/NA
OII Range Organics (Over C28-C36)	435		50.0		mg/Kg	1		8015B NM	Total/NA
Total TPH	7750		50.0		mg/Kg	1		8015B NM	Total/NA

Client Sample ID: T2 4' — Lab Sample ID: 880-484-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.00215		0.00200		mg/Kg	1		8021B	Total/NA
Toluene	0.121		0.00200		mg/Kg	1		8021B	Total/NA
Total BTEX	0.270		0.00200		mg/Kg	1		8021B	Total/NA
Xylenes, Total	0.147		0.00400		mg/Kg	1		8021B	Total/NA
m-Xylene & p-Xylene	0.138		0.00400		mg/Kg	1		8021B	Total/NA
o-Xylene	0.00878		0.00200		mg/Kg	1		8021B	Total/NA
Gasoline Range Organics (GRO)-C6-C10	3220		50.2		mg/Kg	1		8015B NM	Total/NA
Diesel Range Organics (Over C10-C28)	3990		50.2		mg/Kg	1		8015B NM	Total/NA
OII Range Organics (Over C28-C36)	442		50.2		mg/Kg	1		8015B NM	Total/NA
Total TPH	7650		50.2		mg/Kg	1		8015B NM	Total/NA

Client Sample ID: T-2 5' — Lab Sample ID: 880-484-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total BTEX	0.00410		0.00198		mg/Kg	1		8021B	Total/NA
Xylenes, Total	0.00410		0.00397		mg/Kg	1		8021B	Total/NA
o-Xylene	0.00410		0.00198		mg/Kg	1		8021B	Total/NA
Gasoline Range Organics (GRO)-C6-C10	4000		49.8		mg/Kg	1		8015B NM	Total/NA
Diesel Range Organics (Over C10-C28)	4500		49.8		mg/Kg	1		8015B NM	Total/NA
OII Range Organics (Over C28-C36)	514		49.8		mg/Kg	1		8015B NM	Total/NA
Total TPH	9010		49.8		mg/Kg	1		8015B NM	Total/NA

Client Sample ID: T-2 6' — Lab Sample ID: 880-484-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.00243		0.00199		mg/Kg	1		8021B	Total/NA
Ethylbenzene	0.173		0.00199		mg/Kg	1		8021B	Total/NA
Toluene	0.0919		0.00199		mg/Kg	1		8021B	Total/NA
Total BTEX	0.740		0.00199		mg/Kg	1		8021B	Total/NA
Xylenes, Total	0.473		0.00398		mg/Kg	1		8021B	Total/NA
m-Xylene & p-Xylene	0.160		0.00398		mg/Kg	1		8021B	Total/NA
o-Xylene	0.313		0.00199		mg/Kg	1		8021B	Total/NA
Gasoline Range Organics (GRO)-C6-C10	604		50.0		mg/Kg	1		8015B NM	Total/NA
Diesel Range Organics (Over C10-C28)	1370		50.0		mg/Kg	1		8015B NM	Total/NA
OII Range Organics (Over C28-C36)	159		50.0		mg/Kg	1		8015B NM	Total/NA
Total TPH	2130		50.0		mg/Kg	1		8015B NM	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Xenco, Midland

Detection Summary

Client: ConocoPhillips Co.
Project/Site: Burton 35 #001 (10-21-21)

Job ID: 880-484-1
SDG: Lea County NM

Client Sample ID: T-2 7' — Lab Sample ID: 880-484-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	0.0705		0.00199		mg/Kg	1		8021B	Total/NA
Toluene	0.0662		0.00199		mg/Kg	1		8021B	Total/NA
Total BTEX	0.451		0.00199		mg/Kg	1		8021B	Total/NA
Xylenes, Total	0.314		0.00398		mg/Kg	1		8021B	Total/NA
o-Xylene	0.181		0.00199		mg/Kg	1		8021B	Total/NA
Gasoline Range Organics (GRO)-C6-C10	720		49.9		mg/Kg	1		8015B NM	Total/NA
Diesel Range Organics (Over C10-C28)	1330		49.9		mg/Kg	1		8015B NM	Total/NA
OII Range Organics (Over C28-C36)	148		49.9		mg/Kg	1		8015B NM	Total/NA
Total TPH	2200		49.9		mg/Kg	1		8015B NM	Total/NA
Chloride	5.14		5.00		mg/Kg	1		300.0	Soluble

Client Sample ID: T-8 8' (Refusal) — Lab Sample ID: 880-484-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO)-C6-C10	481		49.8		mg/Kg	1		8015B NM	Total/NA
Diesel Range Organics (Over C10-C28)	1120		49.8		mg/Kg	1		8015B NM	Total/NA
OII Range Organics (Over C28-C36)	131		49.8		mg/Kg	1		8015B NM	Total/NA
Total TPH	1730		49.8		mg/Kg	1		8015B NM	Total/NA
Chloride	87.1		5.04		mg/Kg	1		300.0	Soluble

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: ConocoPhillips Co.
Project/Site: Burton 35 #001 (10-21-21)

Job ID: 880-484-1
SDG: Lea County NM

Client Sample ID: T-1 3'

Lab Sample ID: 880-484-1
Matrix: Solid
Date Collected: 03/18/21 00:00
Date Received: 03/19/21 09:31

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/22/21 11:15	03/23/21 11:48	1
Ethylbenzene	**0.0587**		0.00199		mg/Kg		03/22/21 11:15	03/23/21 11:48	1
Toluene	**0.145**		0.00199		mg/Kg		03/22/21 11:15	03/23/21 11:48	1
Total BTEX	**0.521**		0.00199		mg/Kg		03/22/21 11:15	03/23/21 11:48	1
Xylenes, Total	**0.317**		0.00398		mg/Kg		03/22/21 11:15	03/23/21 11:48	1
m-Xylene & p-Xylene	**0.189**		0.00398		mg/Kg		03/22/21 11:15	03/23/21 11:48	1
o-Xylene	**0.128**		0.00199		mg/Kg		03/22/21 11:15	03/23/21 11:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*15*	*S1-*	*70 - 130*	*03/22/21 11:15*	*03/23/21 11:48*	*1*
1,4-Difluorobenzene (Surr)	*2*	*S1-*	*70 - 130*	*03/22/21 11:15*	*03/23/21 11:48*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**2170**		50.0		mg/Kg		03/19/21 14:08	03/20/21 05:58	1
Diesel Range Organics (Over C10-C28)	**3730**		50.0		mg/Kg		03/19/21 14:08	03/20/21 05:58	1
Oil Range Organics (Over C28-C36)	**410**		50.0		mg/Kg		03/19/21 14:08	03/20/21 05:58	1
Total TPH	**6310**		50.0		mg/Kg		03/19/21 14:08	03/20/21 05:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 130*	*03/19/21 14:08*	*03/20/21 05:58*	*1*
o-Terphenyl	*91*		*70 - 130*	*03/19/21 14:08*	*03/20/21 05:58*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**171**		4.96		mg/Kg			03/20/21 15:34	1

Client Sample ID: T-1 4'

Lab Sample ID: 880-484-2
Matrix: Solid
Date Collected: 03/18/21 00:00
Date Received: 03/19/21 09:31

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00212**		0.00200		mg/Kg		03/22/21 11:15	03/23/21 12:09	1
Ethylbenzene	**0.0341**		0.00200		mg/Kg		03/22/21 11:15	03/23/21 12:09	1
Toluene	**0.0572**		0.00200		mg/Kg		03/22/21 11:15	03/23/21 12:09	1
Total BTEX	**0.348**		0.00200		mg/Kg		03/22/21 11:15	03/23/21 12:09	1
Xylenes, Total	**0.255**		0.00399		mg/Kg		03/22/21 11:15	03/23/21 12:09	1
m-Xylene & p-Xylene	**0.153**		0.00399		mg/Kg		03/22/21 11:15	03/23/21 12:09	1
o-Xylene	**0.102**		0.00200		mg/Kg		03/22/21 11:15	03/23/21 12:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*9*	*S1-*	*70 - 130*	*03/22/21 11:15*	*03/23/21 12:09*	*1*
1,4-Difluorobenzene (Surr)	*2*	*S1-*	*70 - 130*	*03/22/21 11:15*	*03/23/21 12:09*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**1960**		50.1		mg/Kg		03/19/21 14:08	03/20/21 06:19	1

Eurofins Xenco, Midland

Client Sample Results

Client: ConocoPhillips Co.
Project/Site: Burton 35 #001 (10-21-21)

Job ID: 880-484-1
SDG: Lea County NM

Client Sample ID: T-1 4'

Lab Sample ID: 880-484-2
Matrix: Solid
Date Collected: 03/18/21 00:00
Date Received: 03/19/21 09:31

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	3600		50.1		mg/Kg		03/19/21 14:08	03/20/21 06:19	1
Oil Range Organics (Over C28-C36)	409		50.1		mg/Kg		03/19/21 14:08	03/20/21 06:19	1
Total TPH	5970		50.1		mg/Kg		03/19/21 14:08	03/20/21 06:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*113*		*70 - 130*	*03/19/21 14:08*	*03/20/21 06:19*	*1*
o-Terphenyl	*92*		*70 - 130*	*03/19/21 14:08*	*03/20/21 06:19*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.6		4.99		mg/Kg			03/20/21 15:51	1

Client Sample ID: T-1 5'

Lab Sample ID: 880-484-3
Matrix: Solid
Date Collected: 03/18/21 00:00
Date Received: 03/19/21 09:31

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/22/21 11:15	03/23/21 12:29	1
Ethylbenzene	0.0335		0.00198		mg/Kg		03/22/21 11:15	03/23/21 12:29	1
Toluene	0.0776		0.00198		mg/Kg		03/22/21 11:15	03/23/21 12:29	1
Total BTEX	0.318		0.00198		mg/Kg		03/22/21 11:15	03/23/21 12:29	1
Xylenes, Total	0.206		0.00396		mg/Kg		03/22/21 11:15	03/23/21 12:29	1
m-Xylene & p-Xylene	0.181		0.00396		mg/Kg		03/22/21 11:15	03/23/21 12:29	1
o-Xylene	0.0254		0.00198		mg/Kg		03/22/21 11:15	03/23/21 12:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*12*	*S1-*	*70 - 130*	*03/22/21 11:15*	*03/23/21 12:29*	*1*
1,4-Difluorobenzene (Surr)	*4*	*S1-*	*70 - 130*	*03/22/21 11:15*	*03/23/21 12:29*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2250		49.7		mg/Kg		03/19/21 14:08	03/20/21 06:40	1
Diesel Range Organics (Over C10-C28)	3120		49.7		mg/Kg		03/19/21 14:08	03/20/21 06:40	1
Oil Range Organics (Over C28-C36)	339		49.7		mg/Kg		03/19/21 14:08	03/20/21 06:40	1
Total TPH	5710		49.7		mg/Kg		03/19/21 14:08	03/20/21 06:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*112*		*70 - 130*	*03/19/21 14:08*	*03/20/21 06:40*	*1*
o-Terphenyl	*94*		*70 - 130*	*03/19/21 14:08*	*03/20/21 06:40*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.97	U	4.97		mg/Kg			03/20/21 15:56	1

Client Sample Results

Client: ConocoPhillips Co.
Project/Site: Burton 35 #001 (10-21-21)

Job ID: 880-484-1
SDG: Lea County NM

Client Sample ID: T-1 6'

Lab Sample ID: 880-484-4
Matrix: Solid
Date Collected: 03/18/21 00:00
Date Received: 03/19/21 09:31

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/22/21 11:15	03/23/21 12:50	1
Ethylbenzene	**0.117**		0.00200		mg/Kg		03/22/21 11:15	03/23/21 12:50	1
Toluene	**0.224**		0.00200		mg/Kg		03/22/21 11:15	03/23/21 12:50	1
Total BTEX	**1.40**		0.00200		mg/Kg		03/22/21 11:15	03/23/21 12:50	1
Xylenes, Total	**1.06**		0.00401		mg/Kg		03/22/21 11:15	03/23/21 12:50	1
m-Xylene & p-Xylene	**0.778**		0.00401		mg/Kg		03/22/21 11:15	03/23/21 12:50	1
o-Xylene	**0.278**		0.00200		mg/Kg		03/22/21 11:15	03/23/21 12:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*03/22/21 11:15*	*03/23/21 12:50*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*03/22/21 11:15*	*03/23/21 12:50*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**523**		49.7		mg/Kg		03/19/21 14:08	03/20/21 07:23	1
Diesel Range Organics (Over C10-C28)	**1120**		49.7		mg/Kg		03/19/21 14:08	03/20/21 07:23	1
Oil Range Organics (Over C28-C36)	**122**		49.7		mg/Kg		03/19/21 14:08	03/20/21 07:23	1
Total TPH	**1770**		49.7		mg/Kg		03/19/21 14:08	03/20/21 07:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*03/19/21 14:08*	*03/20/21 07:23*	*1*
o-Terphenyl	*78*		*70 - 130*	*03/19/21 14:08*	*03/20/21 07:23*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.10**		5.00		mg/Kg			03/20/21 16:02	1

Client Sample ID: T-1 7'

Lab Sample ID: 880-484-5
Matrix: Solid
Date Collected: 03/18/21 00:00
Date Received: 03/19/21 09:31

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/25/21 10:12	03/25/21 19:29	1
Ethylbenzene	**0.0116**		0.00200		mg/Kg		03/25/21 10:12	03/25/21 19:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/25/21 10:12	03/25/21 19:29	1
Total BTEX	**0.0812**		0.00200		mg/Kg		03/25/21 10:12	03/25/21 19:29	1
Xylenes, Total	**0.0696**		0.00401		mg/Kg		03/25/21 10:12	03/25/21 19:29	1
m-Xylene & p-Xylene	**0.0521**		0.00401		mg/Kg		03/25/21 10:12	03/25/21 19:29	1
o-Xylene	**0.0175**		0.00200		mg/Kg		03/25/21 10:12	03/25/21 19:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*132*	*S1+*	*70 - 130*	*03/25/21 10:12*	*03/25/21 19:29*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*03/25/21 10:12*	*03/25/21 19:29*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**188**		49.7		mg/Kg		03/19/21 14:08	03/20/21 15:01	1

Eurofins Xenco, Midland

Client Sample Results

Client: ConocoPhillips Co.
Project/Site: Burton 35 #001 (10-21-21)

Job ID: 880-484-1
SDG: Lea County NM

Client Sample ID: T-1 7'

Lab Sample ID: 880-484-5
Matrix: Solid
Date Collected: 03/18/21 00:00
Date Received: 03/19/21 09:31

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	698		49.7		mg/Kg		03/19/21 14:08	03/20/21 15:01	1
Oil Range Organics (Over C28-C36)	78.2		49.7		mg/Kg		03/19/21 14:08	03/20/21 15:01	1
Total TPH	964		49.7		mg/Kg		03/19/21 14:08	03/20/21 15:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*03/19/21 14:08*	*03/20/21 15:01*	*1*
o-Terphenyl	*97*		*70 - 130*	*03/19/21 14:08*	*03/20/21 15:01*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.92		5.04		mg/Kg			03/20/21 16:07	1

Client Sample ID: T-8' (Refusal)

Lab Sample ID: 880-484-6
Matrix: Solid
Date Collected: 03/18/21 00:00
Date Received: 03/19/21 09:31

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/22/21 11:15	03/23/21 13:31	1
Ethylbenzene	0.0235		0.00200		mg/Kg		03/22/21 11:15	03/23/21 13:31	1
Toluene	0.0233		0.00200		mg/Kg		03/22/21 11:15	03/23/21 13:31	1
Total BTEX	0.387		0.00200		mg/Kg		03/22/21 11:15	03/23/21 13:31	1
Xylenes, Total	0.340		0.00400		mg/Kg		03/22/21 11:15	03/23/21 13:31	1
m-Xylene & p-Xylene	0.251		0.00400		mg/Kg		03/22/21 11:15	03/23/21 13:31	1
o-Xylene	0.0888		0.00200		mg/Kg		03/22/21 11:15	03/23/21 13:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*03/22/21 11:15*	*03/23/21 13:31*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*03/22/21 11:15*	*03/23/21 13:31*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	281		49.8		mg/Kg		03/19/21 14:08	03/20/21 15:22	1
Diesel Range Organics (Over C10-C28)	601		49.8		mg/Kg		03/19/21 14:08	03/20/21 15:22	1
Oil Range Organics (Over C28-C36)	74.6		49.8		mg/Kg		03/19/21 14:08	03/20/21 15:22	1
Total TPH	957		49.8		mg/Kg		03/19/21 14:08	03/20/21 15:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*03/19/21 14:08*	*03/20/21 15:22*	*1*
o-Terphenyl	*94*		*70 - 130*	*03/19/21 14:08*	*03/20/21 15:22*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.26		5.05		mg/Kg			03/20/21 16:24	1

Client Sample Results

Client: ConocoPhillips Co.
Project/Site: Burton 35 #001 (10-21-21)

Job ID: 880-484-1
SDG: Lea County NM

Client Sample ID: T-2 3'

Lab Sample ID: 880-484-7
Matrix: Solid
Date Collected: 03/18/21 00:00
Date Received: 03/19/21 09:31

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/22/21 11:15	03/23/21 13:51	1
Ethylbenzene	**0.0306**		0.00200		mg/Kg		03/22/21 11:15	03/23/21 13:51	1
Toluene	**0.0611**		0.00200		mg/Kg		03/22/21 11:15	03/23/21 13:51	1
Total BTEX	**0.336**		0.00200		mg/Kg		03/22/21 11:15	03/23/21 13:51	1
Xylenes, Total	**0.244**		0.00399		mg/Kg		03/22/21 11:15	03/23/21 13:51	1
m-Xylene & p-Xylene	**0.149**		0.00399		mg/Kg		03/22/21 11:15	03/23/21 13:51	1
o-Xylene	**0.0954**		0.00200		mg/Kg		03/22/21 11:15	03/23/21 13:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*8*	*S1-*	*70 - 130*	*03/22/21 11:15*	*03/23/21 13:51*	*1*
1,4-Difluorobenzene (Surr)	*2*	*S1-*	*70 - 130*	*03/22/21 11:15*	*03/23/21 13:51*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**3320**		50.0		mg/Kg		03/19/21 14:08	03/20/21 08:28	1
Diesel Range Organics (Over C10-C28)	**3990**		50.0		mg/Kg		03/19/21 14:08	03/20/21 08:28	1
Oil Range Organics (Over C28-C36)	**435**		50.0		mg/Kg		03/19/21 14:08	03/20/21 08:28	1
Total TPH	**7750**		50.0		mg/Kg		03/19/21 14:08	03/20/21 08:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*03/19/21 14:08*	*03/20/21 08:28*	*1*
o-Terphenyl	*84*		*70 - 130*	*03/19/21 14:08*	*03/20/21 08:28*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.05	U	5.05		mg/Kg			03/20/21 16:29	1

Client Sample ID: T2 4'

Lab Sample ID: 880-484-8
Matrix: Solid
Date Collected: 03/18/21 00:00
Date Received: 03/19/21 09:31

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00215**		0.00200		mg/Kg		03/22/21 11:15	03/23/21 14:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/22/21 11:15	03/23/21 14:11	1
Toluene	**0.121**		0.00200		mg/Kg		03/22/21 11:15	03/23/21 14:11	1
Total BTEX	**0.270**		0.00200		mg/Kg		03/22/21 11:15	03/23/21 14:11	1
Xylenes, Total	**0.147**		0.00400		mg/Kg		03/22/21 11:15	03/23/21 14:11	1
m-Xylene & p-Xylene	**0.138**		0.00400		mg/Kg		03/22/21 11:15	03/23/21 14:11	1
o-Xylene	**0.00878**		0.00200		mg/Kg		03/22/21 11:15	03/23/21 14:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*29*	*S1-*	*70 - 130*	*03/22/21 11:15*	*03/23/21 14:11*	*1*
1,4-Difluorobenzene (Surr)	*3*	*S1-*	*70 - 130*	*03/22/21 11:15*	*03/23/21 14:11*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**3220**		50.2		mg/Kg		03/19/21 14:08	03/20/21 08:49	1

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Client Sample Results

Client: ConocoPhillips Co.
Project/Site: Burton 35 #001 (10-21-21)

Job ID: 880-484-1
SDG: Lea County NM

Client Sample ID: T2 4'

Lab Sample ID: 880-484-8
Matrix: Solid
Date Collected: 03/18/21 00:00
Date Received: 03/19/21 09:31

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	3990		50.2		mg/Kg		03/19/21 14:08	03/20/21 08:49	1
Oil Range Organics (Over C28-C36)	442		50.2		mg/Kg		03/19/21 14:08	03/20/21 08:49	1
Total TPH	7650		50.2		mg/Kg		03/19/21 14:08	03/20/21 08:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*113*		*70 - 130*	*03/19/21 14:08*	*03/20/21 08:49*	*1*
o-Terphenyl	*88*		*70 - 130*	*03/19/21 14:08*	*03/20/21 08:49*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.98	U	4.98		mg/Kg			03/20/21 16:35	1

Client Sample ID: T-2 5'

Lab Sample ID: 880-484-9
Matrix: Solid
Date Collected: 03/18/21 00:00
Date Received: 03/19/21 09:31

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/22/21 11:15	03/23/21 14:58	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/22/21 11:15	03/23/21 14:58	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/22/21 11:15	03/23/21 14:58	1
Total BTEX	0.00410		0.00198		mg/Kg		03/22/21 11:15	03/23/21 14:58	1
Xylenes, Total	0.00410		0.00397		mg/Kg		03/22/21 11:15	03/23/21 14:58	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/24/21 18:12	03/25/21 15:31	1
o-Xylene	0.00410		0.00198		mg/Kg		03/22/21 11:15	03/23/21 14:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*03/22/21 11:15*	*03/23/21 14:58*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*03/22/21 11:15*	*03/23/21 14:58*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	4000		49.8		mg/Kg		03/19/21 14:08	03/20/21 09:10	1
Diesel Range Organics (Over C10-C28)	4500		49.8		mg/Kg		03/19/21 14:08	03/20/21 09:10	1
Oil Range Organics (Over C28-C36)	514		49.8		mg/Kg		03/19/21 14:08	03/20/21 09:10	1
Total TPH	9010		49.8		mg/Kg		03/19/21 14:08	03/20/21 09:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*132*	*S1+*	*70 - 130*	*03/19/21 14:08*	*03/20/21 09:10*	*1*
o-Terphenyl	*101*		*70 - 130*	*03/19/21 14:08*	*03/20/21 09:10*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.99	U	4.99		mg/Kg			03/20/21 16:41	1

Client Sample Results

Client: ConocoPhillips Co.
Project/Site: Burton 35 #001 (10-21-21)

Job ID: 880-484-1
SDG: Lea County NM

Client Sample ID: T-2 6'

Lab Sample ID: 880-484-10
Matrix: Solid
Date Collected: 03/18/21 00:00
Date Received: 03/19/21 09:31

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00243**		0.00199		mg/Kg		03/25/21 10:12	03/25/21 20:51	1
Ethylbenzene	**0.173**		0.00199		mg/Kg		03/25/21 10:12	03/25/21 20:51	1
Toluene	**0.0919**		0.00199		mg/Kg		03/25/21 10:12	03/25/21 20:51	1
Total BTEX	**0.740**		0.00199		mg/Kg		03/25/21 10:12	03/25/21 20:51	1
Xylenes, Total	**0.473**		0.00398		mg/Kg		03/25/21 10:12	03/25/21 20:51	1
m-Xylene & p-Xylene	**0.160**		0.00398		mg/Kg		03/25/21 10:12	03/25/21 20:51	1
o-Xylene	**0.313**		0.00199		mg/Kg		03/25/21 10:12	03/25/21 20:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*178*	*S1+*	*70 - 130*	*03/25/21 10:12*	*03/25/21 20:51*	*1*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*	*03/25/21 10:12*	*03/25/21 20:51*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**604**		50.0		mg/Kg		03/19/21 14:08	03/20/21 09:31	1
Diesel Range Organics (Over C10-C28)	**1370**		50.0		mg/Kg		03/19/21 14:08	03/20/21 09:31	1
Oil Range Organics (Over C28-C36)	**159**		50.0		mg/Kg		03/19/21 14:08	03/20/21 09:31	1
Total TPH	**2130**		50.0		mg/Kg		03/19/21 14:08	03/20/21 09:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*03/19/21 14:08*	*03/20/21 09:31*	*1*
o-Terphenyl	*86*		*70 - 130*	*03/19/21 14:08*	*03/20/21 09:31*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.04	U	5.04		mg/Kg			03/20/21 16:46	1

Client Sample ID: T-2 7'

Lab Sample ID: 880-484-11
Matrix: Solid
Date Collected: 03/18/21 00:00
Date Received: 03/19/21 09:31

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/22/21 11:15	03/23/21 15:47	1
Ethylbenzene	**0.0705**		0.00199		mg/Kg		03/22/21 11:15	03/23/21 15:47	1
Toluene	**0.0662**		0.00199		mg/Kg		03/22/21 11:15	03/23/21 15:47	1
Total BTEX	**0.451**		0.00199		mg/Kg		03/22/21 11:15	03/23/21 15:47	1
Xylenes, Total	**0.314**		0.00398		mg/Kg		03/22/21 11:15	03/23/21 15:47	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/24/21 18:12	03/25/21 16:12	1
o-Xylene	**0.181**		0.00199		mg/Kg		03/22/21 11:15	03/23/21 15:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*29*	*S1-*	*70 - 130*	*03/22/21 11:15*	*03/23/21 15:47*	*1*
1,4-Difluorobenzene (Surr)	*5*	*S1-*	*70 - 130*	*03/22/21 11:15*	*03/23/21 15:47*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**720**		49.9		mg/Kg		03/19/21 14:08	03/20/21 15:43	1

Eurofins Xenco, Midland

Client Sample Results

Client: ConocoPhillips Co.
Project/Site: Burton 35 #001 (10-21-21)

Job ID: 880-484-1
SDG: Lea County NM

Client Sample ID: T-2 7'

Lab Sample ID: 880-484-11
Matrix: Solid
Date Collected: 03/18/21 00:00
Date Received: 03/19/21 09:31

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	1330		49.9		mg/Kg		03/19/21 14:08	03/20/21 15:43	1
Oil Range Organics (Over C28-C36)	148		49.9		mg/Kg		03/19/21 14:08	03/20/21 15:43	1
Total TPH	2200		49.9		mg/Kg		03/19/21 14:08	03/20/21 15:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*03/19/21 14:08*	*03/20/21 15:43*	*1*
o-Terphenyl	*86*		*70 - 130*	*03/19/21 14:08*	*03/20/21 15:43*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.14		5.00		mg/Kg			03/20/21 16:52	1

Client Sample ID: T-8 8' (Refusal)

Lab Sample ID: 880-484-12
Matrix: Solid
Date Collected: 03/18/21 00:00
Date Received: 03/19/21 09:31

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/24/21 18:12	03/25/21 16:33	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/24/21 18:12	03/25/21 16:33	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/24/21 18:12	03/25/21 16:33	1
Total BTEX	<0.00198	U	0.00198		mg/Kg		03/24/21 18:12	03/25/21 16:33	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/24/21 18:12	03/25/21 16:33	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/24/21 18:12	03/25/21 16:33	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/24/21 18:12	03/25/21 16:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*	*03/24/21 18:12*	*03/25/21 16:33*	*1*
1,4-Difluorobenzene (Surr)	*123*		*70 - 130*	*03/24/21 18:12*	*03/25/21 16:33*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	481		49.8		mg/Kg		03/19/21 14:08	03/20/21 10:14	1
Diesel Range Organics (Over C10-C28)	1120		49.8		mg/Kg		03/19/21 14:08	03/20/21 10:14	1
Oil Range Organics (Over C28-C36)	131		49.8		mg/Kg		03/19/21 14:08	03/20/21 10:14	1
Total TPH	1730		49.8		mg/Kg		03/19/21 14:08	03/20/21 10:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*03/19/21 14:08*	*03/20/21 10:14*	*1*
o-Terphenyl	*94*		*70 - 130*	*03/19/21 14:08*	*03/20/21 10:14*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	87.1		5.04		mg/Kg			03/20/21 17:08	1

Surrogate Summary

Client: ConocoPhillips Co.
Project/Site: Burton 35 #001 (10-21-21)

Job ID: 880-484-1
SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-484-1	T-1 3'	15 S1-	2 S1-
880-484-2	T-1 4'	9 S1-	2 S1-
880-484-3	T-1 5'	12 S1-	4 S1-
880-484-4	T-1 6'	100	90
880-484-5	T-1 7'	132 S1+	108
880-484-6	T-8' (Refusal)	99	89
880-484-7	T-2 3'	8 S1-	2 S1-
880-484-8	T2 4'	29 S1-	3 S1-
880-484-9	T-2 5'	104	97
880-484-10	T-2 6'	178 S1+	116
880-484-11	T-2 7'	29 S1-	5 S1-
880-484-12	T-8 8' (Refusal)	82	123
LCS 880-688/1-A	Lab Control Sample	102	100
LCS 880-785/1-A	Lab Control Sample	97	105
LCS 880-825/1-A	Lab Control Sample	88	95
LCS 880-841/1-A	Lab Control Sample	98	101
LCSD 880-688/2-A	Lab Control Sample Dup	104	100
LCSD 880-785/2-A	Lab Control Sample Dup	92	98
LCSD 880-825/2-A	Lab Control Sample Dup	92	96
LCSD 880-841/2-A	Lab Control Sample Dup	101	100
MB 880-688/5-A	Method Blank	106	96
MB 880-785/5-A	Method Blank	111	97
MB 880-825/5-A	Method Blank	114	91
MB 880-841/5-A	Method Blank	100	99

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-484-1	T-1 3'	115	91
880-484-2	T-1 4'	113	92
880-484-3	T-1 5'	112	94
880-484-4	T-1 6'	85	78
880-484-5	T-1 7'	98	97
880-484-6	T-8' (Refusal)	100	94
880-484-7	T-2 3'	108	84
880-484-8	T2 4'	113	88
880-484-9	T-2 5'	132 S1+	101
880-484-10	T-2 6'	92	86
880-484-11	T-2 7'	95	86
880-484-12	T-8 8' (Refusal)	99	94
LCS 880-614/2-A	Lab Control Sample	119	113
LCSD 880-614/3-A	Lab Control Sample Dup	116	110
MB 880-614/1-A	Method Blank	117	122

Surrogate Summary

Client: ConocoPhillips Co.
Project/Site: Burton 35 #001 (10-21-21)

Job ID: 880-484-1
SDG: Lea County NM

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: ConocoPhillips Co.
Project/Site: Burton 35 #001 (10-21-21)

Job ID: 880-484-1
SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-688/5-A
Matrix: Solid
Analysis Batch: 734

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 688

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/22/21 11:15	03/23/21 10:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/22/21 11:15	03/23/21 10:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/22/21 11:15	03/23/21 10:39	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/22/21 11:15	03/23/21 10:39	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/22/21 11:15	03/23/21 10:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/22/21 11:15	03/23/21 10:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/22/21 11:15	03/23/21 10:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*03/22/21 11:15*	*03/23/21 10:39*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*03/22/21 11:15*	*03/23/21 10:39*	*1*

Lab Sample ID: LCS 880-688/1-A
Matrix: Solid
Analysis Batch: 734

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 688

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.1084		mg/Kg		108	70 - 130		
Ethylbenzene			0.100	0.1193		mg/Kg		119	70 - 130		
Toluene			0.100	0.1157		mg/Kg		116	70 - 130		
m-Xylene & p-Xylene			0.200	0.2466		mg/Kg		123	70 - 130		
o-Xylene			0.100	0.1163		mg/Kg		116	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 880-688/2-A
Matrix: Solid
Analysis Batch: 734

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 688

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.1127		mg/Kg		113	70 - 130	4	35
Ethylbenzene			0.100	0.1217		mg/Kg		122	70 - 130	2	35
Toluene			0.100	0.1184		mg/Kg		118	70 - 130	2	35
m-Xylene & p-Xylene			0.200	0.2508		mg/Kg		125	70 - 130	2	35
o-Xylene			0.100	0.1193		mg/Kg		119	70 - 130	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: MB 880-785/5-A
Matrix: Solid
Analysis Batch: 827

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 785

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/23/21 17:38	03/24/21 22:52	1

QC Sample Results

Client: ConocoPhillips Co.
Project/Site: Burton 35 #001 (10-21-21)

Job ID: 880-484-1
SDG: Lea County NM

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

Lab Sample ID: MB 880-785/5-A
Matrix: Solid
Analysis Batch: 827

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 785

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/23/21 17:38	03/24/21 22:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/23/21 17:38	03/24/21 22:52	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/23/21 17:38	03/24/21 22:52	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/23/21 17:38	03/24/21 22:52	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/23/21 17:38	03/24/21 22:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/23/21 17:38	03/24/21 22:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*03/23/21 17:38*	*03/24/21 22:52*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*03/23/21 17:38*	*03/24/21 22:52*	*1*

Lab Sample ID: LCS 880-785/1-A
Matrix: Solid
Analysis Batch: 827

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 785

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1119		mg/Kg		112	70 - 130
Ethylbenzene	0.100	0.1127		mg/Kg		113	70 - 130
Toluene	0.100	0.1178		mg/Kg		118	70 - 130
m-Xylene & p-Xylene	0.200	0.2245		mg/Kg		112	70 - 130
o-Xylene	0.100	0.1093		mg/Kg		109	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: LCSD 880-785/2-A
Matrix: Solid
Analysis Batch: 827

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 785

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1035		mg/Kg		104	70 - 130	8	35
Ethylbenzene	0.100	0.1059		mg/Kg		106	70 - 130	6	35
Toluene	0.100	0.1086		mg/Kg		109	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.2099		mg/Kg		105	70 - 130	7	35
o-Xylene	0.100	0.1011		mg/Kg		101	70 - 130	8	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: MB 880-825/5-A
Matrix: Solid
Analysis Batch: 827

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 825

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/24/21 18:12	03/25/21 09:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/24/21 18:12	03/25/21 09:53	1

QC Sample Results

Client: ConocoPhillips Co.
Project/Site: Burton 35 #001 (10-21-21)

Job ID: 880-484-1
SDG: Lea County NM

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

Lab Sample ID: MB 880-825/5-A
Matrix: Solid
Analysis Batch: 827

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 825

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00200	U	0.00200		mg/Kg		03/24/21 18:12	03/25/21 09:53	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/24/21 18:12	03/25/21 09:53	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/24/21 18:12	03/25/21 09:53	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/24/21 18:12	03/25/21 09:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/24/21 18:12	03/25/21 09:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*03/24/21 18:12*	*03/25/21 09:53*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*03/24/21 18:12*	*03/25/21 09:53*	*1*

Lab Sample ID: LCS 880-825/1-A
Matrix: Solid
Analysis Batch: 827

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 825

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09183		mg/Kg		92	70 - 130
Ethylbenzene	0.100	0.09466		mg/Kg		95	70 - 130
Toluene	0.100	0.09952		mg/Kg		100	70 - 130
m-Xylene & p-Xylene	0.200	0.1897		mg/Kg		95	70 - 130
o-Xylene	0.100	0.09483		mg/Kg		95	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: LCSD 880-825/2-A
Matrix: Solid
Analysis Batch: 827

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 825

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09347		mg/Kg		93	70 - 130	2	35
Ethylbenzene	0.100	0.09481		mg/Kg		95	70 - 130	0	35
Toluene	0.100	0.1050		mg/Kg		105	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.1972		mg/Kg		99	70 - 130	4	35
o-Xylene	0.100	0.09956		mg/Kg		100	70 - 130	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: MB 880-841/5-A
Matrix: Solid
Analysis Batch: 830

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 841

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/25/21 10:12	03/25/21 14:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/25/21 10:12	03/25/21 14:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/25/21 10:12	03/25/21 14:23	1

QC Sample Results

Client: ConocoPhillips Co.
Project/Site: Burton 35 #001 (10-21-21)

Job ID: 880-484-1
SDG: Lea County NM

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

Lab Sample ID: MB 880-841/5-A
Matrix: Solid
Analysis Batch: 830

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 841

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/25/21 10:12	03/25/21 14:23	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/25/21 10:12	03/25/21 14:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/25/21 10:12	03/25/21 14:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/25/21 10:12	03/25/21 14:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*03/25/21 10:12*	*03/25/21 14:23*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*03/25/21 10:12*	*03/25/21 14:23*	*1*

Lab Sample ID: LCS 880-841/1-A
Matrix: Solid
Analysis Batch: 830

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 841

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09164		mg/Kg		92	70 - 130
Ethylbenzene	0.100	0.09034		mg/Kg		90	70 - 130
Toluene	0.100	0.08687		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	0.200	0.1780		mg/Kg		89	70 - 130
o-Xylene	0.100	0.08846		mg/Kg		88	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 880-841/2-A
Matrix: Solid
Analysis Batch: 830

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 841

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09137		mg/Kg		91	70 - 130	0	35
Ethylbenzene	0.100	0.09348		mg/Kg		93	70 - 130	3	35
Toluene	0.100	0.08898		mg/Kg		89	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1849		mg/Kg		92	70 - 130	4	35
o-Xylene	0.100	0.09101		mg/Kg		91	70 - 130	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

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

Lab Sample ID: MB 880-614/1-A
Matrix: Solid
Analysis Batch: 619

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 614

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/19/21 14:08	03/20/21 01:46	1

QC Sample Results

Client: ConocoPhillips Co.
Project/Site: Burton 35 #001 (10-21-21)

Job ID: 880-484-1
SDG: Lea County NM

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

Lab Sample ID: MB 880-614/1-A
Matrix: Solid
Analysis Batch: 619

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 614

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/19/21 14:08	03/20/21 01:46	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/19/21 14:08	03/20/21 01:46	1
Total TPH	<50.0	U	50.0		mg/Kg		03/19/21 14:08	03/20/21 01:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*117*		*70 - 130*	*03/19/21 14:08*	*03/20/21 01:46*	*1*
o-Terphenyl	*122*		*70 - 130*	*03/19/21 14:08*	*03/20/21 01:46*	*1*

Lab Sample ID: LCS 880-614/2-A
Matrix: Solid
Analysis Batch: 619

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 614

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1208		mg/Kg		121	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1136		mg/Kg		114	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*119*		*70 - 130*
o-Terphenyl	*113*		*70 - 130*

Lab Sample ID: LCSD 880-614/3-A
Matrix: Solid
Analysis Batch: 619

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 614

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1139		mg/Kg		114	70 - 130	6	20
Diesel Range Organics (Over C10-C28)			1000	1083		mg/Kg		108	70 - 130	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*116*		*70 - 130*
o-Terphenyl	*110*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-608/1-A
Matrix: Solid
Analysis Batch: 609

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			03/20/21 15:18	1

QC Sample Results

Client: ConocoPhillips Co.
Project/Site: Burton 35 #001 (10-21-21)

Job ID: 880-484-1
SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-608/2-A
Matrix: Solid
Analysis Batch: 609

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	252.8		mg/Kg		101	90 - 110		

Lab Sample ID: LCSD 880-608/3-A
Matrix: Solid
Analysis Batch: 609

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	253.0		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 880-484-1 MS
Matrix: Solid
Analysis Batch: 609

Client Sample ID: T-1 3'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	171		248	432.4		mg/Kg		105	90 - 110		

Lab Sample ID: 880-484-1 MSD
Matrix: Solid
Analysis Batch: 609

Client Sample ID: T-1 3'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	171		248	422.7		mg/Kg		102	90 - 110	2	20

Lab Sample ID: 880-484-11 MS
Matrix: Solid
Analysis Batch: 609

Client Sample ID: T-2 7'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	5.14		250	268.5		mg/Kg		105	90 - 110		

Lab Sample ID: 880-484-11 MSD
Matrix: Solid
Analysis Batch: 609

Client Sample ID: T-2 7'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	5.14		250	270.7		mg/Kg		106	90 - 110	1	20

QC Association Summary

Client: ConocoPhillips Co.
Project/Site: Burton 35 #001 (10-21-21)

Job ID: 880-484-1
SDG: Lea County NM

GC VOA

Prep Batch: 688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-484-1	T-1 3'	Total/NA	Solid	5035	
880-484-2	T-1 4'	Total/NA	Solid	5035	
880-484-3	T-1 5'	Total/NA	Solid	5035	
880-484-4	T-1 6'	Total/NA	Solid	5035	
880-484-6	T-8' (Refusal)	Total/NA	Solid	5035	
880-484-7	T-2 3'	Total/NA	Solid	5035	
880-484-8	T2 4'	Total/NA	Solid	5035	
880-484-9	T-2 5'	Total/NA	Solid	5035	
880-484-11	T-2 7'	Total/NA	Solid	5035	
MB 880-688/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-688/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-688/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-484-1	T-1 3'	Total/NA	Solid	8021B	688
880-484-2	T-1 4'	Total/NA	Solid	8021B	688
880-484-3	T-1 5'	Total/NA	Solid	8021B	688
880-484-4	T-1 6'	Total/NA	Solid	8021B	688
880-484-6	T-8' (Refusal)	Total/NA	Solid	8021B	688
880-484-7	T-2 3'	Total/NA	Solid	8021B	688
880-484-8	T2 4'	Total/NA	Solid	8021B	688
880-484-9	T-2 5'	Total/NA	Solid	8021B	688
880-484-11	T-2 7'	Total/NA	Solid	8021B	688
MB 880-688/5-A	Method Blank	Total/NA	Solid	8021B	688
LCS 880-688/1-A	Lab Control Sample	Total/NA	Solid	8021B	688
LCSD 880-688/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	688

Prep Batch: 785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-785/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-785/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-785/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-484-9	T-2 5'	Total/NA	Solid	5035	
880-484-11	T-2 7'	Total/NA	Solid	5035	
880-484-12	T-8 8' (Refusal)	Total/NA	Solid	5035	
MB 880-825/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-825/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-825/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-484-9	T-2 5'	Total/NA	Solid	8021B	825
880-484-11	T-2 7'	Total/NA	Solid	8021B	825
880-484-12	T-8 8' (Refusal)	Total/NA	Solid	8021B	825
MB 880-785/5-A	Method Blank	Total/NA	Solid	8021B	785
MB 880-825/5-A	Method Blank	Total/NA	Solid	8021B	825
LCS 880-785/1-A	Lab Control Sample	Total/NA	Solid	8021B	785

QC Association Summary

Client: ConocoPhillips Co.
Project/Site: Burton 35 #001 (10-21-21)

Job ID: 880-484-1
SDG: Lea County NM

GC VOA (Continued)

Analysis Batch: 827 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-825/1-A	Lab Control Sample	Total/NA	Solid	8021B	825
LCSD 880-785/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	785
LCSD 880-825/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	825

Analysis Batch: 830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-484-5	T-1 7'	Total/NA	Solid	8021B	841
880-484-10	T-2 6'	Total/NA	Solid	8021B	841
MB 880-841/5-A	Method Blank	Total/NA	Solid	8021B	841
LCS 880-841/1-A	Lab Control Sample	Total/NA	Solid	8021B	841
LCSD 880-841/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	841

Prep Batch: 841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-484-5	T-1 7'	Total/NA	Solid	5035	
880-484-10	T-2 6'	Total/NA	Solid	5035	
MB 880-841/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-841/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-841/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

GC Semi VOA

Prep Batch: 614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-484-1	T-1 3'	Total/NA	Solid	8015NM Prep	
880-484-2	T-1 4'	Total/NA	Solid	8015NM Prep	
880-484-3	T-1 5'	Total/NA	Solid	8015NM Prep	
880-484-4	T-1 6'	Total/NA	Solid	8015NM Prep	
880-484-5	T-1 7'	Total/NA	Solid	8015NM Prep	
880-484-6	T-8' (Refusal)	Total/NA	Solid	8015NM Prep	
880-484-7	T-2 3'	Total/NA	Solid	8015NM Prep	
880-484-8	T2 4'	Total/NA	Solid	8015NM Prep	
880-484-9	T-2 5'	Total/NA	Solid	8015NM Prep	
880-484-10	T-2 6'	Total/NA	Solid	8015NM Prep	
880-484-11	T-2 7'	Total/NA	Solid	8015NM Prep	
880-484-12	T-8 8' (Refusal)	Total/NA	Solid	8015NM Prep	
MB 880-614/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-614/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-614/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-484-1	T-1 3'	Total/NA	Solid	8015B NM	614
880-484-2	T-1 4'	Total/NA	Solid	8015B NM	614
880-484-3	T-1 5'	Total/NA	Solid	8015B NM	614
880-484-4	T-1 6'	Total/NA	Solid	8015B NM	614
880-484-5	T-1 7'	Total/NA	Solid	8015B NM	614
880-484-6	T-8' (Refusal)	Total/NA	Solid	8015B NM	614
880-484-7	T-2 3'	Total/NA	Solid	8015B NM	614
880-484-8	T2 4'	Total/NA	Solid	8015B NM	614
880-484-9	T-2 5'	Total/NA	Solid	8015B NM	614

QC Association Summary

Client: ConocoPhillips Co.
Project/Site: Burton 35 #001 (10-21-21)

Job ID: 880-484-1
SDG: Lea County NM

GC Semi VOA (Continued)

Analysis Batch: 619 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-484-10	T-2 6'	Total/NA	Solid	8015B NM	614
880-484-11	T-2 7'	Total/NA	Solid	8015B NM	614
880-484-12	T-8 8' (Refusal)	Total/NA	Solid	8015B NM	614
MB 880-614/1-A	Method Blank	Total/NA	Solid	8015B NM	614
LCS 880-614/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	614
LCSD 880-614/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	614

HPLC/IC

Leach Batch: 608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-484-1	T-1 3'	Soluble	Solid	DI Leach	
880-484-2	T-1 4'	Soluble	Solid	DI Leach	
880-484-3	T-1 5'	Soluble	Solid	DI Leach	
880-484-4	T-1 6'	Soluble	Solid	DI Leach	
880-484-5	T-1 7'	Soluble	Solid	DI Leach	
880-484-6	T-8' (Refusal)	Soluble	Solid	DI Leach	
880-484-7	T-2 3'	Soluble	Solid	DI Leach	
880-484-8	T2 4'	Soluble	Solid	DI Leach	
880-484-9	T-2 5'	Soluble	Solid	DI Leach	
880-484-10	T-2 6'	Soluble	Solid	DI Leach	
880-484-11	T-2 7'	Soluble	Solid	DI Leach	
880-484-12	T-8 8' (Refusal)	Soluble	Solid	DI Leach	
MB 880-608/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-608/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-608/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-484-1 MS	T-1 3'	Soluble	Solid	DI Leach	
880-484-1 MSD	T-1 3'	Soluble	Solid	DI Leach	
880-484-11 MS	T-2 7'	Soluble	Solid	DI Leach	
880-484-11 MSD	T-2 7'	Soluble	Solid	DI Leach	

Analysis Batch: 609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-484-1	T-1 3'	Soluble	Solid	300.0	608
880-484-2	T-1 4'	Soluble	Solid	300.0	608
880-484-3	T-1 5'	Soluble	Solid	300.0	608
880-484-4	T-1 6'	Soluble	Solid	300.0	608
880-484-5	T-1 7'	Soluble	Solid	300.0	608
880-484-6	T-8' (Refusal)	Soluble	Solid	300.0	608
880-484-7	T-2 3'	Soluble	Solid	300.0	608
880-484-8	T2 4'	Soluble	Solid	300.0	608
880-484-9	T-2 5'	Soluble	Solid	300.0	608
880-484-10	T-2 6'	Soluble	Solid	300.0	608
880-484-11	T-2 7'	Soluble	Solid	300.0	608
880-484-12	T-8 8' (Refusal)	Soluble	Solid	300.0	608
MB 880-608/1-A	Method Blank	Soluble	Solid	300.0	608
LCS 880-608/2-A	Lab Control Sample	Soluble	Solid	300.0	608
LCSD 880-608/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	608
880-484-1 MS	T-1 3'	Soluble	Solid	300.0	608
880-484-1 MSD	T-1 3'	Soluble	Solid	300.0	608
880-484-11 MS	T-2 7'	Soluble	Solid	300.0	608

QC Association Summary

Client: ConocoPhillips Co.
Project/Site: Burton 35 #001 (10-21-21)

Job ID: 880-484-1
SDG: Lea County NM

HPLC/IC (Continued)

Analysis Batch: 609 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-484-11 MSD	T-2 7'	Soluble	Solid	300.0	608

Lab Chronicle

Client: ConocoPhillips Co.
Project/Site: Burton 35 #001 (10-21-21)

Job ID: 880-484-1
SDG: Lea County NM

Client Sample ID: T-1 3'

Lab Sample ID: 880-484-1
Matrix: Solid
Date Collected: 03/18/21 00:00
Date Received: 03/19/21 09:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			688	03/22/21 11:15	MR	XM
Total/NA	Analysis	8021B		1	734	03/23/21 11:48	MR	XM
Total/NA	Prep	8015NM Prep			614	03/19/21 14:08	AJ	XM
Total/NA	Analysis	8015B NM		1	619	03/20/21 05:58	AM	XM
Soluble	Leach	DI Leach			608	03/19/21 12:37	CH	XM
Soluble	Analysis	300.0		1	609	03/20/21 15:34	CH	XM

Client Sample ID: T-1 4'

Lab Sample ID: 880-484-2
Matrix: Solid
Date Collected: 03/18/21 00:00
Date Received: 03/19/21 09:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			688	03/22/21 11:15	MR	XM
Total/NA	Analysis	8021B		1	734	03/23/21 12:09	MR	XM
Total/NA	Prep	8015NM Prep			614	03/19/21 14:08	AJ	XM
Total/NA	Analysis	8015B NM		1	619	03/20/21 06:19	AM	XM
Soluble	Leach	DI Leach			608	03/19/21 12:37	CH	XM
Soluble	Analysis	300.0		1	609	03/20/21 15:51	CH	XM

Client Sample ID: T-1 5'

Lab Sample ID: 880-484-3
Matrix: Solid
Date Collected: 03/18/21 00:00
Date Received: 03/19/21 09:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			688	03/22/21 11:15	MR	XM
Total/NA	Analysis	8021B		1	734	03/23/21 12:29	MR	XM
Total/NA	Prep	8015NM Prep			614	03/19/21 14:08	AJ	XM
Total/NA	Analysis	8015B NM		1	619	03/20/21 06:40	AM	XM
Soluble	Leach	DI Leach			608	03/19/21 12:37	CH	XM
Soluble	Analysis	300.0		1	609	03/20/21 15:56	CH	XM

Client Sample ID: T-1 6'

Lab Sample ID: 880-484-4
Matrix: Solid
Date Collected: 03/18/21 00:00
Date Received: 03/19/21 09:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			688	03/22/21 11:15	MR	XM
Total/NA	Analysis	8021B		1	734	03/23/21 12:50	MR	XM
Total/NA	Prep	8015NM Prep			614	03/19/21 14:08	AJ	XM
Total/NA	Analysis	8015B NM		1	619	03/20/21 07:23	AM	XM
Soluble	Leach	DI Leach			608	03/19/21 12:37	CH	XM
Soluble	Analysis	300.0		1	609	03/20/21 16:02	CH	XM

Lab Chronicle

Client: ConocoPhillips Co.
Project/Site: Burton 35 #001 (10-21-21)

Job ID: 880-484-1
SDG: Lea County NM

Client Sample ID: T-1 7'

Lab Sample ID: 880-484-5
Matrix: Solid
Date Collected: 03/18/21 00:00
Date Received: 03/19/21 09:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			841	03/25/21 10:12	KL	XM
Total/NA	Analysis	8021B		1	830	03/25/21 19:29	KL	XM
Total/NA	Prep	8015NM Prep			614	03/19/21 14:08	AJ	XM
Total/NA	Analysis	8015B NM		1	619	03/20/21 15:01	AM	XM
Soluble	Leach	DI Leach			608	03/19/21 12:37	CH	XM
Soluble	Analysis	300.0		1	609	03/20/21 16:07	CH	XM

Client Sample ID: T-8' (Refusal)

Lab Sample ID: 880-484-6
Matrix: Solid
Date Collected: 03/18/21 00:00
Date Received: 03/19/21 09:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			688	03/22/21 11:15	MR	XM
Total/NA	Analysis	8021B		1	734	03/23/21 13:31	MR	XM
Total/NA	Prep	8015NM Prep			614	03/19/21 14:08	AJ	XM
Total/NA	Analysis	8015B NM		1	619	03/20/21 15:22	AM	XM
Soluble	Leach	DI Leach			608	03/19/21 12:37	CH	XM
Soluble	Analysis	300.0		1	609	03/20/21 16:24	CH	XM

Client Sample ID: T-2 3'

Lab Sample ID: 880-484-7
Matrix: Solid
Date Collected: 03/18/21 00:00
Date Received: 03/19/21 09:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			688	03/22/21 11:15	MR	XM
Total/NA	Analysis	8021B		1	734	03/23/21 13:51	MR	XM
Total/NA	Prep	8015NM Prep			614	03/19/21 14:08	AJ	XM
Total/NA	Analysis	8015B NM		1	619	03/20/21 08:28	AM	XM
Soluble	Leach	DI Leach			608	03/19/21 12:37	CH	XM
Soluble	Analysis	300.0		1	609	03/20/21 16:29	CH	XM

Client Sample ID: T2 4'

Lab Sample ID: 880-484-8
Matrix: Solid
Date Collected: 03/18/21 00:00
Date Received: 03/19/21 09:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			688	03/22/21 11:15	MR	XM
Total/NA	Analysis	8021B		1	734	03/23/21 14:11	MR	XM
Total/NA	Prep	8015NM Prep			614	03/19/21 14:08	AJ	XM
Total/NA	Analysis	8015B NM		1	619	03/20/21 08:49	AM	XM
Soluble	Leach	DI Leach			608	03/19/21 12:37	CH	XM
Soluble	Analysis	300.0		1	609	03/20/21 16:35	CH	XM

Lab Chronicle

Client: ConocoPhillips Co.
Project/Site: Burton 35 #001 (10-21-21)

Job ID: 880-484-1
SDG: Lea County NM

Client Sample ID: T-2 5'

Lab Sample ID: 880-484-9
Matrix: Solid
Date Collected: 03/18/21 00:00
Date Received: 03/19/21 09:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			825	03/24/21 18:12	KL	XM
Total/NA	Analysis	8021B		1	827	03/25/21 15:31	PXS	XM
Total/NA	Prep	5035			688	03/22/21 11:15	MR	XM
Total/NA	Analysis	8021B		1	734	03/23/21 14:58	MR	XM
Total/NA	Prep	8015NM Prep			614	03/19/21 14:08	AJ	XM
Total/NA	Analysis	8015B NM		1	619	03/20/21 09:10	AM	XM
Soluble	Leach	DI Leach			608	03/19/21 12:37	CH	XM
Soluble	Analysis	300.0		1	609	03/20/21 16:41	CH	XM

Client Sample ID: T-2 6'

Lab Sample ID: 880-484-10
Matrix: Solid
Date Collected: 03/18/21 00:00
Date Received: 03/19/21 09:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			841	03/25/21 10:12	KL	XM
Total/NA	Analysis	8021B		1	830	03/25/21 20:51	KL	XM
Total/NA	Prep	8015NM Prep			614	03/19/21 14:08	AJ	XM
Total/NA	Analysis	8015B NM		1	619	03/20/21 09:31	AM	XM
Soluble	Leach	DI Leach			608	03/19/21 12:37	CH	XM
Soluble	Analysis	300.0		1	609	03/20/21 16:46	CH	XM

Client Sample ID: T-2 7'

Lab Sample ID: 880-484-11
Matrix: Solid
Date Collected: 03/18/21 00:00
Date Received: 03/19/21 09:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			825	03/24/21 18:12	KL	XM
Total/NA	Analysis	8021B		1	827	03/25/21 16:12	PXS	XM
Total/NA	Prep	5035			688	03/22/21 11:15	MR	XM
Total/NA	Analysis	8021B		1	734	03/23/21 15:47	MR	XM
Total/NA	Prep	8015NM Prep			614	03/19/21 14:08	AJ	XM
Total/NA	Analysis	8015B NM		1	619	03/20/21 15:43	AM	XM
Soluble	Leach	DI Leach			608	03/19/21 12:37	CH	XM
Soluble	Analysis	300.0		1	609	03/20/21 16:52	CH	XM

Client Sample ID: T-8 8' (Refusal)

Lab Sample ID: 880-484-12
Matrix: Solid
Date Collected: 03/18/21 00:00
Date Received: 03/19/21 09:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			825	03/24/21 18:12	KL	XM
Total/NA	Analysis	8021B		1	827	03/25/21 16:33	PXS	XM
Total/NA	Prep	8015NM Prep			614	03/19/21 14:08	AJ	XM
Total/NA	Analysis	8015B NM		1	619	03/20/21 10:14	AM	XM

Lab Chronicle

Client: ConocoPhillips Co.
Job ID: 880-484-1
Project/Site: Burton 35 #001 (10-21-21)
SDG: Lea County NM

Client Sample ID: T-8 8' (Refusal)
Lab Sample ID: 880-484-12

Date Collected: 03/18/21 00:00
Matrix: Solid
Date Received: 03/19/21 09:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			608	03/19/21 12:37	CH	XM
Soluble	Analysis	300.0		1	609	03/20/21 17:08	CH	XM

Laboratory References:

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

Accreditation/Certification Summary

Client: ConocoPhillips Co.
Project/Site: Burton 35 #001 (10-21-21)

Job ID: 880-484-1
SDG: Lea County NM

Laboratory: Eurofins Xenco, Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-21

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
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

Method Summary

Client: ConocoPhillips Co.
Project/Site: Burton 35 #001 (10-21-21)

Job ID: 880-484-1
SDG: Lea County NM

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

Protocol References:

ASTM = ASTM International

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

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

Laboratory References:

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

Sample Summary

Client: ConocoPhillips Co.
Project/Site: Burton 35 #001 (10-21-21)

Job ID: 880-484-1
SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
880-484-1	T-1 3'	Solid	03/18/21 00:00	03/19/21 09:31	
880-484-2	T-1 4'	Solid	03/18/21 00:00	03/19/21 09:31	
880-484-3	T-1 5'	Solid	03/18/21 00:00	03/19/21 09:31	
880-484-4	T-1 6'	Solid	03/18/21 00:00	03/19/21 09:31	
880-484-5	T-1 7'	Solid	03/18/21 00:00	03/19/21 09:31	
880-484-6	T-8' (Refusal)	Solid	03/18/21 00:00	03/19/21 09:31	
880-484-7	T-2 3'	Solid	03/18/21 00:00	03/19/21 09:31	
880-484-8	T2 4'	Solid	03/18/21 00:00	03/19/21 09:31	
880-484-9	T-2 5'	Solid	03/18/21 00:00	03/19/21 09:31	
880-484-10	T-2 6'	Solid	03/18/21 00:00	03/19/21 09:31	
880-484-11	T-2 7'	Solid	03/18/21 00:00	03/19/21 09:31	
880-484-12	T-8 8' (Refusal)	Solid	03/18/21 00:00	03/19/21 09:31	

Analysis Request of Chain of Custody Record

CONCHO

One Concho Center/600/Illinois Avenue/Midland, Texas
Tel (432) 683-7443

Client Name:	COG	**Site Manager:**	Ike Tavarez ike tavarez@conocophillips com Robert Grubbs Jr robert.d.grubbs@conocophillips com
Project Name:	Burton 35 #001 (10-21-21)		
Project Location (county, state)	Lea County, New Mexico	**Project #:**	
Invoice to:	COG		
Receiving Laboratory:	Eurofins Xenco	**Sampler Signature:**	Robert Grubbs Jr
Comments			

880-484 COC

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2021 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)	TPH TX1005 (Ext to C35)	BTEX 8021B	TPH 8015M (GRO - DRO - MRO)	Chloride	Hold
	T-1 3'	3/18/2021			X				X		1			X	X	X	
	T-1 4'	3/18/2021			X				X		1			X	X	X	
	T-1 5'	3/18/2021			X				X		1			X	X	X	
	T-1 6'	3/18/2021			X				X		1			X	X	X	
	T-1 7'	3/18/2021			X				X		1			X	X	X	
	T-1 8' (Refusal)	3/18/2021			X				X		1			X	X	X	
	T-2 3'	3/18/2021			X				X		1			X	X	X	
	T-2 4'	3/18/2021			X				X		1			X	X	X	
	T-2 5'	3/18/2021			X				X		1			X	X	X	
	T-2 6'	3/18/2021			X				X		1			X	X	X	

Relinquished by	Date	Time	Received by	Date	Time
Robert Grubbs Jr.	3/19/2021	0731	[signature]	3/19/21	9 31
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by	Date:	Time:	Received by	Date:	Time

LAB USE ONLY

Sample Temperature: 0 1

REMARKS:

X RUSH Same Day **24 hr** 48 hr 72 hr

Rush Charges Authorized

Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking # _____

ORIGINAL COPY

Analysis Request of Chain of Custody Record

CONCHO

One Concho Center/600/Illinois Avenue/Midland, Texas
Tel (432) 683-7443

Loc: 880
484

3/29/2021

Client Name:	COG	**Site Manager:**	Ike Tavarez ike tavarez@conocophillips com Robert Grubbs Jr robert.d grubbs@conocophillips.com
Project Name:	Burton 35 #001 (10-21-21)		
Project Location (county, state)	Lea County, New Mexico	**Project #:**	
Invoice to	COG		
Receiving Laboratory:	Eurofins Xenco	**Sampler Signature:**	Robert Grubbs Jr
Comments.			

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2021 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	# CONTAINERS	FILTERED (Y/N)	TPH TX1005 (Ext to C35)	BTEX 8021B	TPH 8015M (GRO - DRO - MRO)	Chloride	Hold
	T-2 7'	3/18/2021			X			X	1			X	X	X	
	T-2 8' (Refusal)	3/18/2021			X			X	1			X	X	X	

Relinquished by:	Date:	Time	Received by:	Date	Time
Robert Grubbs Jr.	3/19/2021	0931	[signature]	3/19/21	9:31
Relinquished by:	Date	Time:	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time

LAB USE ONLY	REMARKS:	
Sample Temperature	X	RUSH Same Day **24 hr** 48 hr 72 hr
01		Rush Charges Authorized
		Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

Login Sample Receipt Checklist

Client: ConocoPhillips Co.

Job Number: 880-484-1
SDG Number: Lea County NM

Login Number: 484
List Number: 1
Creator: Teel, Brianna

List Source: Eurofins Midland

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 America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-607-1
Laboratory Sample Delivery Group: Lea County NM
Client Project/Site: COG-Burton 35 #001 (10-21-21)

For:
ConocoPhillips Co.
1401 Commerce Drive
Carlsbad, New Mexico 882200

Attn: Robert Grubbs

JKramer

Authorized for release by:
3/26/2021 4:45:36 PM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

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

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

Client: ConocoPhillips Co.
Project/Site: COG-Burton 35 #001 (10-21-21)

Laboratory Job ID: 880-607-1
SDG: Lea County NM

Table of Contents

Definitions/Glossary

Client: ConocoPhillips Co. Job ID: 880-607-1
Project/Site: COG-Burton 35 #001 (10-21-21) SDG: Lea County NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
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.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
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: ConocoPhillips Co.
Project/Site: COG-Burton 35 #001 (10-21-21)

Job ID: 880-607-1
SDG: Lea County NM

Job ID: 880-607-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative
880-607-1

Receipt
The samples were received on 3/23/2021 4:00 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 5.3°C

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-804 and analytical batch 880-806 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-863 and analytical batch 880-864 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Detection Summary

Client: ConocoPhillips Co.
Project/Site: COG-Burton 35 #001 (10-21-21)

Job ID: 880-607-1
SDG: Lea County NM

Client Sample ID: CS-1 South — Lab Sample ID: 880-607-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	9.07	F1	4.96		mg/Kg	1		300.0	Soluble

Client Sample ID: CS-1 East — Lab Sample ID: 880-607-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	12.0		5.04		mg/Kg	1		300.0	Soluble

Client Sample ID: CS-1 West — Lab Sample ID: 880-607-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	6.91		4.98		mg/Kg	1		300.0	Soluble

Client Sample ID: CS-1 Bottom Hole 6' — Lab Sample ID: 880-607-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	6.03		4.99		mg/Kg	1		300.0	Soluble

Client Sample ID: CS-2 North — Lab Sample ID: 880-607-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	5.79		5.00		mg/Kg	1		300.0	Soluble

Client Sample ID: CS-2 East — Lab Sample ID: 880-607-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	12.7	F1	4.96		mg/Kg	1		300.0	Soluble

Client Sample ID: CS-2 West — Lab Sample ID: 880-607-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.47		5.04		mg/Kg	1		300.0	Soluble

Client Sample ID: CS-2 Bottom Hole 6' — Lab Sample ID: 880-607-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	14.7		4.98		mg/Kg	1		300.0	Soluble

Client Sample ID: CS-3 North — Lab Sample ID: 880-607-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.13		4.99		mg/Kg	1		300.0	Soluble

Client Sample ID: CS-3 South — Lab Sample ID: 880-607-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	6.66		5.00		mg/Kg	1		300.0	Soluble

Client Sample ID: CS-3 East — Lab Sample ID: 880-607-11

No Detections.

Client Sample ID: CS-3 Bottom Hole 2' — Lab Sample ID: 880-607-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	5.23		5.05		mg/Kg	1		300.0	Soluble

This Detection Summary does not include radiochemical test results.

Eurofins Xenco, Midland

Detection Summary

Client: ConocoPhillips Co.
Project/Site: COG-Burton 35 #001 (10-21-21)

Job ID: 880-607-1
SDG: Lea County NM

Client Sample ID: CS-4 North — Lab Sample ID: 880-607-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.83		4.98		mg/Kg	1		300.0	Soluble

Client Sample ID: CS-4 South — Lab Sample ID: 880-607-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	11.3		4.99		mg/Kg	1		300.0	Soluble

Client Sample ID: CS-4 East — Lab Sample ID: 880-607-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.52		4.95		mg/Kg	1		300.0	Soluble

Client Sample ID: CS-4 West — Lab Sample ID: 880-607-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.57	F1	4.95		mg/Kg	1		300.0	Soluble

Client Sample ID: CS-4 Bottom Hole 2' — Lab Sample ID: 880-607-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.99		4.96		mg/Kg	1		300.0	Soluble

This Detection Summary does not include radiochemical test results.

Eurofins Xenco, Midland

Client Sample Results

Client: ConocoPhillips Co.
Project/Site: COG-Burton 35 #001 (10-21-21)

Job ID: 880-607-1
SDG: Lea County NM

Client Sample ID: CS-1 South

Lab Sample ID: 880-607-1
Matrix: Solid
Date Collected: 03/22/21 00:00
Date Received: 03/23/21 16:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/23/21 16:47	03/24/21 09:47	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/23/21 16:47	03/24/21 09:47	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/23/21 16:47	03/24/21 09:47	1
Total BTEX	<0.00202	U	0.00202		mg/Kg		03/23/21 16:47	03/24/21 09:47	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/23/21 16:47	03/24/21 09:47	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/23/21 16:47	03/24/21 09:47	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/23/21 16:47	03/24/21 09:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*03/23/21 16:47*	*03/24/21 09:47*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*03/23/21 16:47*	*03/24/21 09:47*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1 F2	50.0		mg/Kg		03/23/21 16:46	03/24/21 00:18	1
Total TPH	<50.0	U F1 F2	50.0		mg/Kg		03/23/21 16:46	03/24/21 00:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U F1 F2	50.0		mg/Kg		03/23/21 16:46	03/24/21 00:18	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/23/21 16:46	03/24/21 00:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*65*	*S1-*	*70 - 130*	*03/23/21 16:46*	*03/24/21 00:18*	*1*
o-Terphenyl	*63*	*S1-*	*70 - 130*	*03/23/21 16:46*	*03/24/21 00:18*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9.07**	**F1**	4.96		mg/Kg			03/24/21 15:38	1

Client Sample ID: CS-1 East

Lab Sample ID: 880-607-2
Matrix: Solid
Date Collected: 03/18/21 00:00
Date Received: 03/23/21 16:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/23/21 16:47	03/24/21 10:08	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/23/21 16:47	03/24/21 10:08	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/23/21 16:47	03/24/21 10:08	1
Total BTEX	<0.00202	U	0.00202		mg/Kg		03/23/21 16:47	03/24/21 10:08	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/23/21 16:47	03/24/21 10:08	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/23/21 16:47	03/24/21 10:08	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/23/21 16:47	03/24/21 10:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*03/23/21 16:47*	*03/24/21 10:08*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*03/23/21 16:47*	*03/24/21 10:08*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		03/23/21 16:46	03/24/21 01:29	1
Total TPH	<50.3	U	50.3		mg/Kg		03/23/21 16:46	03/24/21 01:29	1

Client Sample Results

Client: ConocoPhillips Co.
Project/Site: COG-Burton 35 #001 (10-21-21)

Job ID: 880-607-1
SDG: Lea County NM

Client Sample ID: CS-1 East

Lab Sample ID: 880-607-2
Date Collected: 03/18/21 00:00
Matrix: Solid
Date Received: 03/23/21 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		03/23/21 16:46	03/24/21 01:29	1
Oll Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		03/23/21 16:46	03/24/21 01:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*03/23/21 16:46*	*03/24/21 01:29*	*1*
o-Terphenyl	*74*		*70 - 130*	*03/23/21 16:46*	*03/24/21 01:29*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12.0**		5.04		mg/Kg			03/24/21 15:54	1

Client Sample ID: CS-1 West

Lab Sample ID: 880-607-3
Date Collected: 03/22/21 00:00
Matrix: Solid
Date Received: 03/23/21 16:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/23/21 16:47	03/24/21 10:29	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/23/21 16:47	03/24/21 10:29	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/23/21 16:47	03/24/21 10:29	1
Total BTEX	<0.00199	U	0.00199		mg/Kg		03/23/21 16:47	03/24/21 10:29	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/23/21 16:47	03/24/21 10:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/23/21 16:47	03/24/21 10:29	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/23/21 16:47	03/24/21 10:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*03/23/21 16:47*	*03/24/21 10:29*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*03/23/21 16:47*	*03/24/21 10:29*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/23/21 16:46	03/24/21 01:50	1
Total TPH	<49.9	U	49.9		mg/Kg		03/23/21 16:46	03/24/21 01:50	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/23/21 16:46	03/24/21 01:50	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/23/21 16:46	03/24/21 01:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*75*		*70 - 130*	*03/23/21 16:46*	*03/24/21 01:50*	*1*
o-Terphenyl	*71*		*70 - 130*	*03/23/21 16:46*	*03/24/21 01:50*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.91**		4.98		mg/Kg			03/24/21 15:59	1

Client Sample Results

Client: ConocoPhillips Co.
Project/Site: COG-Burton 35 #001 (10-21-21)

Job ID: 880-607-1
SDG: Lea County NM

Client Sample ID: CS-1 Bottom Hole 6'

Lab Sample ID: 880-607-4
Matrix: Solid
Date Collected: 03/22/21 00:00
Date Received: 03/23/21 16:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/23/21 16:47	03/24/21 10:49	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/23/21 16:47	03/24/21 10:49	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/23/21 16:47	03/24/21 10:49	1
Total BTEX	<0.00199	U	0.00199		mg/Kg		03/23/21 16:47	03/24/21 10:49	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/23/21 16:47	03/24/21 10:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/23/21 16:47	03/24/21 10:49	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/23/21 16:47	03/24/21 10:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*03/23/21 16:47*	*03/24/21 10:49*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*03/23/21 16:47*	*03/24/21 10:49*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/23/21 16:46	03/24/21 02:12	1
Total TPH	<49.9	U	49.9		mg/Kg		03/23/21 16:46	03/24/21 02:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/23/21 16:46	03/24/21 02:12	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/23/21 16:46	03/24/21 02:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*68*	*S1-*	*70 - 130*	*03/23/21 16:46*	*03/24/21 02:12*	*1*
o-Terphenyl	*64*	*S1-*	*70 - 130*	*03/23/21 16:46*	*03/24/21 02:12*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.03**		4.99		mg/Kg			03/24/21 16:04	1

Client Sample ID: CS-2 North

Lab Sample ID: 880-607-5
Matrix: Solid
Date Collected: 03/22/21 00:00
Date Received: 03/23/21 16:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/23/21 16:47	03/24/21 11:10	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/23/21 16:47	03/24/21 11:10	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/23/21 16:47	03/24/21 11:10	1
Total BTEX	<0.00202	U	0.00202		mg/Kg		03/23/21 16:47	03/24/21 11:10	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/23/21 16:47	03/24/21 11:10	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		03/23/21 16:47	03/24/21 11:10	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/23/21 16:47	03/24/21 11:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*03/23/21 16:47*	*03/24/21 11:10*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*03/23/21 16:47*	*03/24/21 11:10*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		03/23/21 16:46	03/24/21 02:33	1
Total TPH	<50.1	U	50.1		mg/Kg		03/23/21 16:46	03/24/21 02:33	1

Eurofins Xenco, Midland

Client Sample Results

Client: ConocoPhillips Co.
Project/Site: COG-Burton 35 #001 (10-21-21)

Job ID: 880-607-1
SDG: Lea County NM

Client Sample ID: CS-2 North

Lab Sample ID: 880-607-5
Matrix: Solid
Date Collected: 03/22/21 00:00
Date Received: 03/23/21 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		03/23/21 16:46	03/24/21 02:33	1
Oll Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		03/23/21 16:46	03/24/21 02:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*66*	*S1-*	*70 - 130*	*03/23/21 16:46*	*03/24/21 02:33*	*1*
o-Terphenyl	*62*	*S1-*	*70 - 130*	*03/23/21 16:46*	*03/24/21 02:33*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.79**		5.00		mg/Kg			03/24/21 16:10	1

Client Sample ID: CS-2 East

Lab Sample ID: 880-607-6
Matrix: Solid
Date Collected: 03/22/21 00:00
Date Received: 03/23/21 16:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/23/21 16:47	03/24/21 11:31	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/23/21 16:47	03/24/21 11:31	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/23/21 16:47	03/24/21 11:31	1
Total BTEX	<0.00199	U	0.00199		mg/Kg		03/23/21 16:47	03/24/21 11:31	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/23/21 16:47	03/24/21 11:31	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/23/21 16:47	03/24/21 11:31	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/23/21 16:47	03/24/21 11:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*03/23/21 16:47*	*03/24/21 11:31*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*03/23/21 16:47*	*03/24/21 11:31*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/23/21 16:46	03/24/21 02:55	1
Total TPH	<49.9	U	49.9		mg/Kg		03/23/21 16:46	03/24/21 02:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/23/21 16:46	03/24/21 02:55	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/23/21 16:46	03/24/21 02:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*60*	*S1-*	*70 - 130*	*03/23/21 16:46*	*03/24/21 02:55*	*1*
o-Terphenyl	*59*	*S1-*	*70 - 130*	*03/23/21 16:46*	*03/24/21 02:55*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12.7**	**F1**	4.96		mg/Kg			03/25/21 16:26	1

Client Sample Results

Client: ConocoPhillips Co.
Project/Site: COG-Burton 35 #001 (10-21-21)

Job ID: 880-607-1
SDG: Lea County NM

Client Sample ID: CS-2 West

Lab Sample ID: 880-607-7
Matrix: Solid
Date Collected: 03/22/21 00:00
Date Received: 03/23/21 16:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/23/21 16:47	03/24/21 11:52	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/23/21 16:47	03/24/21 11:52	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/23/21 16:47	03/24/21 11:52	1
Total BTEX	<0.00198	U	0.00198		mg/Kg		03/23/21 16:47	03/24/21 11:52	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/23/21 16:47	03/24/21 11:52	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/23/21 16:47	03/24/21 11:52	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/23/21 16:47	03/24/21 11:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*03/23/21 16:47*	*03/24/21 11:52*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*03/23/21 16:47*	*03/24/21 11:52*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		03/23/21 16:46	03/24/21 03:16	1
Total TPH	<49.8	U	49.8		mg/Kg		03/23/21 16:46	03/24/21 03:16	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/23/21 16:46	03/24/21 03:16	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/23/21 16:46	03/24/21 03:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*03/23/21 16:46*	*03/24/21 03:16*	*1*
o-Terphenyl	*70*		*70 - 130*	*03/23/21 16:46*	*03/24/21 03:16*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.47**		5.04		mg/Kg			03/25/21 16:43	1

Client Sample ID: CS-2 Bottom Hole 6'

Lab Sample ID: 880-607-8
Matrix: Solid
Date Collected: 03/22/21 00:00
Date Received: 03/23/21 16:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/23/21 16:47	03/24/21 14:18	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/23/21 16:47	03/24/21 14:18	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/23/21 16:47	03/24/21 14:18	1
Total BTEX	<0.00201	U	0.00201		mg/Kg		03/23/21 16:47	03/24/21 14:18	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/23/21 16:47	03/24/21 14:18	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/23/21 16:47	03/24/21 14:18	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/23/21 16:47	03/24/21 14:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*03/23/21 16:47*	*03/24/21 14:18*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*03/23/21 16:47*	*03/24/21 14:18*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/23/21 16:46	03/24/21 03:38	1
Total TPH	<49.9	U	49.9		mg/Kg		03/23/21 16:46	03/24/21 03:38	1

Eurofins Xenco, Midland

Client Sample Results

Client: ConocoPhillips Co.
Project/Site: COG-Burton 35 #001 (10-21-21)

Job ID: 880-607-1
SDG: Lea County NM

Client Sample ID: CS-2 Bottom Hole 6'

Lab Sample ID: 880-607-8
Matrix: Solid
Date Collected: 03/22/21 00:00
Date Received: 03/23/21 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/23/21 16:46	03/24/21 03:38	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/23/21 16:46	03/24/21 03:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*69*	*S1-*	*70 - 130*	*03/23/21 16:46*	*03/24/21 03:38*	*1*
o-Terphenyl	*67*	*S1-*	*70 - 130*	*03/23/21 16:46*	*03/24/21 03:38*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**14.7**		4.98		mg/Kg			03/25/21 16:48	1

Client Sample ID: CS-3 North

Lab Sample ID: 880-607-9
Matrix: Solid
Date Collected: 03/22/21 00:00
Date Received: 03/23/21 16:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/23/21 16:47	03/24/21 14:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/23/21 16:47	03/24/21 14:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/23/21 16:47	03/24/21 14:38	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/23/21 16:47	03/24/21 14:38	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/23/21 16:47	03/24/21 14:38	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/23/21 16:47	03/24/21 14:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/23/21 16:47	03/24/21 14:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*03/23/21 16:47*	*03/24/21 14:38*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*03/23/21 16:47*	*03/24/21 14:38*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		03/23/21 16:46	03/24/21 03:59	1
Total TPH	<49.7	U	49.7		mg/Kg		03/23/21 16:46	03/24/21 03:59	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		03/23/21 16:46	03/24/21 03:59	1
Oll Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		03/23/21 16:46	03/24/21 03:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*65*	*S1-*	*70 - 130*	*03/23/21 16:46*	*03/24/21 03:59*	*1*
o-Terphenyl	*62*	*S1-*	*70 - 130*	*03/23/21 16:46*	*03/24/21 03:59*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.13**		4.99		mg/Kg			03/25/21 16:54	1

Client Sample Results

Client: ConocoPhillips Co.
Project/Site: COG-Burton 35 #001 (10-21-21)

Job ID: 880-607-1
SDG: Lea County NM

Client Sample ID: CS-3 South

Lab Sample ID: 880-607-10
Matrix: Solid
Date Collected: 03/22/21 00:00
Date Received: 03/23/21 16:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/23/21 16:47	03/24/21 14:59	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/23/21 16:47	03/24/21 14:59	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/23/21 16:47	03/24/21 14:59	1
Total BTEX	<0.00201	U	0.00201		mg/Kg		03/23/21 16:47	03/24/21 14:59	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/23/21 16:47	03/24/21 14:59	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/23/21 16:47	03/24/21 14:59	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/23/21 16:47	03/24/21 14:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/23/21 16:47*	*03/24/21 14:59*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*03/23/21 16:47*	*03/24/21 14:59*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/23/21 16:46	03/24/21 04:20	1
Total TPH	<49.9	U	49.9		mg/Kg		03/23/21 16:46	03/24/21 04:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/23/21 16:46	03/24/21 04:20	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/23/21 16:46	03/24/21 04:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*42*	*S1-*	*70 - 130*	*03/23/21 16:46*	*03/24/21 04:20*	*1*
o-Terphenyl	*38*	*S1-*	*70 - 130*	*03/23/21 16:46*	*03/24/21 04:20*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.66**		5.00		mg/Kg			03/25/21 16:59	1

Client Sample ID: CS-3 East

Lab Sample ID: 880-607-11
Matrix: Solid
Date Collected: 03/22/21 00:00
Date Received: 03/23/21 16:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/24/21 18:12	03/25/21 10:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/24/21 18:12	03/25/21 10:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/24/21 18:12	03/25/21 10:15	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/24/21 18:12	03/25/21 10:15	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/24/21 18:12	03/25/21 10:15	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/24/21 18:12	03/25/21 10:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/24/21 18:12	03/25/21 10:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*03/24/21 18:12*	*03/25/21 10:15*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*03/24/21 18:12*	*03/25/21 10:15*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		03/23/21 16:46	03/24/21 05:03	1
Total TPH	<49.8	U	49.8		mg/Kg		03/23/21 16:46	03/24/21 05:03	1

Eurofins Xenco, Midland

Client Sample Results

Client: ConocoPhillips Co.
Project/Site: COG-Burton 35 #001 (10-21-21)

Job ID: 880-607-1
SDG: Lea County NM

Client Sample ID: CS-3 East

Lab Sample ID: 880-607-11
Matrix: Solid
Date Collected: 03/22/21 00:00
Date Received: 03/23/21 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/23/21 16:46	03/24/21 05:03	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/23/21 16:46	03/24/21 05:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*48*	*S1-*	*70 - 130*	*03/23/21 16:46*	*03/24/21 05:03*	*1*
o-Terphenyl	*45*	*S1-*	*70 - 130*	*03/23/21 16:46*	*03/24/21 05:03*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.05	U	5.05		mg/Kg			03/26/21 10:15	1

Client Sample ID: CS-3 Bottom Hole 2'

Lab Sample ID: 880-607-12
Matrix: Solid
Date Collected: 03/18/21 00:00
Date Received: 03/23/21 16:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/24/21 18:12	03/25/21 10:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/24/21 18:12	03/25/21 10:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/24/21 18:12	03/25/21 10:36	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/24/21 18:12	03/25/21 10:36	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/24/21 18:12	03/25/21 10:36	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/24/21 18:12	03/25/21 10:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/24/21 18:12	03/25/21 10:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*03/24/21 18:12*	*03/25/21 10:36*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*03/24/21 18:12*	*03/25/21 10:36*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/23/21 16:46	03/24/21 05:25	1
Total TPH	<50.0	U	50.0		mg/Kg		03/23/21 16:46	03/24/21 05:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/23/21 16:46	03/24/21 05:25	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/23/21 16:46	03/24/21 05:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*65*	*S1-*	*70 - 130*	*03/23/21 16:46*	*03/24/21 05:25*	*1*
o-Terphenyl	*61*	*S1-*	*70 - 130*	*03/23/21 16:46*	*03/24/21 05:25*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.23**		5.05		mg/Kg			03/26/21 10:20	1

Client Sample Results

Client: ConocoPhillips Co.
Project/Site: COG-Burton 35 #001 (10-21-21)

Job ID: 880-607-1
SDG: Lea County NM

Client Sample ID: CS-4 North

Lab Sample ID: 880-607-13
Matrix: Solid
Date Collected: 03/22/21 00:00
Date Received: 03/23/21 16:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/24/21 18:12	03/25/21 10:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/24/21 18:12	03/25/21 10:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/24/21 18:12	03/25/21 10:56	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/24/21 18:12	03/25/21 10:56	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/24/21 18:12	03/25/21 10:56	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/24/21 18:12	03/25/21 10:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/24/21 18:12	03/25/21 10:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/24/21 18:12*	*03/25/21 10:56*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*03/24/21 18:12*	*03/25/21 10:56*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/23/21 16:46	03/24/21 05:46	1
Total TPH	<50.0	U	50.0		mg/Kg		03/23/21 16:46	03/24/21 05:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/23/21 16:46	03/24/21 05:46	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/23/21 16:46	03/24/21 05:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*51*	*S1-*	*70 - 130*	*03/23/21 16:46*	*03/24/21 05:46*	*1*
o-Terphenyl	*49*	*S1-*	*70 - 130*	*03/23/21 16:46*	*03/24/21 05:46*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.83**		4.98		mg/Kg			03/26/21 10:26	1

Client Sample ID: CS-4 South

Lab Sample ID: 880-607-14
Matrix: Solid
Date Collected: 03/22/21 00:00
Date Received: 03/23/21 16:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/24/21 18:12	03/25/21 11:17	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/24/21 18:12	03/25/21 11:17	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/24/21 18:12	03/25/21 11:17	1
Total BTEX	<0.00201	U	0.00201		mg/Kg		03/24/21 18:12	03/25/21 11:17	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/24/21 18:12	03/25/21 11:17	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/24/21 18:12	03/25/21 11:17	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/24/21 18:12	03/25/21 11:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*03/24/21 18:12*	*03/25/21 11:17*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*03/24/21 18:12*	*03/25/21 11:17*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/23/21 16:46	03/24/21 06:08	1
Total TPH	<50.0	U	50.0		mg/Kg		03/23/21 16:46	03/24/21 06:08	1

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Client Sample Results

Client: ConocoPhillips Co.
Project/Site: COG-Burton 35 #001 (10-21-21)

Job ID: 880-607-1
SDG: Lea County NM

Client Sample ID: CS-4 South

Lab Sample ID: 880-607-14
Matrix: Solid
Date Collected: 03/22/21 00:00
Date Received: 03/23/21 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/23/21 16:46	03/24/21 06:08	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/23/21 16:46	03/24/21 06:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*65*	*S1-*	*70 - 130*	*03/23/21 16:46*	*03/24/21 06:08*	*1*
o-Terphenyl	*63*	*S1-*	*70 - 130*	*03/23/21 16:46*	*03/24/21 06:08*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11.3**		4.99		mg/Kg			03/26/21 10:31	1

Client Sample ID: CS-4 East

Lab Sample ID: 880-607-15
Matrix: Solid
Date Collected: 03/22/21 00:00
Date Received: 03/23/21 16:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/24/21 18:12	03/25/21 11:38	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/24/21 18:12	03/25/21 11:38	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/24/21 18:12	03/25/21 11:38	1
Total BTEX	<0.00202	U	0.00202		mg/Kg		03/24/21 18:12	03/25/21 11:38	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/24/21 18:12	03/25/21 11:38	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		03/24/21 18:12	03/25/21 11:38	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/24/21 18:12	03/25/21 11:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/24/21 18:12*	*03/25/21 11:38*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*03/24/21 18:12*	*03/25/21 11:38*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		03/23/21 16:46	03/24/21 06:29	1
Total TPH	<49.8	U	49.8		mg/Kg		03/23/21 16:46	03/24/21 06:29	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/23/21 16:46	03/24/21 06:29	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/23/21 16:46	03/24/21 06:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*65*	*S1-*	*70 - 130*	*03/23/21 16:46*	*03/24/21 06:29*	*1*
o-Terphenyl	*63*	*S1-*	*70 - 130*	*03/23/21 16:46*	*03/24/21 06:29*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.52**		4.95		mg/Kg			03/26/21 10:37	1

Client Sample Results

Client: ConocoPhillips Co.
Project/Site: COG-Burton 35 #001 (10-21-21)

Job ID: 880-607-1
SDG: Lea County NM

Client Sample ID: CS-4 West

Lab Sample ID: 880-607-16
Matrix: Solid
Date Collected: 03/22/21 00:00
Date Received: 03/23/21 16:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/24/21 18:12	03/25/21 11:58	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/24/21 18:12	03/25/21 11:58	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/24/21 18:12	03/25/21 11:58	1
Total BTEX	<0.00202	U	0.00202		mg/Kg		03/24/21 18:12	03/25/21 11:58	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/24/21 18:12	03/25/21 11:58	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/24/21 18:12	03/25/21 11:58	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/24/21 18:12	03/25/21 11:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*03/24/21 18:12*	*03/25/21 11:58*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*03/24/21 18:12*	*03/25/21 11:58*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/23/21 16:46	03/24/21 06:57	1
Total TPH	<49.9	U	49.9		mg/Kg		03/23/21 16:46	03/24/21 06:57	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/23/21 16:46	03/24/21 06:57	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/23/21 16:46	03/24/21 06:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*63*	*S1-*	*70 - 130*	*03/23/21 16:46*	*03/24/21 06:57*	*1*
o-Terphenyl	*62*	*S1-*	*70 - 130*	*03/23/21 16:46*	*03/24/21 06:57*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.57**	**F1**	4.95		mg/Kg			03/26/21 10:42	1

Client Sample ID: CS-4 Bottom Hole 2'

Lab Sample ID: 880-607-17
Matrix: Solid
Date Collected: 03/22/21 00:00
Date Received: 03/23/21 16:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/24/21 18:12	03/25/21 12:19	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/24/21 18:12	03/25/21 12:19	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/24/21 18:12	03/25/21 12:19	1
Total BTEX	<0.00199	U	0.00199		mg/Kg		03/24/21 18:12	03/25/21 12:19	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/24/21 18:12	03/25/21 12:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/24/21 18:12	03/25/21 12:19	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/24/21 18:12	03/25/21 12:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*03/24/21 18:12*	*03/25/21 12:19*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*03/24/21 18:12*	*03/25/21 12:19*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/23/21 16:46	03/24/21 07:18	1
Total TPH	<49.9	U	49.9		mg/Kg		03/23/21 16:46	03/24/21 07:18	1

Eurofins Xenco, Midland

Client Sample Results

Client: ConocoPhillips Co.
Project/Site: COG-Burton 35 #001 (10-21-21)

Job ID: 880-607-1
SDG: Lea County NM

Client Sample ID: CS-4 Bottom Hole 2'
Date Collected: 03/22/21 00:00
Date Received: 03/23/21 16:00

Lab Sample ID: 880-607-17
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/23/21 16:46	03/24/21 07:18	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/23/21 16:46	03/24/21 07:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*69*	*S1-*	*70 - 130*	*03/23/21 16:46*	*03/24/21 07:18*	*1*
o-Terphenyl	*66*	*S1-*	*70 - 130*	*03/23/21 16:46*	*03/24/21 07:18*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.99**		4.96		mg/Kg			03/26/21 10:59	1

Surrogate Summary

Client: ConocoPhillips Co.
Project/Site: COG-Burton 35 #001 (10-21-21)

Job ID: 880-607-1
SDG: Lea County NM

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)
880-607-1	CS-1 South	95	107
880-607-1 MS	CS-1 South	97	105
880-607-2	CS-1 East	109	109
880-607-3	CS-1 West	104	105
880-607-4	CS-1 Bottom Hole 6'	101	105
880-607-5	CS-2 North	105	111
880-607-6	CS-2 East	96	101
880-607-7	CS-2 West	95	100
880-607-8	CS-2 Bottom Hole 6'	87	102
880-607-9	CS-3 North	90	103
880-607-10	CS-3 South	97	104
880-607-11	CS-3 East	93	94
880-607-12	CS-3 Bottom Hole 2'	96	103
880-607-13	CS-4 North	97	107
880-607-14	CS-4 South	113	95
880-607-15	CS-4 East	97	102
880-607-16	CS-4 West	94	102
880-607-17	CS-4 Bottom Hole 2'	103	110
LCS 880-773/1-A	Lab Control Sample	100	102
LCS 880-825/1-A	Lab Control Sample	88	95
LCSD 880-773/2-A	Lab Control Sample Dup	96	102
LCSD 880-825/2-A	Lab Control Sample Dup	92	96
MB 880-773/5-A	Method Blank	108	92
MB 880-785/5-A	Method Blank	111	97
MB 880-825/5-A	Method Blank	114	91

Surrogate Legend

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

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		
880-607-2 MSD	CS-1 East		

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-607-1	CS-1 South	65 S1-	63 S1-
880-607-1 MS	CS-1 South	59 S1-	51 S1-
880-607-1 MSD	CS-1 South	79	70

Surrogate Summary

Client: ConocoPhillips Co. Job ID: 880-607-1
Project/Site: COG-Burton 35 #001 (10-21-21) SDG: Lea County NM

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

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

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)								
880-607-2	CS-1 East	78	74								
880-607-3	CS-1 West	75	71								
880-607-4	CS-1 Bottom Hole 6'	68 S1-	64 S1-								
880-607-5	CS-2 North	66 S1-	62 S1-								
880-607-6	CS-2 East	60 S1-	59 S1-								
880-607-7	CS-2 West	71	70								
880-607-8	CS-2 Bottom Hole 6'	69 S1-	67 S1-								
880-607-9	CS-3 North	65 S1-	62 S1-								
880-607-10	CS-3 South	42 S1-	38 S1-								
880-607-11	CS-3 East	48 S1-	45 S1-								
880-607-12	CS-3 Bottom Hole 2'	65 S1-	61 S1-								
880-607-13	CS-4 North	51 S1-	49 S1-								
880-607-14	CS-4 South	65 S1-	63 S1-								
880-607-15	CS-4 East	65 S1-	63 S1-								
880-607-16	CS-4 West	63 S1-	62 S1-								
880-607-17	CS-4 Bottom Hole 2'	69 S1-	66 S1-								
LCS 880-772/2-A	Lab Control Sample	99	91								
LCSD 880-772/3-A	Lab Control Sample Dup	101	92								
MB 880-772/1-A	Method Blank	91	93								

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: ConocoPhillips Co.
Project/Site: COG-Burton 35 #001 (10-21-21)

Job ID: 880-607-1
SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-773/5-A
Matrix: Solid
Analysis Batch: 750

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 773

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/23/21 16:47	03/24/21 09:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/23/21 16:47	03/24/21 09:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/23/21 16:47	03/24/21 09:25	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/23/21 16:47	03/24/21 09:25	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/23/21 16:47	03/24/21 09:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/23/21 16:47	03/24/21 09:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/23/21 16:47	03/24/21 09:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*03/23/21 16:47*	*03/24/21 09:25*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*03/23/21 16:47*	*03/24/21 09:25*	*1*

Lab Sample ID: LCS 880-773/1-A
Matrix: Solid
Analysis Batch: 750

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 773

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09318		mg/Kg		93	70 - 130
Ethylbenzene	0.100	0.09339		mg/Kg		93	70 - 130
Toluene	0.100	0.09787		mg/Kg		98	70 - 130
m-Xylene & p-Xylene	0.200	0.1878		mg/Kg		94	70 - 130
o-Xylene	0.100	0.09413		mg/Kg		94	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 880-773/2-A
Matrix: Solid
Analysis Batch: 750

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 773

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09124		mg/Kg		91	70 - 130	2	35
Ethylbenzene	0.100	0.09183		mg/Kg		92	70 - 130	2	35
Toluene	0.100	0.09533		mg/Kg		95	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1820		mg/Kg		91	70 - 130	3	35
o-Xylene	0.100	0.09039		mg/Kg		90	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: 880-607-1 MS
Matrix: Solid
Analysis Batch: 750

Client Sample ID: CS-1 South
Prep Type: Total/NA
Prep Batch: 773

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00202	U	0.0998	0.08440		mg/Kg		83	70 - 130

QC Sample Results

Client: ConocoPhillips Co.
Project/Site: COG-Burton 35 #001 (10-21-21)

Job ID: 880-607-1
SDG: Lea County NM

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

Lab Sample ID: 880-607-1 MS
Matrix: Solid
Analysis Batch: 750

Client Sample ID: CS-1 South
Prep Type: Total/NA
Prep Batch: 773

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00202	U	0.0998	0.07228		mg/Kg		72	70 - 130
Toluene	<0.00202	U	0.0998	0.07332		mg/Kg		73	70 - 130
m-Xylene & p-Xylene	<0.00404	U	0.200	0.1393		mg/Kg		70	70 - 130
o-Xylene	<0.00202	U	0.0998	0.08096		mg/Kg		81	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: 880-607-2 MSD
Matrix: Solid
Analysis Batch: 750

Client Sample ID: CS-1 East
Prep Type: Total/NA
Prep Batch: 773

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.100	0.09041		mg/Kg					
Ethylbenzene	<0.00202	U	0.100	0.07564		mg/Kg					
Toluene	<0.00202	U	0.100	0.07202		mg/Kg					
m-Xylene & p-Xylene	<0.00404	U	0.201	0.1432		mg/Kg					
o-Xylene	<0.00202	U	0.100	0.08806		mg/Kg					

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

Lab Sample ID: MB 880-785/5-A
Matrix: Solid
Analysis Batch: 827

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 785

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/23/21 17:38	03/24/21 22:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/23/21 17:38	03/24/21 22:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/23/21 17:38	03/24/21 22:52	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/23/21 17:38	03/24/21 22:52	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/23/21 17:38	03/24/21 22:52	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/23/21 17:38	03/24/21 22:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/23/21 17:38	03/24/21 22:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*03/23/21 17:38*	*03/24/21 22:52*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*03/23/21 17:38*	*03/24/21 22:52*	*1*

Lab Sample ID: MB 880-825/5-A
Matrix: Solid
Analysis Batch: 827

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 825

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/24/21 18:12	03/25/21 09:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/24/21 18:12	03/25/21 09:53	1

QC Sample Results

Client: ConocoPhillips Co.
Project/Site: COG-Burton 35 #001 (10-21-21)

Job ID: 880-607-1
SDG: Lea County NM

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

Lab Sample ID: MB 880-825/5-A
Matrix: Solid
Analysis Batch: 827

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 825

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00200	U	0.00200		mg/Kg		03/24/21 18:12	03/25/21 09:53	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/24/21 18:12	03/25/21 09:53	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/24/21 18:12	03/25/21 09:53	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/24/21 18:12	03/25/21 09:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/24/21 18:12	03/25/21 09:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*03/24/21 18:12*	*03/25/21 09:53*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*03/24/21 18:12*	*03/25/21 09:53*	*1*

Lab Sample ID: LCS 880-825/1-A
Matrix: Solid
Analysis Batch: 827

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 825

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.09183		mg/Kg		92	70 - 130		
Ethylbenzene			0.100	0.09466		mg/Kg		95	70 - 130		
Toluene			0.100	0.09952		mg/Kg		100	70 - 130		
m-Xylene & p-Xylene			0.200	0.1897		mg/Kg		95	70 - 130		
o-Xylene			0.100	0.09483		mg/Kg		95	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: LCSD 880-825/2-A
Matrix: Solid
Analysis Batch: 827

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 825

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.09347		mg/Kg		93	70 - 130	2	35
Ethylbenzene			0.100	0.09481		mg/Kg		95	70 - 130	0	35
Toluene			0.100	0.1050		mg/Kg		105	70 - 130	5	35
m-Xylene & p-Xylene			0.200	0.1972		mg/Kg		99	70 - 130	4	35
o-Xylene			0.100	0.09956		mg/Kg		100	70 - 130	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

QC Sample Results

Client: ConocoPhillips Co.
Project/Site: COG-Burton 35 #001 (10-21-21)

Job ID: 880-607-1
SDG: Lea County NM

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

Lab Sample ID: MB 880-772/1-A
Matrix: Solid
Analysis Batch: 783

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 772

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/23/21 16:46	03/23/21 23:14	1
Total TPH	<50.0	U	50.0		mg/Kg		03/23/21 16:46	03/23/21 23:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/23/21 16:46	03/23/21 23:14	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/23/21 16:46	03/23/21 23:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*03/23/21 16:46*	*03/23/21 23:14*	*1*
o-Terphenyl	*93*		*70 - 130*	*03/23/21 16:46*	*03/23/21 23:14*	*1*

Lab Sample ID: LCS 880-772/2-A
Matrix: Solid
Analysis Batch: 783

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 772

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1021		mg/Kg		102	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	882.8		mg/Kg		88	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*99*		*70 - 130*
o-Terphenyl	*91*		*70 - 130*

Lab Sample ID: LCSD 880-772/3-A
Matrix: Solid
Analysis Batch: 783

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 772

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1031		mg/Kg		103	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	892.5		mg/Kg		89	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*101*		*70 - 130*
o-Terphenyl	*92*		*70 - 130*

Lab Sample ID: 880-607-1 MS
Matrix: Solid
Analysis Batch: 783

Client Sample ID: CS-1 South
Prep Type: Total/NA
Prep Batch: 772

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1 F2	1000	657.0	F1	mg/Kg		65	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U F1 F2	1000	558.1	F1	mg/Kg		54	70 - 130		

QC Sample Results

Client: ConocoPhillips Co.
Project/Site: COG-Burton 35 #001 (10-21-21)

Job ID: 880-607-1
SDG: Lea County NM

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

Lab Sample ID: 880-607-1 MS
Matrix: Solid
Analysis Batch: 783

Client Sample ID: CS-1 South
Prep Type: Total/NA
Prep Batch: 772

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	59	S1-	70 - 130
o-Terphenyl	51	S1-	70 - 130

Lab Sample ID: 880-607-1 MSD
Matrix: Solid
Analysis Batch: 783

Client Sample ID: CS-1 South
Prep Type: Total/NA
Prep Batch: 772

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1 F2	998	866.9	F2	mg/Kg		87	70 - 130	28	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1 F2	998	760.0	F2	mg/Kg		74	70 - 130	31	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	79		70 - 130
o-Terphenyl	70		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-804/1-A
Matrix: Solid
Analysis Batch: 806

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			03/24/21 15:23	1

Lab Sample ID: LCS 880-804/2-A
Matrix: Solid
Analysis Batch: 806

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 880-804/3-A
Matrix: Solid
Analysis Batch: 806

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	272.7		mg/Kg		109	90 - 110	9	20

Lab Sample ID: 880-607-1 MS
Matrix: Solid
Analysis Batch: 806

Client Sample ID: CS-1 South
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	9.07	F1	248	214.6	F1	mg/Kg		83	90 - 110

QC Sample Results

Client: ConocoPhillips Co.
Project/Site: COG-Burton 35 #001 (10-21-21)

Job ID: 880-607-1
SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-607-1 MSD
Matrix: Solid
Analysis Batch: 806

Client Sample ID: CS-1 South
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	9.07	F1	248	196.3	F1	mg/Kg		75	90 - 110	9	20

Lab Sample ID: MB 880-863/1-A
Matrix: Solid
Analysis Batch: 864

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			03/25/21 16:09	1

Lab Sample ID: LCS 880-863/2-A
Matrix: Solid
Analysis Batch: 864

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	269.1		mg/Kg		108	90 - 110

Lab Sample ID: LCSD 880-863/3-A
Matrix: Solid
Analysis Batch: 864

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	269.8		mg/Kg		108	90 - 110	0	20

Lab Sample ID: 880-607-6 MS
Matrix: Solid
Analysis Batch: 864

Client Sample ID: CS-2 East
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	12.7	F1	248	291.2	F1	mg/Kg		112	90 - 110

Lab Sample ID: 880-607-6 MSD
Matrix: Solid
Analysis Batch: 864

Client Sample ID: CS-2 East
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	12.7	F1	248	290.8	F1	mg/Kg		112	90 - 110	0	20

Lab Sample ID: 880-607-16 MS
Matrix: Solid
Analysis Batch: 864

Client Sample ID: CS-4 West
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	7.57	F1	248	298.4	F1	mg/Kg		117	90 - 110

Lab Sample ID: 880-607-16 MSD
Matrix: Solid
Analysis Batch: 864

Client Sample ID: CS-4 West
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	7.57	F1	248	289.7	F1	mg/Kg		114	90 - 110	3	20

QC Association Summary

Client: ConocoPhillips Co.
Project/Site: COG-Burton 35 #001 (10-21-21)

Job ID: 880-607-1
SDG: Lea County NM

GC VOA

Analysis Batch: 750

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-607-1	CS-1 South	Total/NA	Solid	8021B	773
880-607-2	CS-1 East	Total/NA	Solid	8021B	773
880-607-3	CS-1 West	Total/NA	Solid	8021B	773
880-607-4	CS-1 Bottom Hole 6'	Total/NA	Solid	8021B	773
880-607-5	CS-2 North	Total/NA	Solid	8021B	773
880-607-6	CS-2 East	Total/NA	Solid	8021B	773
880-607-7	CS-2 West	Total/NA	Solid	8021B	773
880-607-8	CS-2 Bottom Hole 6'	Total/NA	Solid	8021B	773
880-607-9	CS-3 North	Total/NA	Solid	8021B	773
880-607-10	CS-3 South	Total/NA	Solid	8021B	773
MB 880-773/5-A	Method Blank	Total/NA	Solid	8021B	773
LCS 880-773/1-A	Lab Control Sample	Total/NA	Solid	8021B	773
LCSD 880-773/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	773
880-607-1 MS	CS-1 South	Total/NA	Solid	8021B	773
880-607-2 MSD	CS-1 East	Total/NA	Solid	8021B	773

Prep Batch: 773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-607-1	CS-1 South	Total/NA	Solid	5035	
880-607-2	CS-1 East	Total/NA	Solid	5035	
880-607-3	CS-1 West	Total/NA	Solid	5035	
880-607-4	CS-1 Bottom Hole 6'	Total/NA	Solid	5035	
880-607-5	CS-2 North	Total/NA	Solid	5035	
880-607-6	CS-2 East	Total/NA	Solid	5035	
880-607-7	CS-2 West	Total/NA	Solid	5035	
880-607-8	CS-2 Bottom Hole 6'	Total/NA	Solid	5035	
880-607-9	CS-3 North	Total/NA	Solid	5035	
880-607-10	CS-3 South	Total/NA	Solid	5035	
MB 880-773/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-773/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-773/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-607-1 MS	CS-1 South	Total/NA	Solid	5035	
880-607-2 MSD	CS-1 East	Total/NA	Solid	5035	

Prep Batch: 785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-785/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-607-11	CS-3 East	Total/NA	Solid	5035	
880-607-12	CS-3 Bottom Hole 2'	Total/NA	Solid	5035	
880-607-13	CS-4 North	Total/NA	Solid	5035	
880-607-14	CS-4 South	Total/NA	Solid	5035	
880-607-15	CS-4 East	Total/NA	Solid	5035	
880-607-16	CS-4 West	Total/NA	Solid	5035	
880-607-17	CS-4 Bottom Hole 2'	Total/NA	Solid	5035	
MB 880-825/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-825/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-825/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

QC Association Summary

Client: ConocoPhillips Co.
Project/Site: COG-Burton 35 #001 (10-21-21)

Job ID: 880-607-1
SDG: Lea County NM

GC VOA

Analysis Batch: 827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-607-11	CS-3 East	Total/NA	Solid	8021B	825
880-607-12	CS-3 Bottom Hole 2'	Total/NA	Solid	8021B	825
880-607-13	CS-4 North	Total/NA	Solid	8021B	825
880-607-14	CS-4 South	Total/NA	Solid	8021B	825
880-607-15	CS-4 East	Total/NA	Solid	8021B	825
880-607-16	CS-4 West	Total/NA	Solid	8021B	825
880-607-17	CS-4 Bottom Hole 2'	Total/NA	Solid	8021B	825
MB 880-785/5-A	Method Blank	Total/NA	Solid	8021B	785
MB 880-825/5-A	Method Blank	Total/NA	Solid	8021B	825
LCS 880-825/1-A	Lab Control Sample	Total/NA	Solid	8021B	825
LCSD 880-825/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	825

GC Semi VOA

Prep Batch: 772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-607-1	CS-1 South	Total/NA	Solid	8015NM Prep	
880-607-2	CS-1 East	Total/NA	Solid	8015NM Prep	
880-607-3	CS-1 West	Total/NA	Solid	8015NM Prep	
880-607-4	CS-1 Bottom Hole 6'	Total/NA	Solid	8015NM Prep	
880-607-5	CS-2 North	Total/NA	Solid	8015NM Prep	
880-607-6	CS-2 East	Total/NA	Solid	8015NM Prep	
880-607-7	CS-2 West	Total/NA	Solid	8015NM Prep	
880-607-8	CS-2 Bottom Hole 6'	Total/NA	Solid	8015NM Prep	
880-607-9	CS-3 North	Total/NA	Solid	8015NM Prep	
880-607-10	CS-3 South	Total/NA	Solid	8015NM Prep	
880-607-11	CS-3 East	Total/NA	Solid	8015NM Prep	
880-607-12	CS-3 Bottom Hole 2'	Total/NA	Solid	8015NM Prep	
880-607-13	CS-4 North	Total/NA	Solid	8015NM Prep	
880-607-14	CS-4 South	Total/NA	Solid	8015NM Prep	
880-607-15	CS-4 East	Total/NA	Solid	8015NM Prep	
880-607-16	CS-4 West	Total/NA	Solid	8015NM Prep	
880-607-17	CS-4 Bottom Hole 2'	Total/NA	Solid	8015NM Prep	
MB 880-772/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-772/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-772/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-607-1 MS	CS-1 South	Total/NA	Solid	8015NM Prep	
880-607-1 MSD	CS-1 South	Total/NA	Solid	8015NM Prep	

Analysis Batch: 783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-607-1	CS-1 South	Total/NA	Solid	8015B NM	772
880-607-2	CS-1 East	Total/NA	Solid	8015B NM	772
880-607-3	CS-1 West	Total/NA	Solid	8015B NM	772
880-607-4	CS-1 Bottom Hole 6'	Total/NA	Solid	8015B NM	772
880-607-5	CS-2 North	Total/NA	Solid	8015B NM	772
880-607-6	CS-2 East	Total/NA	Solid	8015B NM	772
880-607-7	CS-2 West	Total/NA	Solid	8015B NM	772
880-607-8	CS-2 Bottom Hole 6'	Total/NA	Solid	8015B NM	772
880-607-9	CS-3 North	Total/NA	Solid	8015B NM	772
880-607-10	CS-3 South	Total/NA	Solid	8015B NM	772

QC Association Summary

Client: ConocoPhillips Co.
Project/Site: COG-Burton 35 #001 (10-21-21)

Job ID: 880-607-1
SDG: Lea County NM

GC Semi VOA (Continued)

Analysis Batch: 783 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-607-11	CS-3 East	Total/NA	Solid	8015B NM	772
880-607-12	CS-3 Bottom Hole 2'	Total/NA	Solid	8015B NM	772
880-607-13	CS-4 North	Total/NA	Solid	8015B NM	772
880-607-14	CS-4 South	Total/NA	Solid	8015B NM	772
880-607-15	CS-4 East	Total/NA	Solid	8015B NM	772
880-607-16	CS-4 West	Total/NA	Solid	8015B NM	772
880-607-17	CS-4 Bottom Hole 2'	Total/NA	Solid	8015B NM	772
MB 880-772/1-A	Method Blank	Total/NA	Solid	8015B NM	772
LCS 880-772/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	772
LCSD 880-772/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	772
880-607-1 MS	CS-1 South	Total/NA	Solid	8015B NM	772
880-607-1 MSD	CS-1 South	Total/NA	Solid	8015B NM	772

HPLC/IC

Leach Batch: 804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-607-1	CS-1 South	Soluble	Solid	DI Leach	
880-607-2	CS-1 East	Soluble	Solid	DI Leach	
880-607-3	CS-1 West	Soluble	Solid	DI Leach	
880-607-4	CS-1 Bottom Hole 6'	Soluble	Solid	DI Leach	
880-607-5	CS-2 North	Soluble	Solid	DI Leach	
MB 880-804/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-804/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-804/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-607-1 MS	CS-1 South	Soluble	Solid	DI Leach	
880-607-1 MSD	CS-1 South	Soluble	Solid	DI Leach	

Analysis Batch: 806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-607-1	CS-1 South	Soluble	Solid	300.0	804
880-607-2	CS-1 East	Soluble	Solid	300.0	804
880-607-3	CS-1 West	Soluble	Solid	300.0	804
880-607-4	CS-1 Bottom Hole 6'	Soluble	Solid	300.0	804
880-607-5	CS-2 North	Soluble	Solid	300.0	804
MB 880-804/1-A	Method Blank	Soluble	Solid	300.0	804
LCS 880-804/2-A	Lab Control Sample	Soluble	Solid	300.0	804
LCSD 880-804/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	804
880-607-1 MS	CS-1 South	Soluble	Solid	300.0	804
880-607-1 MSD	CS-1 South	Soluble	Solid	300.0	804

Leach Batch: 863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-607-6	CS-2 East	Soluble	Solid	DI Leach	
880-607-7	CS-2 West	Soluble	Solid	DI Leach	
880-607-8	CS-2 Bottom Hole 6'	Soluble	Solid	DI Leach	
880-607-9	CS-3 North	Soluble	Solid	DI Leach	
880-607-10	CS-3 South	Soluble	Solid	DI Leach	
880-607-11	CS-3 East	Soluble	Solid	DI Leach	
880-607-12	CS-3 Bottom Hole 2'	Soluble	Solid	DI Leach	
880-607-13	CS-4 North	Soluble	Solid	DI Leach	

QC Association Summary

Client: ConocoPhillips Co.
Project/Site: COG-Burton 35 #001 (10-21-21)

Job ID: 880-607-1
SDG: Lea County NM

HPLC/IC (Continued)

Leach Batch: 863 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-607-14	CS-4 South	Soluble	Solid	DI Leach	
880-607-15	CS-4 East	Soluble	Solid	DI Leach	
880-607-16	CS-4 West	Soluble	Solid	DI Leach	
880-607-17	CS-4 Bottom Hole 2'	Soluble	Solid	DI Leach	
MB 880-863/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-863/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-863/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-607-6 MS	CS-2 East	Soluble	Solid	DI Leach	
880-607-6 MSD	CS-2 East	Soluble	Solid	DI Leach	
880-607-16 MS	CS-4 West	Soluble	Solid	DI Leach	
880-607-16 MSD	CS-4 West	Soluble	Solid	DI Leach	

Analysis Batch: 864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-607-6	CS-2 East	Soluble	Solid	300.0	863
880-607-7	CS-2 West	Soluble	Solid	300.0	863
880-607-8	CS-2 Bottom Hole 6'	Soluble	Solid	300.0	863
880-607-9	CS-3 North	Soluble	Solid	300.0	863
880-607-10	CS-3 South	Soluble	Solid	300.0	863
880-607-11	CS-3 East	Soluble	Solid	300.0	863
880-607-12	CS-3 Bottom Hole 2'	Soluble	Solid	300.0	863
880-607-13	CS-4 North	Soluble	Solid	300.0	863
880-607-14	CS-4 South	Soluble	Solid	300.0	863
880-607-15	CS-4 East	Soluble	Solid	300.0	863
880-607-16	CS-4 West	Soluble	Solid	300.0	863
880-607-17	CS-4 Bottom Hole 2'	Soluble	Solid	300.0	863
MB 880-863/1-A	Method Blank	Soluble	Solid	300.0	863
LCS 880-863/2-A	Lab Control Sample	Soluble	Solid	300.0	863
LCSD 880-863/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	863
880-607-6 MS	CS-2 East	Soluble	Solid	300.0	863
880-607-6 MSD	CS-2 East	Soluble	Solid	300.0	863
880-607-16 MS	CS-4 West	Soluble	Solid	300.0	863
880-607-16 MSD	CS-4 West	Soluble	Solid	300.0	863

Lab Chronicle

Client: ConocoPhillips Co.
Project/Site: COG-Burton 35 #001 (10-21-21)

Job ID: 880-607-1
SDG: Lea County NM

Client Sample ID: CS-1 South

Lab Sample ID: 880-607-1
Date Collected: 03/22/21 00:00
Matrix: Solid
Date Received: 03/23/21 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			773	03/23/21 16:47	KL	XM
Total/NA	Analysis	8021B		1	750	03/24/21 09:47	PXS	XM
Total/NA	Prep	8015NM Prep			772	03/23/21 16:46	DM	XM
Total/NA	Analysis	8015B NM		1	783	03/24/21 00:18	AM	XM
Soluble	Leach	DI Leach			804	03/24/21 11:14	CH	XM
Soluble	Analysis	300.0		1	806	03/24/21 15:38	WP	XM

Client Sample ID: CS-1 East

Lab Sample ID: 880-607-2
Date Collected: 03/18/21 00:00
Matrix: Solid
Date Received: 03/23/21 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			773	03/23/21 16:47	KL	XM
Total/NA	Analysis	8021B		1	750	03/24/21 10:08	PXS	XM
Total/NA	Prep	8015NM Prep			772	03/23/21 16:46	DM	XM
Total/NA	Analysis	8015B NM		1	783	03/24/21 01:29	AM	XM
Soluble	Leach	DI Leach			804	03/24/21 11:14	CH	XM
Soluble	Analysis	300.0		1	806	03/24/21 15:54	WP	XM

Client Sample ID: CS-1 West

Lab Sample ID: 880-607-3
Date Collected: 03/22/21 00:00
Matrix: Solid
Date Received: 03/23/21 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			773	03/23/21 16:47	KL	XM
Total/NA	Analysis	8021B		1	750	03/24/21 10:29	PXS	XM
Total/NA	Prep	8015NM Prep			772	03/23/21 16:46	DM	XM
Total/NA	Analysis	8015B NM		1	783	03/24/21 01:50	AM	XM
Soluble	Leach	DI Leach			804	03/24/21 11:14	CH	XM
Soluble	Analysis	300.0		1	806	03/24/21 15:59	WP	XM

Client Sample ID: CS-1 Bottom Hole 6'

Lab Sample ID: 880-607-4
Date Collected: 03/22/21 00:00
Matrix: Solid
Date Received: 03/23/21 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			773	03/23/21 16:47	KL	XM
Total/NA	Analysis	8021B		1	750	03/24/21 10:49	PXS	XM
Total/NA	Prep	8015NM Prep			772	03/23/21 16:46	DM	XM
Total/NA	Analysis	8015B NM		1	783	03/24/21 02:12	AM	XM
Soluble	Leach	DI Leach			804	03/24/21 11:14	CH	XM
Soluble	Analysis	300.0		1	806	03/24/21 16:04	WP	XM

Lab Chronicle

Client: ConocoPhillips Co.
Project/Site: COG-Burton 35 #001 (10-21-21)

Job ID: 880-607-1
SDG: Lea County NM

Client Sample ID: CS-2 North

Lab Sample ID: 880-607-5
Date Collected: 03/22/21 00:00
Matrix: Solid
Date Received: 03/23/21 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			773	03/23/21 16:47	KL	XM
Total/NA	Analysis	8021B		1	750	03/24/21 11:10	PXS	XM
Total/NA	Prep	8015NM Prep			772	03/23/21 16:46	DM	XM
Total/NA	Analysis	8015B NM		1	783	03/24/21 02:33	AM	XM
Soluble	Leach	DI Leach			804	03/24/21 11:14	CH	XM
Soluble	Analysis	300.0		1	806	03/24/21 16:10	WP	XM

Client Sample ID: CS-2 East

Lab Sample ID: 880-607-6
Date Collected: 03/22/21 00:00
Matrix: Solid
Date Received: 03/23/21 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			773	03/23/21 16:47	KL	XM
Total/NA	Analysis	8021B		1	750	03/24/21 11:31	PXS	XM
Total/NA	Prep	8015NM Prep			772	03/23/21 16:46	DM	XM
Total/NA	Analysis	8015B NM		1	783	03/24/21 02:55	AM	XM
Soluble	Leach	DI Leach			863	03/25/21 11:20	CH	XM
Soluble	Analysis	300.0		1	864	03/25/21 16:26	WP	XM

Client Sample ID: CS-2 West

Lab Sample ID: 880-607-7
Date Collected: 03/22/21 00:00
Matrix: Solid
Date Received: 03/23/21 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			773	03/23/21 16:47	KL	XM
Total/NA	Analysis	8021B		1	750	03/24/21 11:52	PXS	XM
Total/NA	Prep	8015NM Prep			772	03/23/21 16:46	DM	XM
Total/NA	Analysis	8015B NM		1	783	03/24/21 03:16	AM	XM
Soluble	Leach	DI Leach			863	03/25/21 11:20	CH	XM
Soluble	Analysis	300.0		1	864	03/25/21 16:43	WP	XM

Client Sample ID: CS-2 Bottom Hole 6'

Lab Sample ID: 880-607-8
Date Collected: 03/22/21 00:00
Matrix: Solid
Date Received: 03/23/21 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			773	03/23/21 16:47	KL	XM
Total/NA	Analysis	8021B		1	750	03/24/21 14:18	PXS	XM
Total/NA	Prep	8015NM Prep			772	03/23/21 16:46	DM	XM
Total/NA	Analysis	8015B NM		1	783	03/24/21 03:38	AM	XM
Soluble	Leach	DI Leach			863	03/25/21 11:20	CH	XM
Soluble	Analysis	300.0		1	864	03/25/21 16:48	WP	XM

Lab Chronicle

Client: ConocoPhillips Co.
Project/Site: COG-Burton 35 #001 (10-21-21)

Job ID: 880-607-1
SDG: Lea County NM

Client Sample ID: CS-3 North
Lab Sample ID: 880-607-9
Date Collected: 03/22/21 00:00
Matrix: Solid
Date Received: 03/23/21 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			773	03/23/21 16:47	KL	XM
Total/NA	Analysis	8021B		1	750	03/24/21 14:38	PXS	XM
Total/NA	Prep	8015NM Prep			772	03/23/21 16:46	DM	XM
Total/NA	Analysis	8015B NM		1	783	03/24/21 03:59	AM	XM
Soluble	Leach	DI Leach			863	03/25/21 11:20	CH	XM
Soluble	Analysis	300.0		1	864	03/25/21 16:54	WP	XM

Client Sample ID: CS-3 South
Lab Sample ID: 880-607-10
Date Collected: 03/22/21 00:00
Matrix: Solid
Date Received: 03/23/21 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			773	03/23/21 16:47	KL	XM
Total/NA	Analysis	8021B		1	750	03/24/21 14:59	PXS	XM
Total/NA	Prep	8015NM Prep			772	03/23/21 16:46	DM	XM
Total/NA	Analysis	8015B NM		1	783	03/24/21 04:20	AM	XM
Soluble	Leach	DI Leach			863	03/25/21 11:20	CH	XM
Soluble	Analysis	300.0		1	864	03/25/21 16:59	WP	XM

Client Sample ID: CS-3 East
Lab Sample ID: 880-607-11
Date Collected: 03/22/21 00:00
Matrix: Solid
Date Received: 03/23/21 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			825	03/24/21 18:12	KL	XM
Total/NA	Analysis	8021B		1	827	03/25/21 10:15	PXS	XM
Total/NA	Prep	8015NM Prep			772	03/23/21 16:46	DM	XM
Total/NA	Analysis	8015B NM		1	783	03/24/21 05:03	AM	XM
Soluble	Leach	DI Leach			863	03/25/21 11:20	CH	XM
Soluble	Analysis	300.0		1	864	03/26/21 10:15	WP	XM

Client Sample ID: CS-3 Bottom Hole 2'
Lab Sample ID: 880-607-12
Date Collected: 03/18/21 00:00
Matrix: Solid
Date Received: 03/23/21 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			825	03/24/21 18:12	KL	XM
Total/NA	Analysis	8021B		1	827	03/25/21 10:36	PXS	XM
Total/NA	Prep	8015NM Prep			772	03/23/21 16:46	DM	XM
Total/NA	Analysis	8015B NM		1	783	03/24/21 05:25	AM	XM
Soluble	Leach	DI Leach			863	03/25/21 11:20	CH	XM
Soluble	Analysis	300.0		1	864	03/26/21 10:20	WP	XM

Lab Chronicle

Client: ConocoPhillips Co.
Project/Site: COG-Burton 35 #001 (10-21-21)

Job ID: 880-607-1
SDG: Lea County NM

Client Sample ID: CS-4 North

Lab Sample ID: 880-607-13
Date Collected: 03/22/21 00:00
Matrix: Solid
Date Received: 03/23/21 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			825	03/24/21 18:12	KL	XM
Total/NA	Analysis	8021B		1	827	03/25/21 10:56	PXS	XM
Total/NA	Prep	8015NM Prep			772	03/23/21 16:46	DM	XM
Total/NA	Analysis	8015B NM		1	783	03/24/21 05:46	AM	XM
Soluble	Leach	DI Leach			863	03/25/21 11:20	CH	XM
Soluble	Analysis	300.0		1	864	03/26/21 10:26	WP	XM

Client Sample ID: CS-4 South

Lab Sample ID: 880-607-14
Date Collected: 03/22/21 00:00
Matrix: Solid
Date Received: 03/23/21 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			825	03/24/21 18:12	KL	XM
Total/NA	Analysis	8021B		1	827	03/25/21 11:17	PXS	XM
Total/NA	Prep	8015NM Prep			772	03/23/21 16:46	DM	XM
Total/NA	Analysis	8015B NM		1	783	03/24/21 06:08	AM	XM
Soluble	Leach	DI Leach			863	03/25/21 11:20	CH	XM
Soluble	Analysis	300.0		1	864	03/26/21 10:31	WP	XM

Client Sample ID: CS-4 East

Lab Sample ID: 880-607-15
Date Collected: 03/22/21 00:00
Matrix: Solid
Date Received: 03/23/21 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			825	03/24/21 18:12	KL	XM
Total/NA	Analysis	8021B		1	827	03/25/21 11:38	PXS	XM
Total/NA	Prep	8015NM Prep			772	03/23/21 16:46	DM	XM
Total/NA	Analysis	8015B NM		1	783	03/24/21 06:29	AM	XM
Soluble	Leach	DI Leach			863	03/25/21 11:20	CH	XM
Soluble	Analysis	300.0		1	864	03/26/21 10:37	WP	XM

Client Sample ID: CS-4 West

Lab Sample ID: 880-607-16
Date Collected: 03/22/21 00:00
Matrix: Solid
Date Received: 03/23/21 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			825	03/24/21 18:12	KL	XM
Total/NA	Analysis	8021B		1	827	03/25/21 11:58	PXS	XM
Total/NA	Prep	8015NM Prep			772	03/23/21 16:46	DM	XM
Total/NA	Analysis	8015B NM		1	783	03/24/21 06:57	AM	XM
Soluble	Leach	DI Leach			863	03/25/21 11:20	CH	XM
Soluble	Analysis	300.0		1	864	03/26/21 10:42	WP	XM

Lab Chronicle

Client: ConocoPhillips Co.
Project/Site: COG-Burton 35 #001 (10-21-21)

Job ID: 880-607-1
SDG: Lea County NM

Client Sample ID: CS-4 Bottom Hole 2'

Date Collected: 03/22/21 00:00
Date Received: 03/23/21 16:00

Lab Sample ID: 880-607-17

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			825	03/24/21 18:12	KL	XM
Total/NA	Analysis	8021B		1	827	03/25/21 12:19	PXS	XM
Total/NA	Prep	8015NM Prep			772	03/23/21 16:46	DM	XM
Total/NA	Analysis	8015B NM		1	783	03/24/21 07:18	AM	XM
Soluble	Leach	DI Leach			863	03/25/21 11:20	CH	XM
Soluble	Analysis	300.0		1	864	03/26/21 10:59	WP	XM

Laboratory References:

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

Accreditation/Certification Summary

Client: ConocoPhillips Co. Job ID: 880-607-1
Project/Site: COG-Burton 35 #001 (10-21-21) SDG: Lea County NM

Laboratory: Eurofins Xenco, Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-21

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
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

Method Summary

Client: ConocoPhillips Co.
Project/Site: COG-Burton 35 #001 (10-21-21)

Job ID: 880-607-1
SDG: Lea County NM

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

Protocol References:

ASTM = ASTM International

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

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

Laboratory References:

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

Sample Summary

Client: ConocoPhillips Co.
Project/Site: COG-Burton 35 #001 (10-21-21)

Job ID: 880-607-1
SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
880-607-1	CS-1 South	Solid	03/22/21 00:00	03/23/21 16:00	
880-607-2	CS-1 East	Solid	03/18/21 00:00	03/23/21 16:00	
880-607-3	CS-1 West	Solid	03/22/21 00:00	03/23/21 16:00	
880-607-4	CS-1 Bottom Hole 6'	Solid	03/22/21 00:00	03/23/21 16:00	
880-607-5	CS-2 North	Solid	03/22/21 00:00	03/23/21 16:00	
880-607-6	CS-2 East	Solid	03/22/21 00:00	03/23/21 16:00	
880-607-7	CS-2 West	Solid	03/22/21 00:00	03/23/21 16:00	
880-607-8	CS-2 Bottom Hole 6'	Solid	03/22/21 00:00	03/23/21 16:00	
880-607-9	CS-3 North	Solid	03/22/21 00:00	03/23/21 16:00	
880-607-10	CS-3 South	Solid	03/22/21 00:00	03/23/21 16:00	
880-607-11	CS-3 East	Solid	03/22/21 00:00	03/23/21 16:00	
880-607-12	CS-3 Bottom Hole 2'	Solid	03/18/21 00:00	03/23/21 16:00	
880-607-13	CS-4 North	Solid	03/22/21 00:00	03/23/21 16:00	
880-607-14	CS-4 South	Solid	03/22/21 00:00	03/23/21 16:00	
880-607-15	CS-4 East	Solid	03/22/21 00:00	03/23/21 16:00	
880-607-16	CS-4 West	Solid	03/22/21 00:00	03/23/21 16:00	
880-607-17	CS-4 Bottom Hole 2'	Solid	03/22/21 00:00	03/23/21 16:00	

Analysis Request of Chain of Custody Record

CONCHO

One Concho Center/6
Avenue/Midland,
Tel (432) 683-7

880-607 Chain of Custody

EEG - 1007

3/26/2021

Client Name:	COG	**Site Manager:**	Ike Tavarez ike tavarez@conocophil Robert Grubbs Jr robert.d grubbs@conocophillips com
Project Name:	Burton 35 #001 (10-21-21)		
Project Location (county, state)	Lea County, New Mexico	**Project #:**	
Invoice to	COG		
Receiving Laboratory:	Eurofins Xenco	**Sampler Signature:**	Robert Grubbs Jr
Comments			

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2021 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)	TPH TX1005 (Ext to C35)	BTEX 8021B	TPH 8015M (GRO - DRO - MRO)	Chloride	Hold
	CS-1 South	3/22/2021			X				X		1			X	X	X	
	CS-1 East	3/18/2021			X				X		1			X	X	X	
	CS-1 West	3/22/2021			X				X		1			X	X	X	
	CS-1 Bottom Hole 6'	3/22/2021			X				X		1			X	X	X	
	CS-2 North	3/22/2021			X				X		1			X	X	X	
	CS-2 East	3/22/2021			X				X		1			X	X	X	
	CS-2 West	3/22/2021			X				X		1			X	X	X	
	CS-2 Bottom Hole 6'	3/22/2021			X				X		1			X	X	X	
	CS-3 North	3/22/2021			X				X		1			X	X	X	
	CS-3 South	3/22/2021			X				X		1			X	X	X	

Relinquished by:	Date:	Time:	Received by:	Date:	Time
Robert Grubbs Jr.	3/23/2021		BGW	3/23/21	1600
Relinquished by:	Date	Time:	Received by:	Date	Time
Relinquished by:	Date:	Time:	Received by:	Date:	Time

LAB USE ONLY

Sample Temperature: 5.3/5.8

REMARKS:

X	RUSH. Same Day **24 hr** 48 hr 72 hr
	Rush Charges Authorized
	Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Analysis Request of Chain of Custody Record

CONCHO

One Concho Center/600/Illinois Avenue/Midland, Texas
Tel (432) 683-7443

880-1007

3/26/2021

Client Name:	COG	**Site Manager:**	Ike Tavarez ike tavarez@conocophillips com Robert Grubbs Jr robert.d.grubbs@conocophillips com
Project Name	Burton 35 #001 (10-21-21)		
Project Location (county, state)	Lea County, New Mexico	**Project #:**	
Invoice to	COG		
Receiving Laboratory:	Eurofins Xenco	**Sampler Signature:**	Robert Grubbs Jr
Comments			

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR. 2021 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	# CONTAINERS	FILTERED (Y/N)	TPH TX1005 (Ext to C35)	BTEX 8021B	TPH 8015M (GRO - DRO - MRO)	Chloride	Hold
	CS-3 East	3/22/2021			X			X	1			X	X	X	
	CS-3 Bottom Hole 2'	3/18/2021			X			X	1			X	X	X	
	CS-4 North	3/22/2021			X			X	1			X	X	X	
	CS-4 South	3/22/2021			X			X	1			X	X	X	
	CS-4 East	3/22/2021			X			X	1			X	X	X	
	CS-4 West	3/22/2021			X			X	1			X	X	X	
	CS-4 Bottom Hole 2'	3/22/2021			X			X	1			X	X	X	

Relinquished by	Date	Time	Received by	Date	Time
Robert Grubbs Jr.	3/23/2021			3/23/21	1600
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date	Time	Received by:	Date	Time

LAB USE ONLY

Sample Temperature: 5.3/5.8

REMARKS:

X	RUSH Same Day **24 hr** 48 hr 72 hr
	Rush Charges Authorized
	Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #

ORIGINAL COPY

Login Sample Receipt Checklist

Client: ConocoPhillips Co.

Job Number: 880-607-1
SDG Number: Lea County NM

Login Number: 607
List Number: 1
Creator: Teel, Brianna

List Source: Eurofins Midland

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	

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 144427

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 144427
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	9/21/2022