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	nAPP2236449532
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Earthstone Operating, LLC	OGRID: 331165
Contact Name: Chris Martin	Contact Telephone: 432-253-9998 Ext. 2653
Contact email: cmartin@earthstoneenergy.com	Incident # *(assigned by OCD):* nAPP2236449532
Contact mailing address: 600 N. Marienfeld, Suite 1000, Midland, TX 79701	

Location of Release Source

Latitude 32.668533 Longitude -103.612933
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Buffalo 12 1 Federal 2BS Com #005H	Site Type Production Equipment
Date Release Discovered December 17, 2022	API# *(if applicable)* 30-025-45161

Unit Letter	Section	Township	Range	County
O	12	19S	33E	Lea

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

Nature and Volume of Release

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

☒ Crude Oil	Volume Released (bbls): 4.02	Volume Recovered (bbls): 4
☒ Produced Water	Volume Released (bbls): 17	Volume Recovered (bbls): 16
	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: The release was due to a hole in the fire tube. Fluid was squeegeed into a central location and recovered with a vacuum truck. The area was scraped and the soil was disposed of at a NM approved disposal facility.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2236449532
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: Rebecca Haskell Title: Senior Project Manager

Signature: Rebecca Haskell Date: 12/30/22

email: bhaskell@ntglobal.com Telephone: 432-766-1918

OCD Only

Received by: Jocelyn Harimon Date: 01/03/2023

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2236449532
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?	Unknown (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.

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2236449532
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: Rebecca Haskell Title: Senior Project Magager

Signature: Rebecca Haskell Date: 3/17/23

email: bhaskell@ntglobal.com Telephone: 432-766-1918

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2236449532
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

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Printed Name: Rebecca Haskell Title: Senior Project Magager

Signature: Rebecca Haskell Date: 3/17/23

email: bhaskell@ntglobal.com Telephone: 432-766-1918

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: Jennifer Nobui Date: 04/25/2023

Printed Name: Jennifer Nobui Title: Environmental Specialist A

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
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State of New Mexico
Energy Minerals and Natural Resources Department

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1220 South St. Francis Dr.
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Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	nAPP2236449532
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Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Earthstone Operating, LLC	OGRID: 331165
Contact Name: Chris Martin	Contact Telephone: 432-253-9998 Ext. 2653
Contact email: cmartin@earthstoneenergy.com	Incident # *(assigned by OCD):* nAPP2236449532
Contact mailing address: 600 N. Marienfeld, Suite 1000, Midland, TX 79701	

Location of Release Source

Latitude 32.668533 Longitude -103.612933
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Site Name: Buffalo 12 1 Federal 2BS Com #005H	Site Type Production Equipment
Date Release Discovered December 17, 2022	API# *(if applicable)* 30-025-45161

Unit Letter	Section	Township	Range	County
O	12	19S	33E	Lea

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

Nature and Volume of Release

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

☒ Crude Oil	Volume Released (bbls): 4.02	Volume Recovered (bbls): 4
☒ Produced Water	Volume Released (bbls): 17	Volume Recovered (bbls): 16
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
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Cause of Release: The release was due to a hole in the fire tube. Fluid was squeegeed into a central location and recovered with a vacuum truck. The area was scraped and the soil was disposed of at a NM approved disposal facility.

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2236449532
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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?
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Initial Response

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

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Printed Name: Rebecca Haskell Title: Senior Project Manager

Signature: Rebecca Haskell Date: 12/30/22

email: bhaskell@ntglobal.com Telephone: 432-766-1918

OCD Only

Received by: Jocelyn Harimon Date: 01/03/2023

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2236449532
District RP	
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Site Assessment/Characterization

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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
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Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
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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.***

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Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2236449532
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Printed Name: Rebecca Haskell Title: Senior Project Magager

Signature: Date: 3/17/23

email: bhaskell@ntglobal.com Telephone: 432-766-1918

OCD Only

Received by: Jocelyn Harimon Date: 03/20/2023

Incident ID	nAPP2236449532
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)

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☒ Description of remediation activities

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Printed Name: Rebecca Haskell Title: Senior Project Magager

Signature: _____ Date: 3/17/23

email: bhaskell@ntglobal.com Telephone: 432-766-1918

OCD Only

Received by: Jocelyn Harimon Date: 03/20/2023

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

701 Tradewinds Blvd
Midland, Texas 79707
Tel. 432-766-1918
www.ntgenvironmental.com

March 17, 2023

Mike Bratcher
District Supervisor
Oil Conservation Division, District 2
811 S. First Street
Artesia, New Mexico 88210

Re: Site Characterization and Closure Report
Buffalo 12 1 Federal 2BS Com #005H
Earthstone Operating, LLC
Site Location: Unit O, S12, T19S, R33E
(Lat 32.668533º, Long -103.612933º)
Lea County, New Mexico
Incident ID: nAPP2236449532

1. Introduction

New Tech Global LLC (NTGE), on behalf of Earthstone Operating, LLC (Earthstone), has prepared this Site Characterization and Closure Report for the NMOCD District 2 Office in Artesia, New Mexico for documentation of site assessment, remedial action activities, and analysis at the Buffalo 12 1 Federal 2BS Com #005H (Site). The Site is located within Unit Letter O, Section 12 of Township 19 South and Range 33 East in Lea County, New Mexico. The GPS coordinates for the release site are 32.668533° N latitude and -103.612933° W Longitude. The release occurred on land managed by the Bureau of Land Management (BLM). Figures 1 and 2 depict the Site location.

2. Background

Based on the Release Notification C-141 Form, the release occurred on December 17, 2022, the release was due to a hole in the fire tube on the heater treater. Approximately 4.02 barrels (bbls) of crude oil and 17 barrels (bbls) of produced water were released, of which 4 bbls of crude oil and 16 bbls of produced water were recovered. Upon discovery, the heater treater was shut-in, and the area was secured. Fluids were squeegeed into a central location and recovered with a vacuum truck. The area was scraped, and the soil was disposed of at an approved disposal facility. The release area is depicted on Figure 3. The Release Notification, Site Assessment/Characterization, and Closure portions of Form C-141 for incident number nAPP2236449532 are attached to the front of this report.

3. Groundwater and Site Characterization

Based on a review of the New Mexico Office of State Engineers (NMOSE) and USGS databases, there are no known water sources and or features within a ½-mile radius of the location. No other receptors (playas, wetlands, waterways, lakebeds, or ordinance

boundaries) are located within each specific boundary or distance from the Site. According to the Karst Potential Map the site is located within a low Karst area. The Site characterization documentation (Points of Diversion, Karst Potential, Significant Watercourse Map, Wetlands Map, and FEMA Map) are provided in Attachment A.

NTGE characterized the Site according to Table I, Closure Criteria for Soils Impacted by a Release, from New Mexico Administrative Code (NMCA) Title 19, Chapter 15, Part 29, Section 12 (NMAC 19.15.29.12).

General Site Characterization and Groundwater:

Site Characterization	Average Groundwater Depth (ft)
Low Karst	Unknown

Table 3.1 Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29.12)

Regulatory Standard	Chloride	TPH (GRO+DRO+MR	TPH (GRO+DRO)	BTEX	Benzene
19.15.29.12 NMAC Table I Closure Criteria for Soils Impacted by a Release	600 mg/kg	100 mg/kg	---	50 mg/kg	10 mg/kg
Notes: --- = not defined					

4. Initial Soil Delineation Assessment Summary and Findings

On December 29, 2022, NTGE conducted and initial site visit to document details related to the release. During the site visit NTGE collect four (4) initial assessment soil samples, CS-1 through CS-4. The samples were collected from depths ranging from zero (0) to one (1) foot with a geotechnical hand auger. The samples were submitted to Eurofins Laboratory in Midland, Texas for analyses of benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA method 8021B, total petroleum hydrocarbons (TPH) by method 8015 modified, and chloride by EPA method 300.0. Analytical results indicated soil samples CS-1 through CS-4 exhibited TPH concentrations above Table I Closure Criteria at zero (0) to one half (0.5) a foot.

On February 2, 2023, NTGE conducted an additional delineation assessment whereby four (4) vertical sample points (S-1 through S-4) and four (4) horizontal sample points were taken to further delineate the area. The samples were collected from depths ranging from zero (0) to three and a half (3.5) feet below ground surface (ft bgs) with a geotechnical hand auger. The samples were submitted to Eurofins Laboratory, Midland, Texas for analyses of BTEX, TPH, and chloride. Analysis indicated that one (1) sample (S-1) exhibited chloride concentration above Table I Closure Criteria at depths of zero (0) to three and a half (3.5). Analytical results also indicated that three (3) samples S-2 through S-4, exhibited TPH concentrations that exceeded the Table 1 Closure Criteria. Analytical data also showed that sample S-1 exhibited BTEX concentrations that exceeded the table

I Closure Criteria at one (1) foot bgs. Figure 3 depicts the initial delineation sample locations, analytical results are provided on Table 1, Summary of Soil Analytical Data, while laboratory reports are included in Appendix D.

5. Excavation and Confirmation Sampling

Based on initial delineations assessments made on December 29, 2022, and February 2, 2023, Earthstone contracted Standard Safety and Supply (SS) to perform remedial actions at the Site to include the excavation and disposal of impacted soils above the regulatory limits. On February 16 and 17th SS and NTGE performed remedial activities of the impacted area. The release area was excavated to depths ranging from one (1) to three (3) ft bgs as depicted on Figure 4.

On February 17th 2023, a total of eleven (11) composite confirmation samples were collected from the excavation base (CS-1 - CS-11) and four (4) composite confirmation samples were collected from the excavation sidewalls (SW-1 - SW-4) to ensure impacted soil was removed. The samples were submitted to Eurofins Laboratory, Midland, Texas for analyses of BTEX, TPH, and chloride. Analytical results indicated that all samples exhibited concentrations below Table I Closure Criteria.

Upon review of sample locations, it was determined that two (2) additional sidewall samples were needed. On March 1, 2023, NTGE conducted another site visit and collected SW-5 and SW-6. The samples were submitted to Eurofins Laboratory, Midland, Texas for analyses of BTEX, TPH, and chloride. Analytical results indicated that all samples exhibited concentrations below Table I Closure Criteria.

The confirmation samples were collected from areas representing no greater than two hundred (200) square ft. Figure 4 depicts confirmation sample location, analytical results are provided on Table 1, Summary of Soil Analytical Data, and laboratory reports are provided in Appendix D. Confirmation sampling Notifications are attached in Appendix B and Site Photographs are provided in Appendix C.

6. Soils Disposition and Closure Request

On February 20, 2023, approximately 93 tons of impacted soils were transported offsite for disposal at the Lea Land, LLC facility located at MM 64, Highway 62/108 East, Carlsbad, New Mexico for final disposition. Manifests are available upon request. The final excavation extent and confirmation sample locations are depicted in Figure 4. Analytical results of the confirmation samples are included in Table 1.

The excavation was backfilled with non-impacted material. Site characterization, soil delineation, and remediation activities for this incident number have been performed in accordance with applicable NMOCD guidance and regulations. The Release Notification, Site Assessment/Characterization, and Closure portions of Form C-141 are attached to the front of this report. Based upon supporting documentation provided in this report, NTGE, on behalf of Earthstone, respectfully requests closure with no further regulatory

action for nAPP2236449532.

If you have any questions regarding this report or need additional information, please contact us at 432-766-1918.

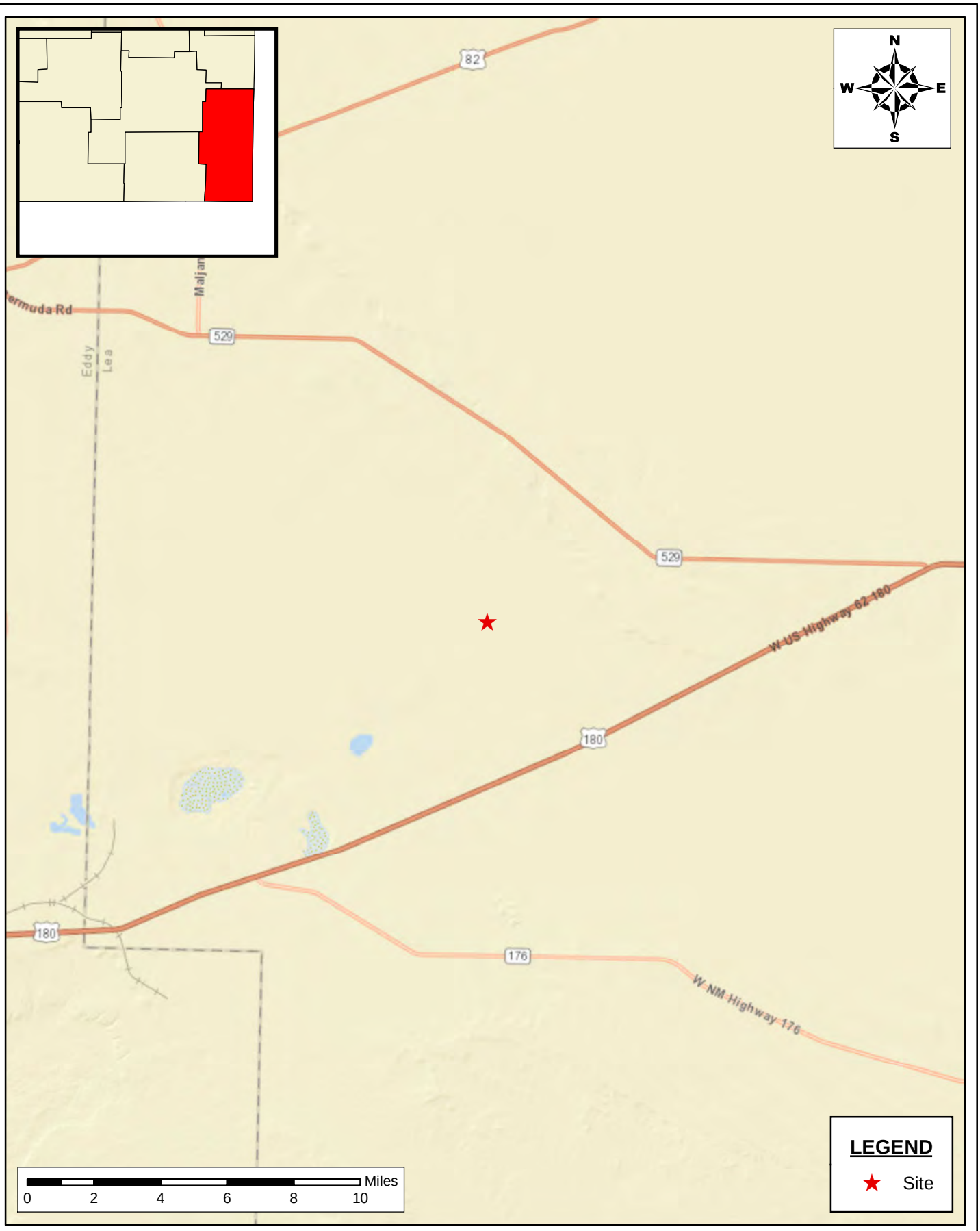
Sincerely,
NTG Environmental

Rebecca Haskell
Senior Project Manager

Attachments:

- Figure 1 – Site Location Map
- Figure 2 – Area Map
- Figure 3 – Initial Assessment Map
- Figure 4 – Excavation and Confirmation Sample Map
- Table 1 – Summary of Soil Analytical Data
- Appendix A: Site Characterization Documentation
- Appendix B: Confirmation Sampling Notifications
- Appendix C: Photographic Logs
- Appendix D: Laboratory Analytical Reports and Chain-of Custody Documentation

FIGURES



Document Path: P:\2022 PROJECTS\EARTHSTONE ENERGY\RSC\226666 Buffalo 12-1 Federal 2BS Com #5H\7 - Figures\GIS\Figure_1_area Map_DH.mxd

Area Location Map
Earthstone Energy
Buffalo 12-1 Federal 2 BS Com #5H
Lea County, New Mexico
32.667881°, -103.610496°

SCALE: As Shown	DATE: 1/3/2023	PROJECT #: 226535

New Tech Global Environmental, LLC
911 Regional Park Drive
Houston, Texas 77060
T - 281.872.9300
F - 281.872.4521
Web: www.ntglobal.com

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

Site Map
Earthstone Energy
Buffalo 12-1 Federal 2 BS Com #5H
Lea County, New Mexico
32.667881°, -103.610496°

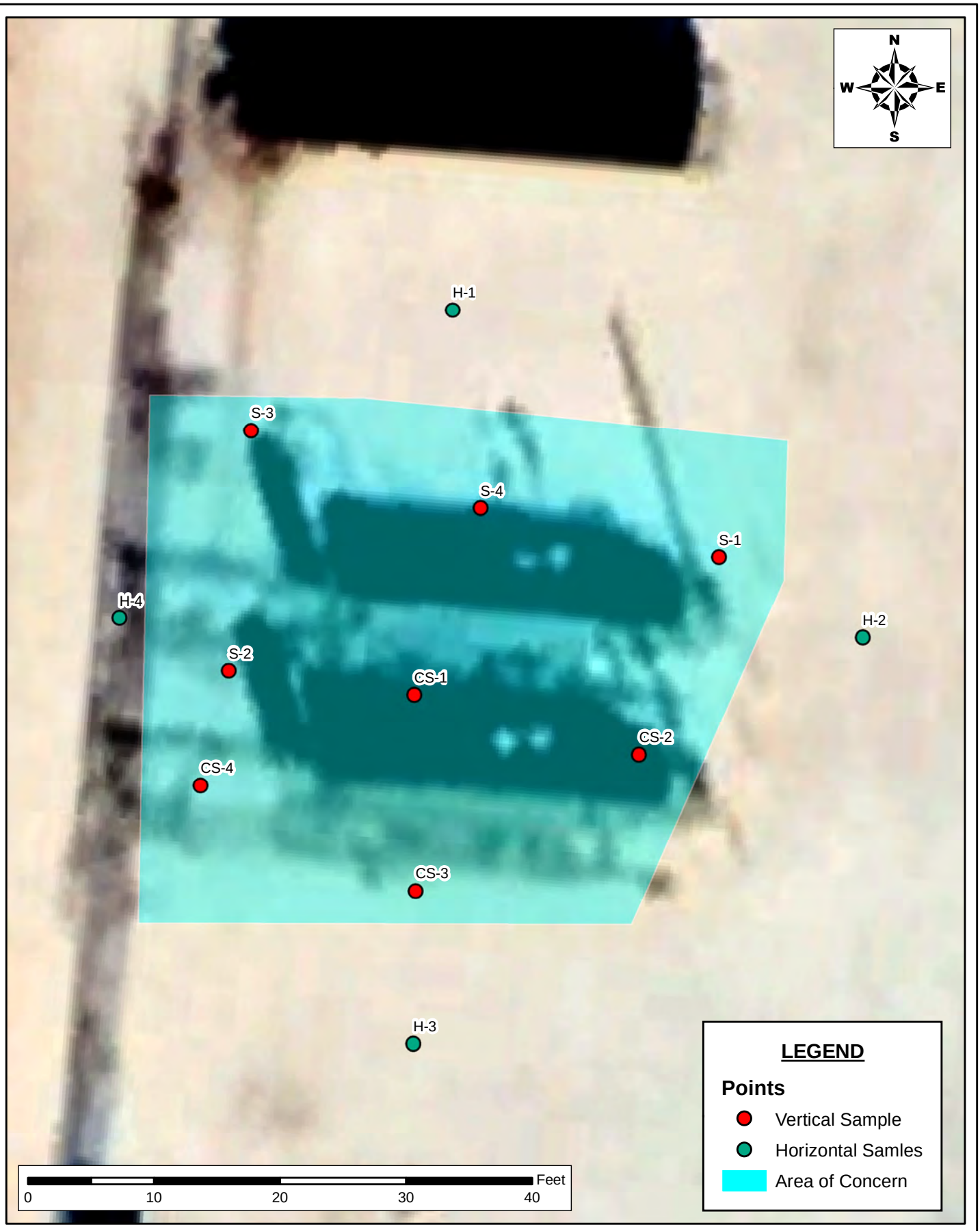
SCALE: As Shown	DATE: 1/3/2023	PROJECT #: 226535

New Tech Global Environmental, LLC
911 Regional Park Drive
Houston, Texas 77060
T - 281.872.9300
F - 281.872.4521
Web: www.ntglobal.com

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

Document Path: P:\2022 PROJECTS\EARTHSTONE ENERGY\RSC\226666 Buffalo 12-1 Federal 2BS Com #5H\7 - Figures\GIS\Figure_2_Site Map_DH.mxd



Document Path: P:\2022 PROJECTS\EARTHSTONE ENERGY\RSC\226666 Buffalo 12-1 Federal 2BS Com #5H\7 - Figures\GIS\Figure_3_IA_DH.mxd

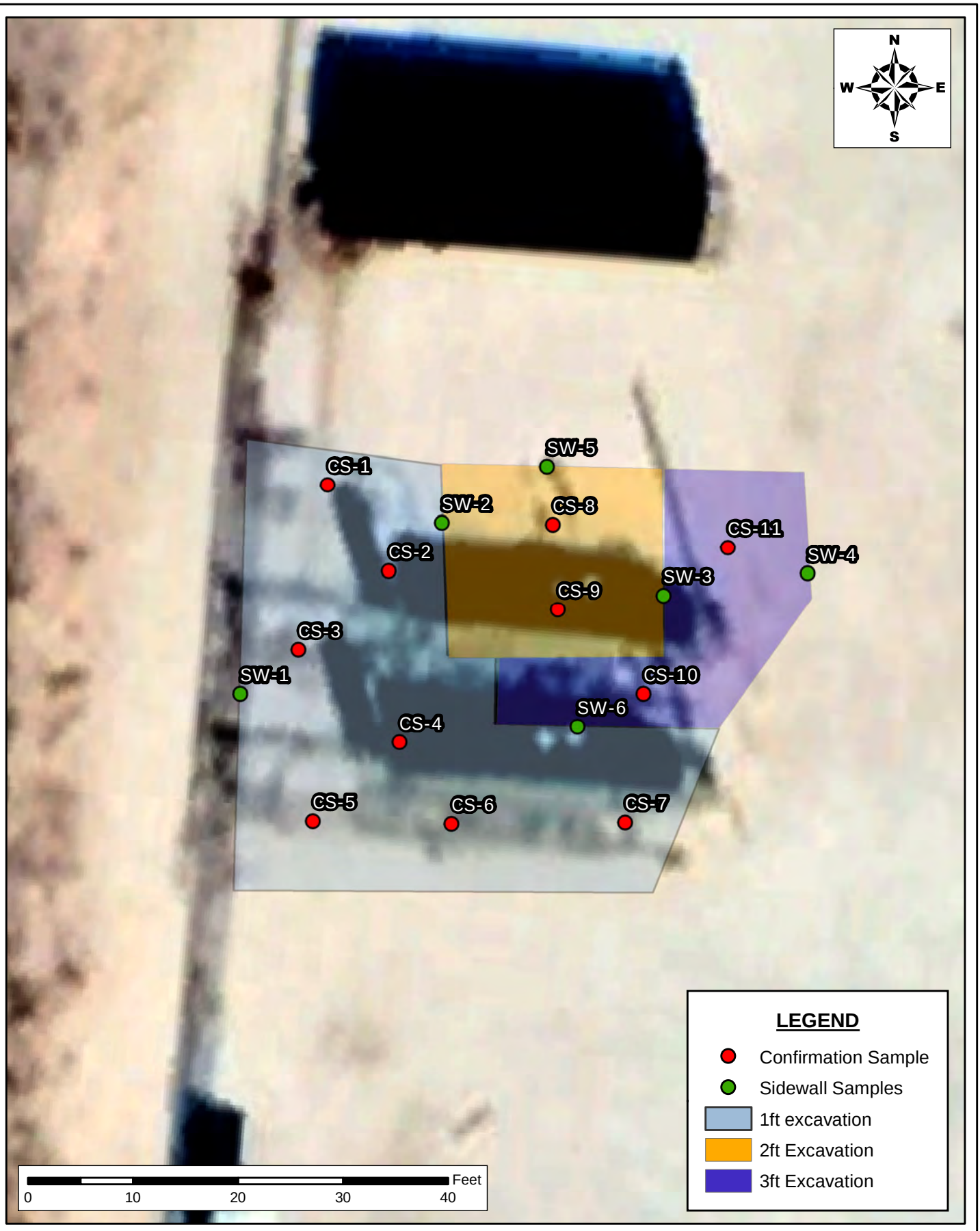
Initial Assessment Map
Earthstone Energy
Buffalo 12-1 Federal 2 BS Com #5H
Lea County, New Mexico
32.667881°, -103.610496°

SCALE: As Shown	DATE: 3/2/2023	PROJECT #: 226535

New Tech Global Environmental, LLC
911 Regional Park Drive
Houston, Texas 77060
T - 281.872.9300
F - 281.872.4521
Web: www.ntglobal.com

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



Document Path: P:\2022 PROJECTS\EARTHSTONE ENERGY\RSC\226666 Buffalo 12-1 Federal 2BS Com #5H\7 - Figures\GIS\Figure_4_cm_DH.mxd

Excavation and Confirmation Sample Map
Earthstone Energy
Buffalo 12-1 Federal 2 BS Com #5H
Lea County, New Mexico
32.667881°, -103.610496°

SCALE: As Shown	DATE: 3/2/2023	PROJECT #: 226535

New Tech Global Environmental, LLC
911 Regional Park Drive
Houston, Texas 77060
T - 281.872.9300
F - 281.872.4521
Web: www.ntglobal.com

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

DRAWING NUMBER:
FIGURE 4
SHEET NUMBER:
1 of 1

TABLES

Released to Imaging: 4/25/2023 11:41:33 AM

Received by OCD: 3/18/2023 12:00:12 AM

Table 1
Summary of Soil Analytical Data
Buffalo 12-1 Federal com2BS 5H
Earthstone energy
Lea County, New Mexico

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH					Chloride
								GRO (C6-C-10)	DRO (C10-C28)	GRO + DRO	MRO (C28-C35)	Total GRO/DRO/MRO	
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
			Table I Closure Criteria for Soil >100 feet Depth to Groundwater 19.15.29 NMAC										
			10 mg/kg	---	---	---	50 mg/kg	---	---	---	---	100 mg/kg	600 mg/kg
Initial Assessment Samples													
CS-1 (0-6")	12/29/2022	0-0.5	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	**312**	**312**	**156**	**468**	**140**
CS-1 (6"-1')	12/29/2022	0.5-1	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	**312**
CS-2 (0-6")	12/29/2022	0-0.5	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.9	**273**	**273**	**138**	**411**	**258**
CS-2 (6"-1')	12/29/2022	0.5-1	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	**380**
CS-3 (0-6")	12/29/2022	0-0.5	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	**303**	**303**	**159**	**462**	**272**
CS-3 (6"-1')	12/29/2022	0.5-1	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	**365**
CS-4 (0-6")	12/29/2022	0-0.5	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<50.0	**171**	**171**	**90.2**	**261**	**127**
CS-4 (6"-1')	12/29/2022	0.5-1	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	**323**
H-1	2/2/2023	N/A	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	<49.8	<49.8	<49.8	<49.8	<49.8	**466**
H-2	2/2/2023	N/A	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	**127**
H-3	2/2/2023	N/A	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	**120**
H-4	2/2/2023	N/A	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	**213**
S-1(0-1)	2/2/2023	1	<0.0402	**3.09**	**21.7**	**28.6**	**50.6**	<50.0	<50.0	<50.0	<50.0	<50.0	**5680**
S-1(1-1.5)	2/2/2023	1.5	<0.0396	**0.0886**	**0.0938**	<0.0792	**0.229**	<50.0	<50.0	<50.0	<50.0	<50.0	**1470**
S-1(2-2.5)	2/2/2023	2.5	<0.00199	**0.00359**	**0.0153**	**0.0226**	**0.0415**	<49.9	<49.9	<49.9	<49.9	<49.9	**713**
S-1(3-3.5)	2/2/2023	3.5	<0.00200	<0.00200	**0.0024**	<0.00399	**0.00457**	<49.9	<49.9	<49.9	<49.9	<49.9	**687**
S-2(0-1)	2/2/2023	1	<0.00201	<0.00201	**0.00416**	<0.00402	**0.00416**	<49.9	**318**	**318**	<49.9	**318**	**395**
S-2(1-1.5)	2/2/2023	1.5	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	**231**
S-3(0-1)	2/2/2023	1	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	**522**	**522**	<50.0	**522**	**208**
S-3(1-1.5)	2/2/2023	1.5	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	**169**
S-3(2-2.5)	2/2/2023	2.5	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	**74.6**
S-3(3-3.5)	2/2/2023	3.5	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	**252**
S-4(0-1)	2/2/2023	1	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	**148**
S-4(1-1.5)	2/2/2023	1.5	<0.0402	<0.0402	<0.0402	<0.0805	<0.0805	<49.9	**191**	**191**	<49.9	**191**	**154**
S-4(2-2.5)	2/2/2023	2.5	<0.0401	<0.0401	<0.0401	<0.0802	<0.0802	<49.9	<49.9	<49.9	<49.9	<49.9	**8.54**
S-4(3-3.5)	2/2/2023	3.5	<0.0398	<0.0398	<0.0398	<0.0797	<0.0797	<49.9	<49.9	<49.9	<49.9	<49.9	**15.5**
Confirmation Samples													
CS-1	2/17/2023	1	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	**58.6**
CS-2	2/17/2023	1	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	**59.9**
CS-3	2/17/2023	1	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	**37.5**
CS-4	2/17/2023	1	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	**102**
CS-5	2/17/2023	1	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	**89.5**
CS-6	2/17/2023	1	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	**67.3**
CS-7	2/17/2023	1	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	**163**
CS-8	2/17/2023	2	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	<4.97
CS-9	2/17/2023	2	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	**8.99**
CS-10	2/17/2023	3	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	**19.2**
CS-11	2/17/2023	3	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	**5.03**
SW-1	2/17/2023	0 - 1	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	**31.1**
SW-2	2/17/2023	1 - 2	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	**68**
SW-3	2/17/2023	2 - 3	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	**8.84**

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Summary of Soil Analytical Data
Buffalo 12-1 Federal com2BS 5H
Earthstone energy
Lea County, New Mexico

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH					Chloride
								GRO (C6-C-10)	DRO (C10-C28)	GRO + DRO	MRO (C28-C35)	Total GRO/DRO/MRO	
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
			Table I Closure Criteria for Soil >100 feet Depth to Groundwater 19.15.29 NMAC										
			10 mg/kg	---	---	---	50 mg/kg	---	---	---	---	100 mg/kg	600 mg/kg
SW-4	2/17/2023	0 - 3	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	**77.9**
SW-5	3/3/2023	0 - 2	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	**65.2**
SW-6	3/3/2023	1 - 3.5	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	**124**

Notes:

1. Values reported in mg/kg
2.< = Value Less Than Reporting Limit (RL)
3. Bold indicates Analyte Detected
4. BTEX analyses by EPA Method SW 8021B
~~SP-1~~ Sample Point Excavated
5. TPH analyses by EPA Method SW 8015 Mod.
6. GRO/DRO/MRO - Gasoline/Diesel/Motor Oil
7. Yellow shaded cells indicate analytical samples that exceed the NMAC 19.15.29.12 TableI Closure Criteria for the site.
8. Peach shaded cells indicate analytical samples that exceed the NMAC 19.15.29.13 Table I Closure Criteria for the site (Surface to 4 Feet Below Grade).

ATTACHMENT A: SITE CHARACTERIZATION DOCUMENTATION

Site Characterization

3/17/2023, 2:50:49 PM

OSE PODs
- Active
- Inactive
- Pending
- Changed Location of Well
- Capped
- Plugged
- Unknown

Karst Occurrence Potential
- Low
- PLSS First Division
- PLSS Second Division

1:1,128

0 0.01 0.02 0.04 mi

0 0.02 0.04 0.07 km

BLM, OCD, New Mexico Tech, Maxar, Microsoft, OSE GIS, USGS, Esri, HERE, Garmin, iPC, NM OSE, BLM

New Mexico Oil Conservation Division

NM OCD Oil and Gas Map. http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f8f35ca75: New Mexico Oil Conservation Division

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Received by OCD: 3/18/2023 12:00:12 AM

OSE POD Locations Map

3/17/2023, 2:39:23 PM

GIS WATERS PODs
- Plugged
- OSE District Boundary

Water Right Regulations
- Closure Area
- New Mexico State Trust Lands
- Both Estates

NHD Flowlines
- Pipeline
- SiteBoundaries

1:18,056

0 0.17 0.35 0.7 mi

0 0.3 0.6 1.2 km

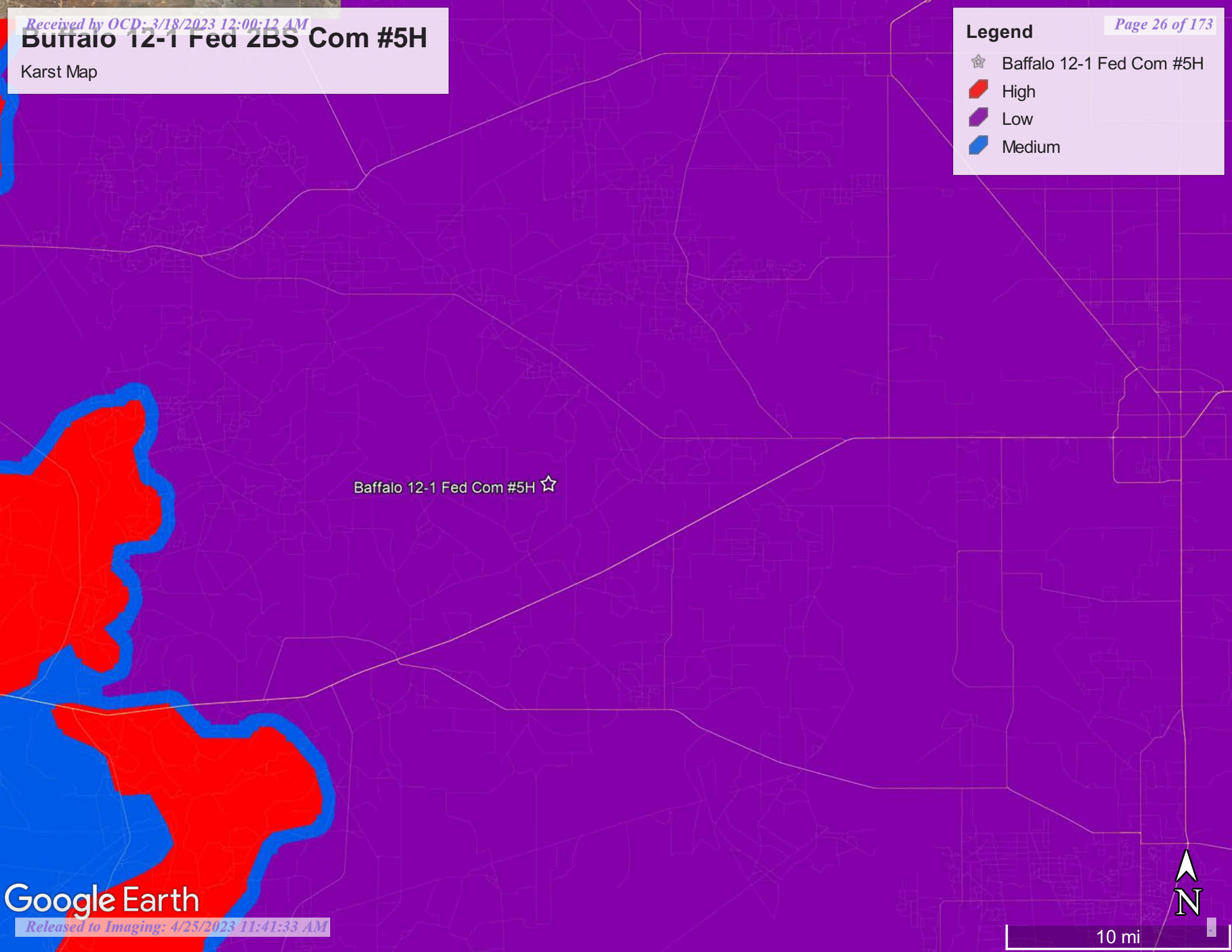
Esri, HERE, iPC, U.S. Department of Energy Office of Legacy Management, Esri, HERE, Garmin, iPC, Maxar

Web Generated Map
Map is generated by web users.

Received by OCD: 3/18/2023 12:00:12 AM

Buffalo 12-1 Fed 2BS Com #5H

Karst Map



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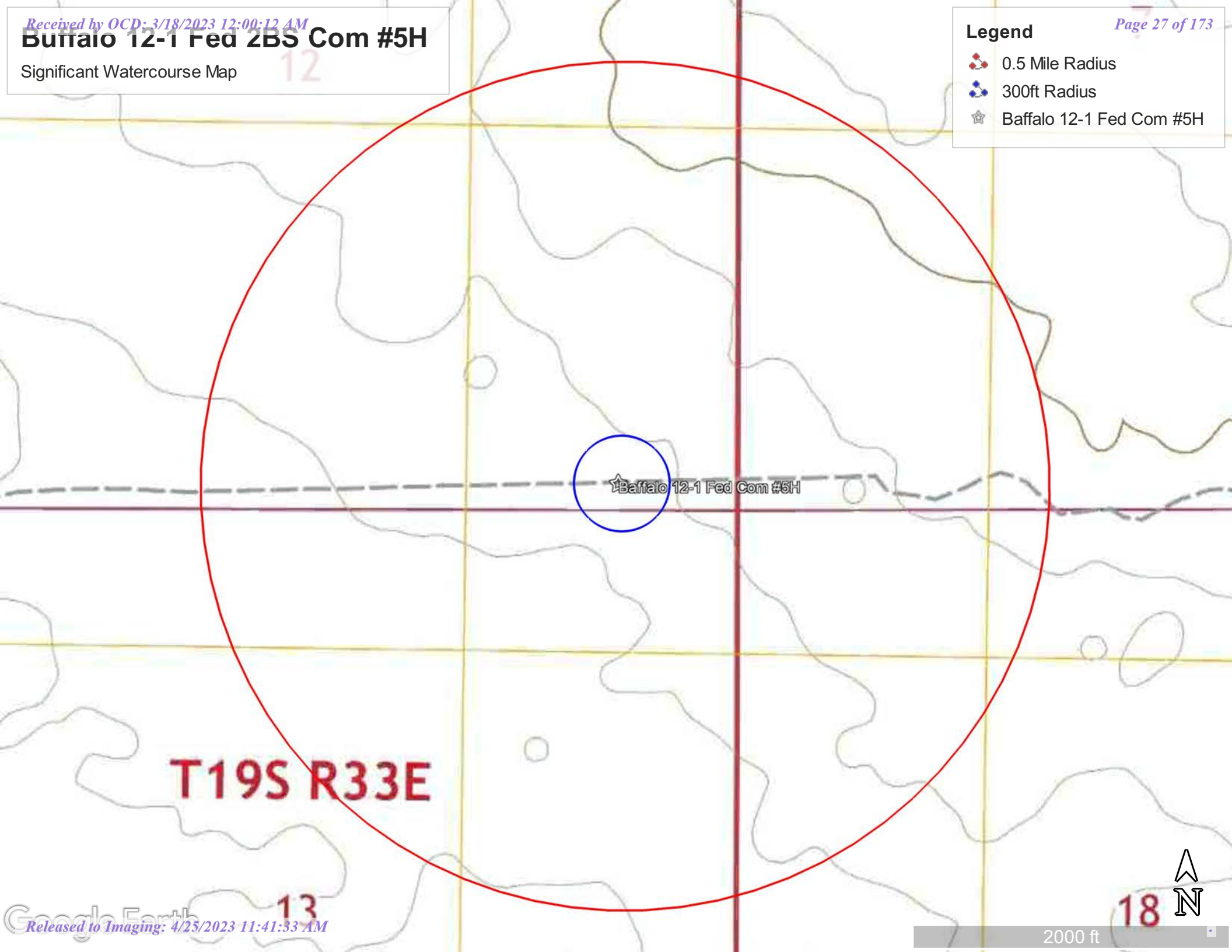
Buffalo 12-1 Fed 2BS Com #5H

Significant Watercourse Map

Legend

- 0.5 Mile Radius
- 300ft Radius
- Baffalo 12-1 Fed Com #5H



Released to Imaging: 4/25/2023 11:41:33 AM

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U.S. Fish and Wildlife Service
National Wetlands Inventory

Wetland Mapper

January 3, 2023

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

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

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

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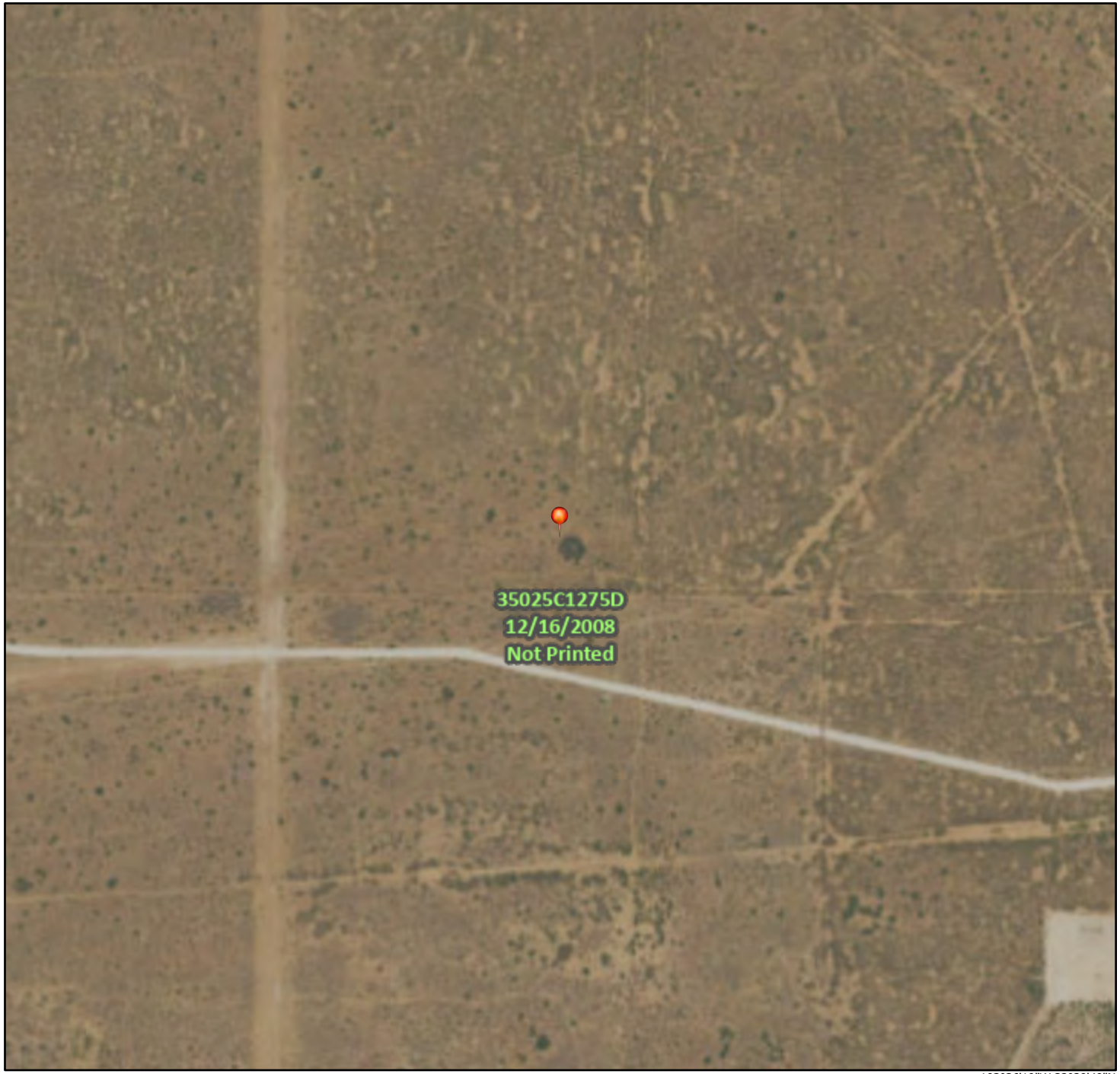
Received by OCD: 3/18/2023 12:00:12 AM

National Flood Hazard Layer FIRMette

FEMA

103°36'57"W 32°40'20"N



103°36'19"W 32°39'49"N

0 250 500 1,000 1,500 2,000 Feet

1:6,000

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 Cross Sections with 1% Annual Chance
- 17.5 Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 1/3/2023 at 11:31 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

Released to Imaging: 4/25/2023 11:41:33 AM

ATTACHMENT B: CONFIRMATION SAMPLING NOTIFICATION

Becky Haskell

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Monday, February 13, 2023 11:15 AM
To: Nicholas Hart; Nobui, Jennifer, EMNRD; Bratcher, Michael, EMNRD
Cc: Becky Haskell; Jeff Kindley; NTGE Carlsbad
Subject: RE: [EXTERNAL] Buffalo 12 1 Federal 2BS Com #005H (nAPP2236449532) Sampling Notification

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Nick,

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

JH

Jocelyn Harimon ● Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
http:// www.emnrd.nm.gov

From: Nicholas Hart <NHart@ntglobal.com>
Sent: Monday, February 13, 2023 9:56 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Becky Haskell <bhaskell@ntglobal.com>; Jeff Kindley <jkindley@ntglobal.com>; NTGE Carlsbad <ntge_carlsbad@ntglobal.com>
Subject: [EXTERNAL] Buffalo 12 1 Federal 2BS Com #005H (nAPP2236449532) Sampling Notification

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

Good Morning,

NTGE, on behalf of Earthstone Operating, LLC, respectfully submits notification of sampling to be conducted at the below location.

Buffalo 12 1 Federal 2BS #005H
O-12-19S-33E
Lea County, NM
nAPP2236449532

Sampling will begin at 10:00 a.m. on Wednesday, February 15, 2023 continuous through February 17, 2023.

Thank You,

Nick Hart
Project Manager | Geologist
701 Tradewinds Blvd, Suite C | Midland, Texas 79706
W: 432-444-3047 P: 432-770-1832 | nhart@ntglobal.com |www.ntglobal.com

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Becky Haskell

From: Kenny Han
Sent: Tuesday, February 28, 2023 5:03 PM
To: NMOCD (ocd.enviro@state.nm.us)
Cc: NTGE Carlsbad
Subject: 48 hr Sampling notification

Good Afternoon,

NTGE, on behalf of Earthstone Operating, LLC, respectfully submits notification of sampling to be conducted at the below location.

SOMBRERO 18 FEDERAL COM TANK BATTERY
N-07-21S-33E
Lea County, NM
NAPP2232138798

BUFFALO 12 1 FEDERAL 2BS COM #005H
O-12-19S-33E
Lea County, NM
NAPP2236449532

Sampling will begin at 10:00 am Friday, March 3, 2023.

Sincerely,
Kenny Han
Staff Scientest
NTG Environmental New Mexico
402 E Wood Ave, Carlsbad, NM 88220
M: 512-496-4197 W: 575-988-8856
Email: Khan@ntglobal.com
http://www.ntgenvironmental.com/

ATTACHMENT C: PHOTOGRAPHIC LOG

PHOTOGRAPHIC LOG

Buffalo 12-1 Federal 2BS Com #005H

Photograph No. 1

Facility: Buffalo 12-1 Federal 2BS Com #005H

County: Lea County, New Mexico

Description:
Area of excavation.

Photograph No. 2

Facility: Buffalo 12-1 Federal 2BS Com #005H

County: Lea County, New Mexico

Description:
Area of excavation.

Photograph No. 3

Facility: Buffalo 12-1 Federal 2BS Com #005H

County: Lea County, New Mexico

Description:
Area of excavation

PHOTOGRAPHIC LOG

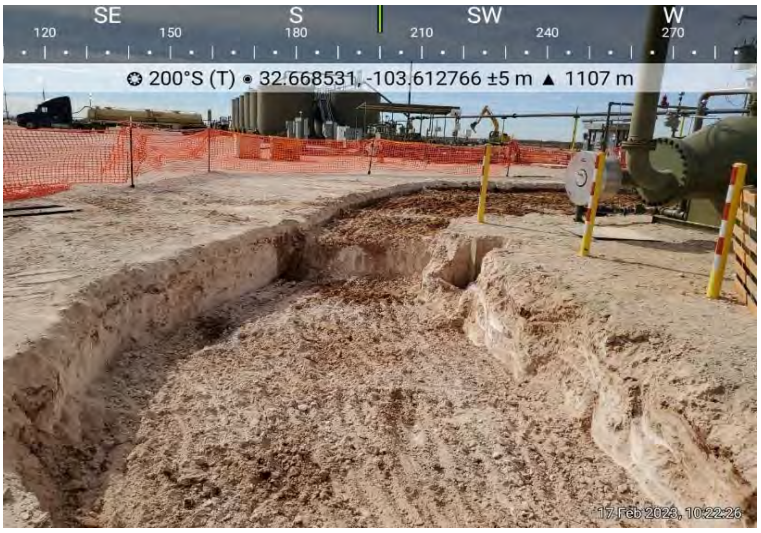
Buffalo 12-1 Federal 2BS Com #005H

Photograph No. 4

Facility: Buffalo 12-1 Federal 2BS Com #005H

County: Lea County, New Mexico

Description:
Area of excavation.



Photograph No. 5

Facility: Buffalo 12-1 Federal 2BS Com #005H

County: Lea County, New Mexico

Description:
Area of excavation.

Photograph No. 6

Facility: Buffalo 12-1 Federal 2BS Com #005H

County: Lea County, New Mexico

Description:
Area of excavation

PHOTOGRAPHIC LOG

Buffalo 12-1 Federal 2BS Com #005H

Photograph No. 7

Facility: Buffalo 12-1 Federal 2BS Com #005H

County: Lea County, New Mexico

Description:
Area of excavation.

Photograph No. 8

Facility: Buffalo 12-1 Federal 2BS Com #005H

County: Lea County, New Mexico

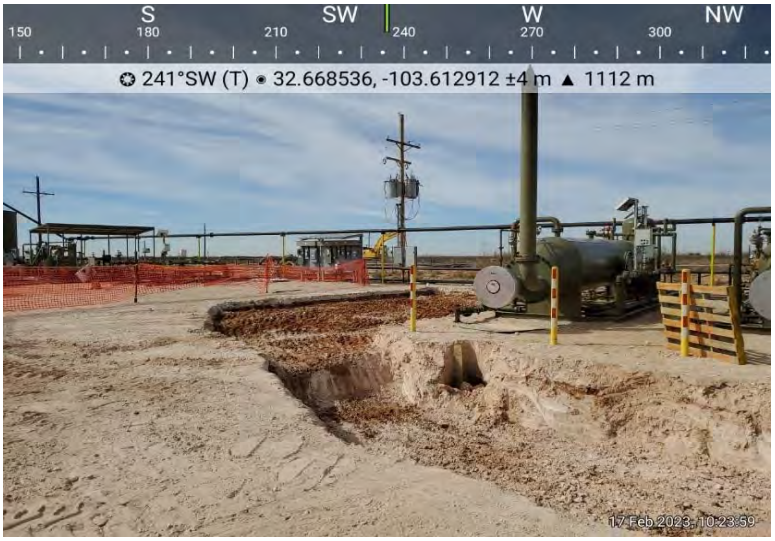
Description:
Area of excavation.

Photograph No. 9

Facility: Buffalo 12-1 Federal 2BS Com #005H

County: Lea County, New Mexico

Description:
Area of excavation



ATTACHMENT D: LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENATION

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Becky Haskell
NT Global
701 Tradewinds Blvd
Midland, Texas 79706

Generated 1/9/2023 11:48:04 AM

JOB DESCRIPTION

Buffalo 12-1 Federal Com 2BS 5H
SDG NUMBER Eddy Co, NM

JOB NUMBER

880-23201-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 4/25/2023 11:41:35 AM

my EOL

Eurofins Midland

Job Notes

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

Authorization

Generated
1/9/2023 11:48:04 AM

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

Client: NT Global
Project/Site: Buffalo 12-1 Federal Com 2BS 5H

Laboratory Job ID: 880-23201-1
SDG: Eddy Co, NM

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Definitions/Glossary

Client: NT Global
Project/Site: Buffalo 12-1 Federal Com 2BS 5H

Job ID: 880-23201-1
SDG: Eddy Co, NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
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: NT Global
Project/Site: Buffalo 12-1 Federal Com 2BS 5H

Job ID: 880-23201-1
SDG: Eddy Co, NM

Job ID: 880-23201-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-23201-1

Receipt
The samples were received on 12/30/2022 1:43 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 3.0°C

Receipt Exceptions
The following samples analyzed for method <TPH 8015> were received and analyzed from an unpreserved bulk soil jar

GC VOA
Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-43267 and analytical batch 880-43325 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

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

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-43054 and analytical batch 880-43286 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: NT Global
Project/Site: Buffalo 12-1 Federal Com 2BS 5H

Job ID: 880-23201-1
SDG: Eddy Co, NM

Client Sample ID: CS-1 (0-6")

Date Collected: 12/29/22 00:00
Date Received: 12/30/22 13:43

Lab Sample ID: 880-23201-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/05/23 13:12	01/06/23 11:12	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/05/23 13:12	01/06/23 11:12	1
Ethylbenzene	<0.00199	U F1	0.00199		mg/Kg		01/05/23 13:12	01/06/23 11:12	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/05/23 13:12	01/06/23 11:12	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/05/23 13:12	01/06/23 11:12	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/05/23 13:12	01/06/23 11:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*01/05/23 13:12*	*01/06/23 11:12*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*01/05/23 13:12*	*01/06/23 11:12*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/06/23 15:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**468**		49.9		mg/Kg			01/05/23 10:36	1

Method: SW846 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		01/04/23 08:24	01/04/23 15:31	1
Diesel Range Organics (Over C10-C28)	**312**		49.9		mg/Kg		01/04/23 08:24	01/04/23 15:31	1
Oil Range Organics (Over C28-C36)	**156**		49.9		mg/Kg		01/04/23 08:24	01/04/23 15:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*112*		*70 - 130*	*01/04/23 08:24*	*01/04/23 15:31*	*1*
o-Terphenyl	*98*		*70 - 130*	*01/04/23 08:24*	*01/04/23 15:31*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**140**	**F1**	5.03		mg/Kg			01/06/23 19:07	1

Client Sample ID: CS-1 (6"-1')

Date Collected: 12/29/22 00:00
Date Received: 12/30/22 13:43

Lab Sample ID: 880-23201-2
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		01/05/23 13:12	01/06/23 11:33	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/05/23 13:12	01/06/23 11:33	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/05/23 13:12	01/06/23 11:33	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		01/05/23 13:12	01/06/23 11:33	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/05/23 13:12	01/06/23 11:33	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		01/05/23 13:12	01/06/23 11:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*01/05/23 13:12*	*01/06/23 11:33*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*01/05/23 13:12*	*01/06/23 11:33*	*1*

Client Sample Results

Client: NT Global
Project/Site: Buffalo 12-1 Federal Com 2BS 5H

Job ID: 880-23201-1
SDG: Eddy Co, NM

Client Sample ID: CS-1 (6"-1')

Lab Sample ID: 880-23201-2
Matrix: Solid
Date Collected: 12/29/22 00:00
Date Received: 12/30/22 13:43

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			01/06/23 15:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/05/23 10:36	1

Method: SW846 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		01/04/23 08:24	01/04/23 15:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/04/23 08:24	01/04/23 15:53	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/04/23 08:24	01/04/23 15:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*01/04/23 08:24*	*01/04/23 15:53*	*1*
o-Terphenyl	*92*		*70 - 130*	*01/04/23 08:24*	*01/04/23 15:53*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**312**		5.00		mg/Kg			01/06/23 19:22	1

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

Lab Sample ID: 880-23201-3
Matrix: Solid
Date Collected: 12/29/22 00:00
Date Received: 12/30/22 13:43

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/05/23 13:12	01/06/23 17:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/05/23 13:12	01/06/23 17:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/05/23 13:12	01/06/23 17:10	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/05/23 13:12	01/06/23 17:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/05/23 13:12	01/06/23 17:10	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/05/23 13:12	01/06/23 17:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*01/05/23 13:12*	*01/06/23 17:10*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*01/05/23 13:12*	*01/06/23 17:10*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/09/23 11:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**411**		49.9		mg/Kg			01/05/23 10:36	1

Method: SW846 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		01/04/23 08:24	01/04/23 16:37	1
Diesel Range Organics (Over C10-C28)	**273**		49.9		mg/Kg		01/04/23 08:24	01/04/23 16:37	1

Eurofins Midland

Client Sample Results

Client: NT Global
Project/Site: Buffalo 12-1 Federal Com 2BS 5H

Job ID: 880-23201-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-23201-3
Matrix: Solid
Date Collected: 12/29/22 00:00
Date Received: 12/30/22 13:43

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	138		49.9		mg/Kg		01/04/23 08:24	01/04/23 16:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*112*		*70 - 130*	*01/04/23 08:24*	*01/04/23 16:37*	*1*
o-Terphenyl	*98*		*70 - 130*	*01/04/23 08:24*	*01/04/23 16:37*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	258		4.97		mg/Kg			01/06/23 19:26	1

Client Sample ID: CS-2 (6"-1')

Lab Sample ID: 880-23201-4
Matrix: Solid
Date Collected: 12/29/22 00:00
Date Received: 12/30/22 13:43

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/05/23 13:12	01/06/23 17:30	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/05/23 13:12	01/06/23 17:30	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/05/23 13:12	01/06/23 17:30	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/05/23 13:12	01/06/23 17:30	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/05/23 13:12	01/06/23 17:30	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/05/23 13:12	01/06/23 17:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*01/05/23 13:12*	*01/06/23 17:30*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*01/05/23 13:12*	*01/06/23 17:30*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/09/23 11:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/05/23 10:36	1

Method: SW846 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		01/04/23 08:24	01/04/23 17:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/04/23 08:24	01/04/23 17:00	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/04/23 08:24	01/04/23 17:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*01/04/23 08:24*	*01/04/23 17:00*	*1*
o-Terphenyl	*97*		*70 - 130*	*01/04/23 08:24*	*01/04/23 17:00*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	380		5.05		mg/Kg			01/06/23 19:31	1

Client Sample Results

Client: NT Global
Project/Site: Buffalo 12-1 Federal Com 2BS 5H

Job ID: 880-23201-1
SDG: Eddy Co, NM

Client Sample ID: CS-3 (0-6")

Lab Sample ID: 880-23201-5
Matrix: Solid
Date Collected: 12/29/22 00:00
Date Received: 12/30/22 13:43

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/05/23 13:12	01/06/23 17:51	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/05/23 13:12	01/06/23 17:51	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/05/23 13:12	01/06/23 17:51	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/05/23 13:12	01/06/23 17:51	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/05/23 13:12	01/06/23 17:51	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/05/23 13:12	01/06/23 17:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*01/05/23 13:12*	*01/06/23 17:51*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*01/05/23 13:12*	*01/06/23 17:51*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/09/23 11:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**462**		50.0		mg/Kg			01/05/23 10:36	1

Method: SW846 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		01/04/23 08:24	01/04/23 17:22	1
Diesel Range Organics (Over C10-C28)	**303**		50.0		mg/Kg		01/04/23 08:24	01/04/23 17:22	1
Oil Range Organics (Over C28-C36)	**159**		50.0		mg/Kg		01/04/23 08:24	01/04/23 17:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*01/04/23 08:24*	*01/04/23 17:22*	*1*
o-Terphenyl	*92*		*70 - 130*	*01/04/23 08:24*	*01/04/23 17:22*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**272**		4.99		mg/Kg			01/06/23 19:36	1

Client Sample ID: CS-3 (6"-1')

Lab Sample ID: 880-23201-6
Matrix: Solid
Date Collected: 12/29/22 00:00
Date Received: 12/30/22 13:43

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/05/23 13:12	01/06/23 18:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/05/23 13:12	01/06/23 18:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/05/23 13:12	01/06/23 18:12	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		01/05/23 13:12	01/06/23 18:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/05/23 13:12	01/06/23 18:12	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/05/23 13:12	01/06/23 18:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*01/05/23 13:12*	*01/06/23 18:12*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*01/05/23 13:12*	*01/06/23 18:12*	*1*

Client Sample Results

Client: NT Global
Project/Site: Buffalo 12-1 Federal Com 2BS 5H

Job ID: 880-23201-1
SDG: Eddy Co, NM

Client Sample ID: CS-3 (6"-1')

Lab Sample ID: 880-23201-6
Matrix: Solid
Date Collected: 12/29/22 00:00
Date Received: 12/30/22 13:43

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			01/09/23 11:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/05/23 10:36	1

Method: SW846 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		01/04/23 08:24	01/04/23 17:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/04/23 08:24	01/04/23 17:45	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/04/23 08:24	01/04/23 17:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*01/04/23 08:24*	*01/04/23 17:45*	*1*
o-Terphenyl	*94*		*70 - 130*	*01/04/23 08:24*	*01/04/23 17:45*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**365**		5.01		mg/Kg			01/06/23 19:51	1

Client Sample ID: CS-4 (0-6")

Lab Sample ID: 880-23201-7
Matrix: Solid
Date Collected: 12/29/22 00:00
Date Received: 12/30/22 13:43

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/05/23 13:12	01/06/23 18:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/05/23 13:12	01/06/23 18:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/05/23 13:12	01/06/23 18:32	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/05/23 13:12	01/06/23 18:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/05/23 13:12	01/06/23 18:32	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/05/23 13:12	01/06/23 18:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*01/05/23 13:12*	*01/06/23 18:32*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*01/05/23 13:12*	*01/06/23 18:32*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/09/23 11:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**261**		50.0		mg/Kg			01/05/23 10:36	1

Method: SW846 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		01/04/23 08:24	01/04/23 18:05	1
Diesel Range Organics (Over C10-C28)	**171**		50.0		mg/Kg		01/04/23 08:24	01/04/23 18:05	1

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Client Sample Results

Client: NT Global
Project/Site: Buffalo 12-1 Federal Com 2BS 5H

Job ID: 880-23201-1
SDG: Eddy Co, NM

Client Sample ID: CS-4 (0-6")

Lab Sample ID: 880-23201-7
Matrix: Solid
Date Collected: 12/29/22 00:00
Date Received: 12/30/22 13:43

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	90.2		50.0		mg/Kg		01/04/23 08:24	01/04/23 18:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*01/04/23 08:24*	*01/04/23 18:05*	*1*
o-Terphenyl	*96*		*70 - 130*	*01/04/23 08:24*	*01/04/23 18:05*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	127		5.00		mg/Kg			01/06/23 19:56	1

Client Sample ID: CS-4 (6"-1')

Lab Sample ID: 880-23201-8
Matrix: Solid
Date Collected: 12/29/22 00:00
Date Received: 12/30/22 13:43

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/05/23 13:12	01/06/23 18:53	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/05/23 13:12	01/06/23 18:53	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/05/23 13:12	01/06/23 18:53	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/05/23 13:12	01/06/23 18:53	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/05/23 13:12	01/06/23 18:53	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/05/23 13:12	01/06/23 18:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*01/05/23 13:12*	*01/06/23 18:53*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*01/05/23 13:12*	*01/06/23 18:53*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/09/23 11:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/05/23 10:36	1

Method: SW846 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		01/04/23 08:24	01/04/23 18:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/04/23 08:24	01/04/23 18:25	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/04/23 08:24	01/04/23 18:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*01/04/23 08:24*	*01/04/23 18:25*	*1*
o-Terphenyl	*96*		*70 - 130*	*01/04/23 08:24*	*01/04/23 18:25*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	323		5.02		mg/Kg			01/06/23 20:01	1

Surrogate Summary

Client: NT Global
Project/Site: Buffalo 12-1 Federal Com 2BS 5H

Job ID: 880-23201-1
SDG: Eddy Co, 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)
880-23201-1	CS-1 (0-6")	120	78
880-23201-1 MS	CS-1 (0-6")	102	96
880-23201-1 MSD	CS-1 (0-6")	99	92
880-23201-2	CS-1 (6"-1')	116	100
880-23201-3	CS-2 (0-6")	118	92
880-23201-4	CS-2 (6"-1')	117	100
880-23201-5	CS-3 (0-6")	124	99
880-23201-6	CS-3 (6"-1')	122	99
880-23201-7	CS-4 (0-6")	126	101
880-23201-8	CS-4 (6"-1')	109	100
LCS 880-43267/1-A	Lab Control Sample	95	95
LCSD 880-43267/2-A	Lab Control Sample Dup	97	96
MB 880-43267/5-A	Method Blank	102	87

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)
880-23201-1	CS-1 (0-6")	112	98
880-23201-2	CS-1 (6"-1')	101	92
880-23201-3	CS-2 (0-6")	112	98
880-23201-4	CS-2 (6"-1')	107	97
880-23201-5	CS-3 (0-6")	104	92
880-23201-6	CS-3 (6"-1')	104	94
880-23201-7	CS-4 (0-6")	108	96
880-23201-8	CS-4 (6"-1')	106	96
890-3753-A-1-B MS	Matrix Spike	103	81
890-3753-A-1-C MSD	Matrix Spike Duplicate	101	79
LCS 880-43112/2-A	Lab Control Sample	113	93
LCSD 880-43112/3-A	Lab Control Sample Dup	112	92
MB 880-43112/1-A	Method Blank	121	114

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: NT Global
Project/Site: Buffalo 12-1 Federal Com 2BS 5H

Job ID: 880-23201-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-43267/5-A
Matrix: Solid
Analysis Batch: 43325

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 43267

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/05/23 13:12	01/06/23 10:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/05/23 13:12	01/06/23 10:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/05/23 13:12	01/06/23 10:51	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/05/23 13:12	01/06/23 10:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/05/23 13:12	01/06/23 10:51	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/05/23 13:12	01/06/23 10:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*01/05/23 13:12*	*01/06/23 10:51*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*01/05/23 13:12*	*01/06/23 10:51*	*1*

Lab Sample ID: LCS 880-43267/1-A
Matrix: Solid
Analysis Batch: 43325

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 43267

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1011		mg/Kg		101	70 - 130
Toluene	0.100	0.09684		mg/Kg		97	70 - 130
Ethylbenzene	0.100	0.08911		mg/Kg		89	70 - 130
m-Xylene & p-Xylene	0.200	0.1927		mg/Kg		96	70 - 130
o-Xylene	0.100	0.09524		mg/Kg		95	70 - 130

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

Lab Sample ID: LCSD 880-43267/2-A
Matrix: Solid
Analysis Batch: 43325

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 43267

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1062		mg/Kg		106	70 - 130	5	35
Toluene	0.100	0.1022		mg/Kg		102	70 - 130	5	35
Ethylbenzene	0.100	0.09183		mg/Kg		92	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1960		mg/Kg		98	70 - 130	2	35
o-Xylene	0.100	0.09738		mg/Kg		97	70 - 130	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: 880-23201-1 MS
Matrix: Solid
Analysis Batch: 43325

Client Sample ID: CS-1 (0-6")
Prep Type: Total/NA
Prep Batch: 43267

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0998	0.08556		mg/Kg		85	70 - 130
Toluene	<0.00199	U	0.0998	0.07942		mg/Kg		80	70 - 130

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QC Sample Results

Client: NT Global
Project/Site: Buffalo 12-1 Federal Com 2BS 5H

Job ID: 880-23201-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-23201-1 MS — **Client Sample ID: CS-1 (0-6")**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 43325 — **Prep Batch: 43267**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U F1	0.0998	0.06868	F1	mg/Kg		69	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1508		mg/Kg		76	70 - 130
o-Xylene	<0.00199	U	0.0998	0.07521		mg/Kg		75	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: 880-23201-1 MSD — **Client Sample ID: CS-1 (0-6")**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 43325 — **Prep Batch: 43267**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.09575		mg/Kg		95	70 - 130	11	35
Toluene	<0.00199	U	0.100	0.08902		mg/Kg		89	70 - 130	11	35
Ethylbenzene	<0.00199	U F1	0.100	0.07687		mg/Kg		77	70 - 130	11	35
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1675		mg/Kg		84	70 - 130	10	35
o-Xylene	<0.00199	U	0.100	0.08216		mg/Kg		81	70 - 130	9	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*

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

Lab Sample ID: MB 880-43112/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 43104 — **Prep Batch: 43112**

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		01/04/23 08:24	01/04/23 09:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/04/23 08:24	01/04/23 09:14	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/04/23 08:24	01/04/23 09:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*121*		*70 - 130*	*01/04/23 08:24*	*01/04/23 09:14*	*1*
o-Terphenyl	*114*		*70 - 130*	*01/04/23 08:24*	*01/04/23 09:14*	*1*

Lab Sample ID: LCS 880-43112/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 43104 — **Prep Batch: 43112**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	937.8		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)	1000	851.1		mg/Kg		85	70 - 130

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QC Sample Results

Client: NT Global
Project/Site: Buffalo 12-1 Federal Com 2BS 5H

Job ID: 880-23201-1
SDG: Eddy Co, NM

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

Lab Sample ID: LCS 880-43112/2-A
Matrix: Solid
Analysis Batch: 43104

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 43112

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	113		70 - 130
o-Terphenyl	93		70 - 130

Lab Sample ID: LCSD 880-43112/3-A
Matrix: Solid
Analysis Batch: 43104

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 43112

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	957.7		mg/Kg		96	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	876.0		mg/Kg		88	70 - 130	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	112		70 - 130
o-Terphenyl	92		70 - 130

Lab Sample ID: 890-3753-A-1-B MS
Matrix: Solid
Analysis Batch: 43104

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 43112

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	960.7		mg/Kg		94	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	999	799.8		mg/Kg		80	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	81		70 - 130

Lab Sample ID: 890-3753-A-1-C MSD
Matrix: Solid
Analysis Batch: 43104

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 43112

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	<49.9	U	999	965.7		mg/Kg		95	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	788.5		mg/Kg		79	70 - 130	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	101		70 - 130
o-Terphenyl	79		70 - 130

QC Sample Results

Client: NT Global
Project/Site: Buffalo 12-1 Federal Com 2BS 5H

Job ID: 880-23201-1
SDG: Eddy Co, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-43054/1-A
Matrix: Solid
Analysis Batch: 43286

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			01/06/23 18:52	1

Lab Sample ID: LCS 880-43054/2-A
Matrix: Solid
Analysis Batch: 43286

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	273.5		mg/Kg		109	90 - 110		

Lab Sample ID: LCSD 880-43054/3-A
Matrix: Solid
Analysis Batch: 43286

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	274.3		mg/Kg		110	90 - 110	0	20

Lab Sample ID: 880-23201-1 MS
Matrix: Solid
Analysis Batch: 43286

Client Sample ID: CS-1 (0-6")
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	140	F1	252	434.0	F1	mg/Kg		117	90 - 110		

Lab Sample ID: 880-23201-1 MSD
Matrix: Solid
Analysis Batch: 43286

Client Sample ID: CS-1 (0-6")
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	140	F1	252	425.1	F1	mg/Kg		113	90 - 110	2	20

QC Association Summary

Client: NT Global
Project/Site: Buffalo 12-1 Federal Com 2BS 5H

Job ID: 880-23201-1
SDG: Eddy Co, NM

GC VOA

Prep Batch: 43267

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23201-1	CS-1 (0-6")	Total/NA	Solid	5035	
880-23201-2	CS-1 (6"-1')	Total/NA	Solid	5035	
880-23201-3	CS-2 (0-6")	Total/NA	Solid	5035	
880-23201-4	CS-2 (6"-1')	Total/NA	Solid	5035	
880-23201-5	CS-3 (0-6")	Total/NA	Solid	5035	
880-23201-6	CS-3 (6"-1')	Total/NA	Solid	5035	
880-23201-7	CS-4 (0-6")	Total/NA	Solid	5035	
880-23201-8	CS-4 (6"-1')	Total/NA	Solid	5035	
MB 880-43267/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-43267/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-43267/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-23201-1 MS	CS-1 (0-6")	Total/NA	Solid	5035	
880-23201-1 MSD	CS-1 (0-6")	Total/NA	Solid	5035	

Analysis Batch: 43325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23201-1	CS-1 (0-6")	Total/NA	Solid	8021B	43267
880-23201-2	CS-1 (6"-1')	Total/NA	Solid	8021B	43267
880-23201-3	CS-2 (0-6")	Total/NA	Solid	8021B	43267
880-23201-4	CS-2 (6"-1')	Total/NA	Solid	8021B	43267
880-23201-5	CS-3 (0-6")	Total/NA	Solid	8021B	43267
880-23201-6	CS-3 (6"-1')	Total/NA	Solid	8021B	43267
880-23201-7	CS-4 (0-6")	Total/NA	Solid	8021B	43267
880-23201-8	CS-4 (6"-1')	Total/NA	Solid	8021B	43267
MB 880-43267/5-A	Method Blank	Total/NA	Solid	8021B	43267
LCS 880-43267/1-A	Lab Control Sample	Total/NA	Solid	8021B	43267
LCSD 880-43267/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	43267
880-23201-1 MS	CS-1 (0-6")	Total/NA	Solid	8021B	43267
880-23201-1 MSD	CS-1 (0-6")	Total/NA	Solid	8021B	43267

Analysis Batch: 43424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23201-1	CS-1 (0-6")	Total/NA	Solid	Total BTEX	
880-23201-2	CS-1 (6"-1')	Total/NA	Solid	Total BTEX	
880-23201-3	CS-2 (0-6")	Total/NA	Solid	Total BTEX	
880-23201-4	CS-2 (6"-1')	Total/NA	Solid	Total BTEX	
880-23201-5	CS-3 (0-6")	Total/NA	Solid	Total BTEX	
880-23201-6	CS-3 (6"-1')	Total/NA	Solid	Total BTEX	
880-23201-7	CS-4 (0-6")	Total/NA	Solid	Total BTEX	
880-23201-8	CS-4 (6"-1')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 43104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23201-1	CS-1 (0-6")	Total/NA	Solid	8015B NM	43112
880-23201-2	CS-1 (6"-1')	Total/NA	Solid	8015B NM	43112
880-23201-3	CS-2 (0-6")	Total/NA	Solid	8015B NM	43112
880-23201-4	CS-2 (6"-1')	Total/NA	Solid	8015B NM	43112
880-23201-5	CS-3 (0-6")	Total/NA	Solid	8015B NM	43112
880-23201-6	CS-3 (6"-1')	Total/NA	Solid	8015B NM	43112

QC Association Summary

Client: NT Global
Project/Site: Buffalo 12-1 Federal Com 2BS 5H

Job ID: 880-23201-1
SDG: Eddy Co, NM

GC Semi VOA (Continued)

Analysis Batch: 43104 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23201-7	CS-4 (0-6")	Total/NA	Solid	8015B NM	43112
880-23201-8	CS-4 (6"-1')	Total/NA	Solid	8015B NM	43112
MB 880-43112/1-A	Method Blank	Total/NA	Solid	8015B NM	43112
LCS 880-43112/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	43112
LCSD 880-43112/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	43112
890-3753-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	43112
890-3753-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	43112

Prep Batch: 43112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23201-1	CS-1 (0-6")	Total/NA	Solid	8015NM Prep	
880-23201-2	CS-1 (6"-1')	Total/NA	Solid	8015NM Prep	
880-23201-3	CS-2 (0-6")	Total/NA	Solid	8015NM Prep	
880-23201-4	CS-2 (6"-1')	Total/NA	Solid	8015NM Prep	
880-23201-5	CS-3 (0-6")	Total/NA	Solid	8015NM Prep	
880-23201-6	CS-3 (6"-1')	Total/NA	Solid	8015NM Prep	
880-23201-7	CS-4 (0-6")	Total/NA	Solid	8015NM Prep	
880-23201-8	CS-4 (6"-1')	Total/NA	Solid	8015NM Prep	
MB 880-43112/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-43112/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-43112/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3753-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3753-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 43232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23201-1	CS-1 (0-6")	Total/NA	Solid	8015 NM	
880-23201-2	CS-1 (6"-1')	Total/NA	Solid	8015 NM	
880-23201-3	CS-2 (0-6")	Total/NA	Solid	8015 NM	
880-23201-4	CS-2 (6"-1')	Total/NA	Solid	8015 NM	
880-23201-5	CS-3 (0-6")	Total/NA	Solid	8015 NM	
880-23201-6	CS-3 (6"-1')	Total/NA	Solid	8015 NM	
880-23201-7	CS-4 (0-6")	Total/NA	Solid	8015 NM	
880-23201-8	CS-4 (6"-1')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 43054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23201-1	CS-1 (0-6")	Soluble	Solid	DI Leach	
880-23201-2	CS-1 (6"-1')	Soluble	Solid	DI Leach	
880-23201-3	CS-2 (0-6")	Soluble	Solid	DI Leach	
880-23201-4	CS-2 (6"-1')	Soluble	Solid	DI Leach	
880-23201-5	CS-3 (0-6")	Soluble	Solid	DI Leach	
880-23201-6	CS-3 (6"-1')	Soluble	Solid	DI Leach	
880-23201-7	CS-4 (0-6")	Soluble	Solid	DI Leach	
880-23201-8	CS-4 (6"-1')	Soluble	Solid	DI Leach	
MB 880-43054/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-43054/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-43054/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-23201-1 MS	CS-1 (0-6")	Soluble	Solid	DI Leach	

QC Association Summary

Client: NT Global
Project/Site: Buffalo 12-1 Federal Com 2BS 5H

Job ID: 880-23201-1
SDG: Eddy Co, NM

HPLC/IC (Continued)

Leach Batch: 43054 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23201-1 MSD	CS-1 (0-6")	Soluble	Solid	DI Leach	

Analysis Batch: 43286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23201-1	CS-1 (0-6")	Soluble	Solid	300.0	43054
880-23201-2	CS-1 (6"-1')	Soluble	Solid	300.0	43054
880-23201-3	CS-2 (0-6")	Soluble	Solid	300.0	43054
880-23201-4	CS-2 (6"-1')	Soluble	Solid	300.0	43054
880-23201-5	CS-3 (0-6")	Soluble	Solid	300.0	43054
880-23201-6	CS-3 (6"-1')	Soluble	Solid	300.0	43054
880-23201-7	CS-4 (0-6")	Soluble	Solid	300.0	43054
880-23201-8	CS-4 (6"-1')	Soluble	Solid	300.0	43054
MB 880-43054/1-A	Method Blank	Soluble	Solid	300.0	43054
LCS 880-43054/2-A	Lab Control Sample	Soluble	Solid	300.0	43054
LCSD 880-43054/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	43054
880-23201-1 MS	CS-1 (0-6")	Soluble	Solid	300.0	43054
880-23201-1 MSD	CS-1 (0-6")	Soluble	Solid	300.0	43054

Lab Chronicle

Client: NT Global
Project/Site: Buffalo 12-1 Federal Com 2BS 5H

Job ID: 880-23201-1
SDG: Eddy Co, NM

Client Sample ID: CS-1 (0-6")

Lab Sample ID: 880-23201-1
Matrix: Solid
Date Collected: 12/29/22 00:00
Date Received: 12/30/22 13:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	43267	01/05/23 13:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43325	01/06/23 11:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43424	01/06/23 15:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			43232	01/05/23 10:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	43112	01/04/23 08:24	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43104	01/04/23 15:31	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	43054	01/03/23 09:35	KS	EET MID
Soluble	Analysis	300.0		1			43286	01/06/23 19:07	CH	EET MID

Client Sample ID: CS-1 (6"-1')

Lab Sample ID: 880-23201-2
Matrix: Solid
Date Collected: 12/29/22 00:00
Date Received: 12/30/22 13:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	43267	01/05/23 13:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43325	01/06/23 11:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43424	01/06/23 15:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			43232	01/05/23 10:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	43112	01/04/23 08:24	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43104	01/04/23 15:53	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	43054	01/03/23 09:35	KS	EET MID
Soluble	Analysis	300.0		1			43286	01/06/23 19:22	CH	EET MID

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

Lab Sample ID: 880-23201-3
Matrix: Solid
Date Collected: 12/29/22 00:00
Date Received: 12/30/22 13:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	43267	01/05/23 13:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43325	01/06/23 17:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43424	01/09/23 11:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			43232	01/05/23 10:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	43112	01/04/23 08:24	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43104	01/04/23 16:37	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	43054	01/03/23 09:35	KS	EET MID
Soluble	Analysis	300.0		1			43286	01/06/23 19:26	CH	EET MID

Client Sample ID: CS-2 (6"-1')

Lab Sample ID: 880-23201-4
Matrix: Solid
Date Collected: 12/29/22 00:00
Date Received: 12/30/22 13:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	43267	01/05/23 13:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43325	01/06/23 17:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43424	01/09/23 11:44	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: NT Global
Project/Site: Buffalo 12-1 Federal Com 2BS 5H

Job ID: 880-23201-1
SDG: Eddy Co, NM

Client Sample ID: CS-2 (6"-1')

Lab Sample ID: 880-23201-4
Matrix: Solid
Date Collected: 12/29/22 00:00
Date Received: 12/30/22 13:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			43232	01/05/23 10:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	43112	01/04/23 08:24	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43104	01/04/23 17:00	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	43054	01/03/23 09:35	KS	EET MID
Soluble	Analysis	300.0		1			43286	01/06/23 19:31	CH	EET MID

Client Sample ID: CS-3 (0-6")

Lab Sample ID: 880-23201-5
Matrix: Solid
Date Collected: 12/29/22 00:00
Date Received: 12/30/22 13:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	43267	01/05/23 13:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43325	01/06/23 17:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43424	01/09/23 11:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			43232	01/05/23 10:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	43112	01/04/23 08:24	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43104	01/04/23 17:22	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	43054	01/03/23 09:35	KS	EET MID
Soluble	Analysis	300.0		1			43286	01/06/23 19:36	CH	EET MID

Client Sample ID: CS-3 (6"-1')

Lab Sample ID: 880-23201-6
Matrix: Solid
Date Collected: 12/29/22 00:00
Date Received: 12/30/22 13:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	43267	01/05/23 13:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43325	01/06/23 18:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43424	01/09/23 11:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			43232	01/05/23 10:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	43112	01/04/23 08:24	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43104	01/04/23 17:45	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	43054	01/03/23 09:35	KS	EET MID
Soluble	Analysis	300.0		1			43286	01/06/23 19:51	CH	EET MID

Client Sample ID: CS-4 (0-6")

Lab Sample ID: 880-23201-7
Matrix: Solid
Date Collected: 12/29/22 00:00
Date Received: 12/30/22 13:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	43267	01/05/23 13:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43325	01/06/23 18:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43424	01/09/23 11:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			43232	01/05/23 10:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	43112	01/04/23 08:24	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43104	01/04/23 18:05	SM	EET MID

Lab Chronicle

Client: NT Global
Project/Site: Buffalo 12-1 Federal Com 2BS 5H

Job ID: 880-23201-1
SDG: Eddy Co, NM

Client Sample ID: CS-4 (0-6")

Lab Sample ID: 880-23201-7

Date Collected: 12/29/22 00:00
Matrix: Solid
Date Received: 12/30/22 13:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	43054	01/03/23 09:35	KS	EET MID
Soluble	Analysis	300.0		1			43286	01/06/23 19:56	CH	EET MID

Client Sample ID: CS-4 (6"-1')

Lab Sample ID: 880-23201-8

Date Collected: 12/29/22 00:00
Matrix: Solid
Date Received: 12/30/22 13:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	43267	01/05/23 13:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43325	01/06/23 18:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43424	01/09/23 11:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			43232	01/05/23 10:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	43112	01/04/23 08:24	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43104	01/04/23 18:25	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	43054	01/03/23 09:35	KS	EET MID
Soluble	Analysis	300.0		1			43286	01/06/23 20:01	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: NT Global
Project/Site: Buffalo 12-1 Federal Com 2BS 5H

Job ID: 880-23201-1
SDG: Eddy Co, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

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
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: NT Global
Project/Site: Buffalo 12-1 Federal Com 2BS 5H

Job ID: 880-23201-1
SDG: Eddy Co, NM

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: NT Global
Project/Site: Buffalo 12-1 Federal Com 2BS 5H

Job ID: 880-23201-1
SDG: Eddy Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-23201-1	CS-1 (0-6")	Solid	12/29/22 00:00	12/30/22 13:43
880-23201-2	CS-1 (6"-1')	Solid	12/29/22 00:00	12/30/22 13:43
880-23201-3	CS-2 (0-6")	Solid	12/29/22 00:00	12/30/22 13:43
880-23201-4	CS-2 (6"-1')	Solid	12/29/22 00:00	12/30/22 13:43
880-23201-5	CS-3 (0-6")	Solid	12/29/22 00:00	12/30/22 13:43
880-23201-6	CS-3 (6"-1')	Solid	12/29/22 00:00	12/30/22 13:43
880-23201-7	CS-4 (0-6")	Solid	12/29/22 00:00	12/30/22 13:43
880-23201-8	CS-4 (6"-1')	Solid	12/29/22 00:00	12/30/22 13:43

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Chain of Custody

NTG ENVIRONMENTAL

Work Order No: 23201

1/9/2023

Page 1 of 1

Project Manager	Becky Haskell	Bill to. (if different)	Chris Martin
Company Name.	NTG Environmental	Company Name:	Earthstone Operating LLC
Address.	701 Tradewinds BLVD	Address:	600 N Marienfeld Suite 1000
City, State ZIP	Midland, TX 79706	City, State ZIP	Midland Tx 79701
Phone:	432-766-1918	Email	Bhaskell@ntglobal com, Cmartin@earthstoneenergy.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ uperfund ☐

State of Project:

Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables. EDD ☐ ADaPT ☐ Other

Project Name	Buffalo 12-1 Federal Com 2BS 5H	Turn Around	
Project Number	226666	☑ Routine ☐ Rush	
Project Location	Eddy Co, NM	Due Date.	Standard
Sampler's Name:	AG	TAT starts the day received by the lab if received by 4 30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank.	Yes No	Wet Ice:	Yes No
Received Intact:	Yes No	Thermometer ID	IR6
Cooler Custody Seals.	Yes No N/A	Correction Factor	-0.3
Sample Custody Seals:	Yes No N/A	Temperature Reading	3.3
Total Containers:		Corrected Temperature:	3.0

Preservative Codes

None NO; DI Water H_2O; Cool Cool; MeOH Me; HCL. HC; HNO_3. HN; H_2S0_4 H_2; NaOH Na; H_3PO_4 HP; $NaHSO_4$ NABIS; $Na_2S_2O_3$ $NaSO_3$; Zn Acetate+NaOH Zn; NaOH+Ascorbic Acid SAPC

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300 0	HOLD	Sample Comments
CS-1 (0-6")	12/29/2022	-	X	-	G	1		X	X	X		
CS-1 (6"-1')	12/29/2022	-	X	-	G	1		X	X	X		402
CS-2 (0-6")	12/29/2022	-	X	-	G	1		X	X	X		
CS-2 (6"-1')	12/29/2022	-	X	-	G	1		X	X	X		
CS-3 (0-6")	12/29/2022	-	X	-	G	1		X	X	X		
CS-3 (6"-1')	12/29/2022	-	X	-	G	1		X	X	X		
CS-4 (0-6")	12/29/2022	-	X	-	G	1		X	X	X		
CS-4 (6"-1')	12/29/2022	-	X	-	G	1		X	X	X		

880-23201 Chain of Custody

Additoinal Comments:

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by. (Signature)	Date/Time
Nick Hart		12/30 1343	2		
3			4		
5			6		

Revised Date 05012020 Rev 2020.1

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Received by OCD: 3/18/2023 12:00:12 AM

Released to Imaging: 4/25/2023 11:41:33 AM

Login Sample Receipt Checklist

Client: NT Global

Job Number: 880-23201-1
SDG Number: Eddy Co, NM

Login Number: 23201
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

ANALYTICAL REPORT

PREPARED FOR

Attn: Becky Haskell
NT Global
701 Tradewinds Blvd
Midland, Texas 79706

Generated 2/13/2023 6:40:28 PM

JOB DESCRIPTION

Buffalo 12-1 Federal 2bs Com 5H
SDG NUMBER 226666

JOB NUMBER

890-4071-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 4/25/2023 11:41:35 AM

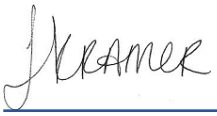
my EOL

Eurofins Carlsbad

Job Notes

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

Authorization



Generated
2/13/2023 6:40:28 PM

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

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2bs Com 5H

Laboratory Job ID: 890-4071-1
SDG: 226666

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Definitions/Glossary

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2bs Com 5H

Job ID: 890-4071-1
SDG: 226666

Qualifiers

GC VOA

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

GC Semi VOA

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

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: NT Global
Project/Site: Buffalo 12-1 Federal 2bs Com 5H

Job ID: 890-4071-1
SDG: 226666

Job ID: 890-4071-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-4071-1

Receipt
The samples were received on 2/8/2023 4:24 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 2.6°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: S-1(0-1) (890-4071-1), S-1(1-1.5) (890-4071-2), S-1(2-2.5) (890-4071-3), S-1(3-3.5) (890-4071-4), S-2(0-1) (890-4071-5), S-2(1-1.5) (890-4071-6), S-3(0-1) (890-4071-7), S-3(1-1.5) (890-4071-8), S-3(2-2.5) (890-4071-9), S-3(3-3.5) (890-4071-10), S-4(0-1) (890-4071-11), S-4(1-1.5) (890-4071-12), S-4(2-2.5) (890-4071-13), S-4(3-3.5) (890-4071-14), H-1 (890-4071-15), H-2 (890-4071-16), H-3 (890-4071-17) and H-4 (890-4071-18).

GC VOA
Method 8021B: Surrogate recovery for the following samples were outside control limits: S-1(0-1) (890-4071-1) and S-2(0-1) (890-4071-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: S-1(0-1) (890-4071-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-45930 and analytical batch 880-46064 was outside the control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: S-1(1-1.5) (890-4071-2), S-1(2-2.5) (890-4071-3), S-1(3-3.5) (890-4071-4), S-2(0-1) (890-4071-5), S-2(1-1.5) (890-4071-6), S-3(0-1) (890-4071-7), S-3(1-1.5) (890-4071-8), S-3(2-2.5) (890-4071-9), S-3(3-3.5) (890-4071-10), S-4(0-1) (890-4071-11), (890-4071-A-2-E MS) and (890-4071-A-2-F MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: S-1(0-1) (890-4071-1), S-4(1-1.5) (890-4071-12), S-4(2-2.5) (890-4071-13), S-4(3-3.5) (890-4071-14), H-1 (890-4071-15), H-2 (890-4071-16), H-3 (890-4071-17) and H-4 (890-4071-18). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Spike compounds were inadvertently omitted during the extraction process for the matrix spike/matrix spike duplicate (MS/MSD); therefore, matrix spike recoveries are unavailable for preparation batch 880-45930 and analytical batch 880-46064. The associated laboratory control sample (LCS) met acceptance criteria.

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

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-45994 and analytical batch 880-46020 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2bs Com 5H

Job ID: 890-4071-1
SDG: 226666

Client Sample ID: S-1(0-1)

Date Collected: 02/02/23 12:00
Date Received: 02/08/23 16:24

Lab Sample ID: 890-4071-1

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0402	U	0.0402		mg/Kg		02/10/23 10:30	02/11/23 04:30	20
Toluene	**3.09**		0.0402		mg/Kg		02/10/23 10:30	02/11/23 04:30	20
Ethylbenzene	**21.7**		0.398		mg/Kg		02/10/23 15:23	02/11/23 23:39	200
m-Xylene & p-Xylene	**15.8**		0.0803		mg/Kg		02/10/23 10:30	02/11/23 04:30	20
o-Xylene	**10.0**		0.398		mg/Kg		02/10/23 15:23	02/11/23 23:39	200
Xylenes, Total	**28.6**		0.795		mg/Kg		02/10/23 15:23	02/11/23 23:39	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*193*	*S1+*	*70 - 130*	*02/10/23 10:30*	*02/11/23 04:30*	*20*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*02/10/23 10:30*	*02/11/23 04:30*	*20*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**50.6**		0.398		mg/Kg			02/13/23 18:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/13/23 17:59	1

Method: SW846 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		02/09/23 17:38	02/13/23 06:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/09/23 17:38	02/13/23 06:15	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/09/23 17:38	02/13/23 06:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*2*	*S1-*	*70 - 130*	*02/09/23 17:38*	*02/13/23 06:15*	*1*
o-Terphenyl	*0.3*	*S1-*	*70 - 130*	*02/09/23 17:38*	*02/13/23 06:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5680**	**F1**	50.0		mg/Kg			02/10/23 21:54	10

Client Sample ID: S-1(1-1.5)

Date Collected: 02/02/23 12:00
Date Received: 02/08/23 16:24

Lab Sample ID: 890-4071-2

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0396	U	0.0396		mg/Kg		02/10/23 10:30	02/11/23 04:50	20
Toluene	**0.0886**		0.0396		mg/Kg		02/10/23 10:30	02/11/23 04:50	20
Ethylbenzene	**0.0938**		0.0396		mg/Kg		02/10/23 10:30	02/11/23 04:50	20
m-Xylene & p-Xylene	<0.0792	U	0.0792		mg/Kg		02/10/23 10:30	02/11/23 04:50	20
o-Xylene	**0.0461**		0.0396		mg/Kg		02/10/23 10:30	02/11/23 04:50	20
Xylenes, Total	<0.0792	U	0.0792		mg/Kg		02/10/23 10:30	02/11/23 04:50	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*02/10/23 10:30*	*02/11/23 04:50*	*20*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*02/10/23 10:30*	*02/11/23 04:50*	*20*

Client Sample Results

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2bs Com 5H

Job ID: 890-4071-1
SDG: 226666

Client Sample ID: S-1(1-1.5)

Lab Sample ID: 890-4071-2
Matrix: Solid
Date Collected: 02/02/23 12:00
Date Received: 02/08/23 16:24

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.229**		0.0792		mg/Kg			02/13/23 18:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/13/23 17:59	1

Method: SW846 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	50.0		mg/Kg		02/09/23 17:38	02/12/23 22:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U F1	50.0		mg/Kg		02/09/23 17:38	02/12/23 22:27	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/09/23 17:38	02/12/23 22:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*1*	*S1-*	*70 - 130*	*02/09/23 17:38*	*02/12/23 22:27*	*1*
o-Terphenyl	*0.7*	*S1-*	*70 - 130*	*02/09/23 17:38*	*02/12/23 22:27*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1470**		25.0		mg/Kg			02/10/23 22:12	5

Client Sample ID: S-1(2-2.5)

Lab Sample ID: 890-4071-3
Matrix: Solid
Date Collected: 02/02/23 12:00
Date Received: 02/08/23 16:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/10/23 10:30	02/11/23 04:09	1
Toluene	**0.00359**		0.00199		mg/Kg		02/10/23 10:30	02/11/23 04:09	1
Ethylbenzene	**0.0153**		0.00199		mg/Kg		02/10/23 10:30	02/11/23 04:09	1
m-Xylene & p-Xylene	**0.0107**		0.00398		mg/Kg		02/10/23 10:30	02/11/23 04:09	1
o-Xylene	**0.0119**		0.00199		mg/Kg		02/10/23 10:30	02/11/23 04:09	1
Xylenes, Total	**0.0226**		0.00398		mg/Kg		02/10/23 10:30	02/11/23 04:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*02/10/23 10:30*	*02/11/23 04:09*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*02/10/23 10:30*	*02/11/23 04:09*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0415**		0.00398		mg/Kg			02/13/23 18:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/13/23 17:59	1

Method: SW846 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		02/09/23 17:38	02/12/23 23:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/09/23 17:38	02/12/23 23:32	1

Client Sample Results

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2bs Com 5H

Job ID: 890-4071-1
SDG: 226666

Client Sample ID: S-1(2-2.5)

Lab Sample ID: 890-4071-3
Matrix: Solid
Date Collected: 02/02/23 12:00
Date Received: 02/08/23 16:24

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/09/23 17:38	02/12/23 23:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*2*	*S1-*	*70 - 130*	*02/09/23 17:38*	*02/12/23 23:32*	*1*
o-Terphenyl	*0.3*	*S1-*	*70 - 130*	*02/09/23 17:38*	*02/12/23 23:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**713**		4.97		mg/Kg			02/10/23 22:19	1

Client Sample ID: S-1(3-3.5)

Lab Sample ID: 890-4071-4
Matrix: Solid
Date Collected: 02/02/23 12:00
Date Received: 02/08/23 16:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/10/23 10:30	02/11/23 01:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/10/23 10:30	02/11/23 01:46	1
Ethylbenzene	**0.00240**		0.00200		mg/Kg		02/10/23 10:30	02/11/23 01:46	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/10/23 10:30	02/11/23 01:46	1
o-Xylene	**0.00217**		0.00200		mg/Kg		02/10/23 10:30	02/11/23 01:46	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/10/23 10:30	02/11/23 01:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*02/10/23 10:30*	*02/11/23 01:46*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*02/10/23 10:30*	*02/11/23 01:46*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00457**		0.00399		mg/Kg			02/13/23 18:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/13/23 17:59	1

Method: SW846 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		02/09/23 17:38	02/12/23 23:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/09/23 17:38	02/12/23 23:53	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/09/23 17:38	02/12/23 23:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*3*	*S1-*	*70 - 130*	*02/09/23 17:38*	*02/12/23 23:53*	*1*
o-Terphenyl	*0.4*	*S1-*	*70 - 130*	*02/09/23 17:38*	*02/12/23 23:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**687**		5.05		mg/Kg			02/10/23 22:25	1

Client Sample Results

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2bs Com 5H

Job ID: 890-4071-1
SDG: 226666

Client Sample ID: S-2(0-1)

Lab Sample ID: 890-4071-5
Matrix: Solid
Date Collected: 02/02/23 12:00
Date Received: 02/08/23 16:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/10/23 10:30	02/11/23 02:07	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/10/23 10:30	02/11/23 02:07	1
Ethylbenzene	**0.00416**		0.00201		mg/Kg		02/10/23 10:30	02/11/23 02:07	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/10/23 10:30	02/11/23 02:07	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/10/23 10:30	02/11/23 02:07	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/10/23 10:30	02/11/23 02:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*136*	*S1+*	*70 - 130*	*02/10/23 10:30*	*02/11/23 02:07*	*1*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*	*02/10/23 10:30*	*02/11/23 02:07*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00416**		0.00402		mg/Kg			02/13/23 18:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**318**		49.9		mg/Kg			02/13/23 17:59	1

Method: SW846 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		02/09/23 17:38	02/13/23 00:14	1
Diesel Range Organics (Over C10-C28)	**318**		49.9		mg/Kg		02/09/23 17:38	02/13/23 00:14	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/09/23 17:38	02/13/23 00:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*41*	*S1-*	*70 - 130*	*02/09/23 17:38*	*02/13/23 00:14*	*1*
o-Terphenyl	*45*	*S1-*	*70 - 130*	*02/09/23 17:38*	*02/13/23 00:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**395**		4.99		mg/Kg			02/10/23 22:31	1

Client Sample ID: S-2(1-1.5)

Lab Sample ID: 890-4071-6
Matrix: Solid
Date Collected: 02/02/23 12:00
Date Received: 02/08/23 16:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/10/23 10:30	02/11/23 02:27	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/10/23 10:30	02/11/23 02:27	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/10/23 10:30	02/11/23 02:27	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/10/23 10:30	02/11/23 02:27	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/10/23 10:30	02/11/23 02:27	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/10/23 10:30	02/11/23 02:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*02/10/23 10:30*	*02/11/23 02:27*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*02/10/23 10:30*	*02/11/23 02:27*	*1*

Client Sample Results

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2bs Com 5H

Job ID: 890-4071-1
SDG: 226666

Client Sample ID: S-2(1-1.5)

Date Collected: 02/02/23 12:00
Date Received: 02/08/23 16:24

Lab Sample ID: 890-4071-6
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/13/23 18:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/13/23 17:59	1

Method: SW846 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		02/09/23 17:38	02/13/23 00:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/09/23 17:38	02/13/23 00:36	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/09/23 17:38	02/13/23 00:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*47*	*S1-*	*70 - 130*	*02/09/23 17:38*	*02/13/23 00:36*	*1*
o-Terphenyl	*52*	*S1-*	*70 - 130*	*02/09/23 17:38*	*02/13/23 00:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**231**		5.01		mg/Kg			02/10/23 22:49	1

Client Sample ID: S-3(0-1)

Date Collected: 02/02/23 12:00
Date Received: 02/08/23 16:24

Lab Sample ID: 890-4071-7
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/10/23 10:30	02/11/23 02:48	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/10/23 10:30	02/11/23 02:48	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/10/23 10:30	02/11/23 02:48	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/10/23 10:30	02/11/23 02:48	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/10/23 10:30	02/11/23 02:48	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/10/23 10:30	02/11/23 02:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*02/10/23 10:30*	*02/11/23 02:48*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*02/10/23 10:30*	*02/11/23 02:48*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/13/23 18:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**522**		50.0		mg/Kg			02/13/23 17:59	1

Method: SW846 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		02/09/23 17:38	02/13/23 00:57	1
Diesel Range Organics (Over C10-C28)	**522**		50.0		mg/Kg		02/09/23 17:38	02/13/23 00:57	1

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Client Sample Results

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2bs Com 5H

Job ID: 890-4071-1
SDG: 226666

Client Sample ID: S-3(0-1)

Lab Sample ID: 890-4071-7
Matrix: Solid
Date Collected: 02/02/23 12:00
Date Received: 02/08/23 16:24

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/09/23 17:38	02/13/23 00:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*37*	*S1-*	*70 - 130*	*02/09/23 17:38*	*02/13/23 00:57*	*1*
o-Terphenyl	*38*	*S1-*	*70 - 130*	*02/09/23 17:38*	*02/13/23 00:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**208**		4.97		mg/Kg			02/10/23 22:55	1

Client Sample ID: S-3(1-1.5)

Lab Sample ID: 890-4071-8
Matrix: Solid
Date Collected: 02/02/23 12:00
Date Received: 02/08/23 16:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/10/23 10:30	02/11/23 03:08	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/10/23 10:30	02/11/23 03:08	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/10/23 10:30	02/11/23 03:08	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/10/23 10:30	02/11/23 03:08	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/10/23 10:30	02/11/23 03:08	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/10/23 10:30	02/11/23 03:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*02/10/23 10:30*	*02/11/23 03:08*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*02/10/23 10:30*	*02/11/23 03:08*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/13/23 18:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/13/23 17:59	1

Method: SW846 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		02/09/23 17:38	02/13/23 01:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/09/23 17:38	02/13/23 01:18	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/09/23 17:38	02/13/23 01:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*24*	*S1-*	*70 - 130*	*02/09/23 17:38*	*02/13/23 01:18*	*1*
o-Terphenyl	*24*	*S1-*	*70 - 130*	*02/09/23 17:38*	*02/13/23 01:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**169**		4.98		mg/Kg			02/10/23 23:02	1

Client Sample Results

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2bs Com 5H

Job ID: 890-4071-1
SDG: 226666

Client Sample ID: S-3(2-2.5)

Lab Sample ID: 890-4071-9
Matrix: Solid
Date Collected: 02/02/23 12:00
Date Received: 02/08/23 16:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/10/23 10:30	02/11/23 03:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/10/23 10:30	02/11/23 03:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/10/23 10:30	02/11/23 03:29	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/10/23 10:30	02/11/23 03:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/10/23 10:30	02/11/23 03:29	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/10/23 10:30	02/11/23 03:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*02/10/23 10:30*	*02/11/23 03:29*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*02/10/23 10:30*	*02/11/23 03:29*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/13/23 18:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/13/23 17:59	1

Method: SW846 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		02/09/23 17:38	02/13/23 01:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/09/23 17:38	02/13/23 01:39	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/09/23 17:38	02/13/23 01:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*0.8*	*S1-*	*70 - 130*	*02/09/23 17:38*	*02/13/23 01:39*	*1*
o-Terphenyl	*0.5*	*S1-*	*70 - 130*	*02/09/23 17:38*	*02/13/23 01:39*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**74.6**		4.95		mg/Kg			02/10/23 23:08	1

Client Sample ID: S-3(3-3.5)

Lab Sample ID: 890-4071-10
Matrix: Solid
Date Collected: 02/02/23 12:00
Date Received: 02/08/23 16:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/10/23 10:30	02/11/23 03:49	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/10/23 10:30	02/11/23 03:49	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/10/23 10:30	02/11/23 03:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/10/23 10:30	02/11/23 03:49	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/10/23 10:30	02/11/23 03:49	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/10/23 10:30	02/11/23 03:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*02/10/23 10:30*	*02/11/23 03:49*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*02/10/23 10:30*	*02/11/23 03:49*	*1*

Client Sample Results

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2bs Com 5H

Job ID: 890-4071-1
SDG: 226666

Client Sample ID: S-3(3-3.5)

Lab Sample ID: 890-4071-10
Matrix: Solid
Date Collected: 02/02/23 12:00
Date Received: 02/08/23 16:24

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/13/23 18:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/13/23 17:59	1

Method: SW846 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		02/09/23 17:38	02/13/23 02:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/09/23 17:38	02/13/23 02:01	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/09/23 17:38	02/13/23 02:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*1*	*S1-*	*70 - 130*	*02/09/23 17:38*	*02/13/23 02:01*	*1*
o-Terphenyl	*0.6*	*S1-*	*70 - 130*	*02/09/23 17:38*	*02/13/23 02:01*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**252**		5.02		mg/Kg			02/10/23 23:14	1

Client Sample ID: S-4(0-1)

Lab Sample ID: 890-4071-11
Matrix: Solid
Date Collected: 02/02/23 12:00
Date Received: 02/08/23 16:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/10/23 10:30	02/11/23 06:41	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/10/23 10:30	02/11/23 06:41	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/10/23 10:30	02/11/23 06:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/10/23 10:30	02/11/23 06:41	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/10/23 10:30	02/11/23 06:41	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/10/23 10:30	02/11/23 06:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*02/10/23 10:30*	*02/11/23 06:41*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*02/10/23 10:30*	*02/11/23 06:41*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/13/23 18:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/13/23 17:59	1

Method: SW846 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		02/09/23 17:38	02/13/23 02:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/09/23 17:38	02/13/23 02:22	1

Client Sample Results

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2bs Com 5H

Job ID: 890-4071-1
SDG: 226666

Client Sample ID: S-4(0-1)

Lab Sample ID: 890-4071-11
Matrix: Solid
Date Collected: 02/02/23 12:00
Date Received: 02/08/23 16:24

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/09/23 17:38	02/13/23 02:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*14*	*S1-*	*70 - 130*	*02/09/23 17:38*	*02/13/23 02:22*	*1*
o-Terphenyl	*8*	*S1-*	*70 - 130*	*02/09/23 17:38*	*02/13/23 02:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**148**		4.99		mg/Kg			02/10/23 23:20	1

Client Sample ID: S-4(1-1.5)

Lab Sample ID: 890-4071-12
Matrix: Solid
Date Collected: 02/02/23 12:00
Date Received: 02/08/23 16:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0402	U	0.0402		mg/Kg		02/10/23 10:30	02/11/23 09:04	20
Toluene	<0.0402	U	0.0402		mg/Kg		02/10/23 10:30	02/11/23 09:04	20
Ethylbenzene	<0.0402	U	0.0402		mg/Kg		02/10/23 10:30	02/11/23 09:04	20
m-Xylene & p-Xylene	<0.0805	U	0.0805		mg/Kg		02/10/23 10:30	02/11/23 09:04	20
o-Xylene	<0.0402	U	0.0402		mg/Kg		02/10/23 10:30	02/11/23 09:04	20
Xylenes, Total	<0.0805	U	0.0805		mg/Kg		02/10/23 10:30	02/11/23 09:04	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*02/10/23 10:30*	*02/11/23 09:04*	*20*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*02/10/23 10:30*	*02/11/23 09:04*	*20*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0805	U	0.0805		mg/Kg			02/13/23 18:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**191**		49.9		mg/Kg			02/13/23 17:59	1

Method: SW846 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		02/09/23 17:38	02/13/23 03:05	1
Diesel Range Organics (Over C10-C28)	**191**		49.9		mg/Kg		02/09/23 17:38	02/13/23 03:05	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/09/23 17:38	02/13/23 03:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*17*	*S1-*	*70 - 130*	*02/09/23 17:38*	*02/13/23 03:05*	*1*
o-Terphenyl	*15*	*S1-*	*70 - 130*	*02/09/23 17:38*	*02/13/23 03:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**154**		5.05		mg/Kg			02/10/23 23:39	1

Client Sample Results

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2bs Com 5H

Job ID: 890-4071-1
SDG: 226666

Client Sample ID: S-4(2-2.5)

Lab Sample ID: 890-4071-13
Matrix: Solid
Date Collected: 02/02/23 12:00
Date Received: 02/08/23 16:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0401	U	0.0401		mg/Kg		02/10/23 10:30	02/11/23 09:24	20
Toluene	<0.0401	U	0.0401		mg/Kg		02/10/23 10:30	02/11/23 09:24	20
Ethylbenzene	<0.0401	U	0.0401		mg/Kg		02/10/23 10:30	02/11/23 09:24	20
m-Xylene & p-Xylene	<0.0802	U	0.0802		mg/Kg		02/10/23 10:30	02/11/23 09:24	20
o-Xylene	<0.0401	U	0.0401		mg/Kg		02/10/23 10:30	02/11/23 09:24	20
Xylenes, Total	<0.0802	U	0.0802		mg/Kg		02/10/23 10:30	02/11/23 09:24	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*02/10/23 10:30*	*02/11/23 09:24*	*20*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*02/10/23 10:30*	*02/11/23 09:24*	*20*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0802	U	0.0802		mg/Kg			02/13/23 18:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/13/23 17:59	1

Method: SW846 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		02/09/23 17:38	02/13/23 03:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/09/23 17:38	02/13/23 03:26	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/09/23 17:38	02/13/23 03:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*1*	*S1-*	*70 - 130*	*02/09/23 17:38*	*02/13/23 03:26*	*1*
o-Terphenyl	*0.7*	*S1-*	*70 - 130*	*02/09/23 17:38*	*02/13/23 03:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.54**		4.96		mg/Kg			02/10/23 23:45	1

Client Sample ID: S-4(3-3.5)

Lab Sample ID: 890-4071-14
Matrix: Solid
Date Collected: 02/02/23 12:00
Date Received: 02/08/23 16:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0398	U	0.0398		mg/Kg		02/10/23 10:30	02/11/23 09:44	20
Toluene	<0.0398	U	0.0398		mg/Kg		02/10/23 10:30	02/11/23 09:44	20
Ethylbenzene	<0.0398	U	0.0398		mg/Kg		02/10/23 10:30	02/11/23 09:44	20
m-Xylene & p-Xylene	<0.0797	U	0.0797		mg/Kg		02/10/23 10:30	02/11/23 09:44	20
o-Xylene	<0.0398	U	0.0398		mg/Kg		02/10/23 10:30	02/11/23 09:44	20
Xylenes, Total	<0.0797	U	0.0797		mg/Kg		02/10/23 10:30	02/11/23 09:44	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*02/10/23 10:30*	*02/11/23 09:44*	*20*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*02/10/23 10:30*	*02/11/23 09:44*	*20*

Client Sample Results

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2bs Com 5H

Job ID: 890-4071-1
SDG: 226666

Client Sample ID: S-4(3-3.5)

Lab Sample ID: 890-4071-14
Matrix: Solid
Date Collected: 02/02/23 12:00
Date Received: 02/08/23 16:24

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0797	U	0.0797		mg/Kg			02/13/23 18:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/13/23 17:59	1

Method: SW846 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		02/09/23 17:38	02/13/23 03:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/09/23 17:38	02/13/23 03:47	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/09/23 17:38	02/13/23 03:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*3*	*S1-*	*70 - 130*	*02/09/23 17:38*	*02/13/23 03:47*	*1*
o-Terphenyl	*0.6*	*S1-*	*70 - 130*	*02/09/23 17:38*	*02/13/23 03:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**15.5**		5.02		mg/Kg			02/11/23 00:04	1

Client Sample ID: H-1

Lab Sample ID: 890-4071-15
Matrix: Solid
Date Collected: 02/02/23 12:00
Date Received: 02/08/23 16:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		02/10/23 10:30	02/11/23 07:01	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/10/23 10:30	02/11/23 07:01	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/10/23 10:30	02/11/23 07:01	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		02/10/23 10:30	02/11/23 07:01	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/10/23 10:30	02/11/23 07:01	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		02/10/23 10:30	02/11/23 07:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*02/10/23 10:30*	*02/11/23 07:01*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*02/10/23 10:30*	*02/11/23 07:01*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			02/13/23 18:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/13/23 17:59	1

Method: SW846 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		02/09/23 17:38	02/13/23 04:08	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/09/23 17:38	02/13/23 04:08	1

Eurofins Carlsbad

Client Sample Results

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2bs Com 5H

Job ID: 890-4071-1
SDG: 226666

Client Sample ID: H-1

Lab Sample ID: 890-4071-15
Matrix: Solid
Date Collected: 02/02/23 12:00
Date Received: 02/08/23 16:24

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/09/23 17:38	02/13/23 04:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*1*	*S1-*	*70 - 130*	*02/09/23 17:38*	*02/13/23 04:08*	*1*
o-Terphenyl	*0.6*	*S1-*	*70 - 130*	*02/09/23 17:38*	*02/13/23 04:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**466**		4.95		mg/Kg			02/11/23 00:10	1

Client Sample ID: H-2

Lab Sample ID: 890-4071-16
Matrix: Solid
Date Collected: 02/02/23 12:00
Date Received: 02/08/23 16:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/10/23 10:30	02/11/23 07:21	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/10/23 10:30	02/11/23 07:21	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/10/23 10:30	02/11/23 07:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/10/23 10:30	02/11/23 07:21	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/10/23 10:30	02/11/23 07:21	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/10/23 10:30	02/11/23 07:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*02/10/23 10:30*	*02/11/23 07:21*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*02/10/23 10:30*	*02/11/23 07:21*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/13/23 18:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/13/23 17:59	1

Method: SW846 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		02/09/23 17:38	02/13/23 04:29	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/09/23 17:38	02/13/23 04:29	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/09/23 17:38	02/13/23 04:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*22*	*S1-*	*70 - 130*	*02/09/23 17:38*	*02/13/23 04:29*	*1*
o-Terphenyl	*17*	*S1-*	*70 - 130*	*02/09/23 17:38*	*02/13/23 04:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**127**		5.00		mg/Kg			02/11/23 00:16	1

Client Sample Results

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2bs Com 5H

Job ID: 890-4071-1
SDG: 226666

Client Sample ID: H-3

Lab Sample ID: 890-4071-17
Matrix: Solid
Date Collected: 02/02/23 12:00
Date Received: 02/08/23 16:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/10/23 10:30	02/11/23 07:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/10/23 10:30	02/11/23 07:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/10/23 10:30	02/11/23 07:42	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/10/23 10:30	02/11/23 07:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/10/23 10:30	02/11/23 07:42	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/10/23 10:30	02/11/23 07:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*02/10/23 10:30*	*02/11/23 07:42*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*02/10/23 10:30*	*02/11/23 07:42*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/13/23 18:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/13/23 17:59	1

Method: SW846 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		02/09/23 17:38	02/13/23 04:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/09/23 17:38	02/13/23 04:50	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/09/23 17:38	02/13/23 04:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*16*	*S1-*	*70 - 130*	*02/09/23 17:38*	*02/13/23 04:50*	*1*
o-Terphenyl	*10*	*S1-*	*70 - 130*	*02/09/23 17:38*	*02/13/23 04:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**120**		4.95		mg/Kg			02/11/23 00:22	1

Client Sample ID: H-4

Lab Sample ID: 890-4071-18
Matrix: Solid
Date Collected: 02/02/23 12:00
Date Received: 02/08/23 16:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/10/23 10:30	02/11/23 08:02	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/10/23 10:30	02/11/23 08:02	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/10/23 10:30	02/11/23 08:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/10/23 10:30	02/11/23 08:02	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/10/23 10:30	02/11/23 08:02	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/10/23 10:30	02/11/23 08:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*02/10/23 10:30*	*02/11/23 08:02*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*02/10/23 10:30*	*02/11/23 08:02*	*1*

Client Sample Results

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2bs Com 5H

Job ID: 890-4071-1
SDG: 226666

Client Sample ID: H-4

Date Collected: 02/02/23 12:00
Date Received: 02/08/23 16:24

Lab Sample ID: 890-4071-18

Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/13/23 18:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/13/23 17:59	1

Method: SW846 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		02/09/23 17:38	02/13/23 05:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/09/23 17:38	02/13/23 05:12	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/09/23 17:38	02/13/23 05:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*39*	*S1-*	*70 - 130*	*02/09/23 17:38*	*02/13/23 05:12*	*1*
o-Terphenyl	*39*	*S1-*	*70 - 130*	*02/09/23 17:38*	*02/13/23 05:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**213**		4.97		mg/Kg			02/11/23 00:28	1

Surrogate Summary

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2bs Com 5H

Job ID: 890-4071-1
SDG: 226666

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)
890-4068-A-1-D MS	Matrix Spike	107	97
890-4068-A-1-E MSD	Matrix Spike Duplicate	122	103
890-4071-1	S-1(0-1)	193 S1+	78
890-4071-2	S-1(1-1.5)	108	93
890-4071-3	S-1(2-2.5)	107	106
890-4071-4	S-1(3-3.5)	108	107
890-4071-4 MS	S-1(3-3.5)	114	107
890-4071-4 MSD	S-1(3-3.5)	112	106
890-4071-5	S-2(0-1)	136 S1+	115
890-4071-6	S-2(1-1.5)	126	109
890-4071-7	S-3(0-1)	126	102
890-4071-8	S-3(1-1.5)	122	110
890-4071-9	S-3(2-2.5)	120	111
890-4071-10	S-3(3-3.5)	114	111
890-4071-11	S-4(0-1)	121	94
890-4071-12	S-4(1-1.5)	108	86
890-4071-13	S-4(2-2.5)	99	90
890-4071-14	S-4(3-3.5)	101	92
890-4071-15	H-1	114	107
890-4071-16	H-2	125	111
890-4071-17	H-3	119	108
890-4071-18	H-4	119	106
LCS 880-45967/1-A	Lab Control Sample	113	114
LCS 880-46022/1-A	Lab Control Sample	123	106
LCSD 880-45967/2-A	Lab Control Sample Dup	109	109
LCSD 880-46022/2-A	Lab Control Sample Dup	110	100
MB 880-45890/5-A	Method Blank	106	105
MB 880-45967/5-A	Method Blank	112	101
MB 880-46022/5-A	Method Blank	79	92

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)
890-4071-1	S-1(0-1)	2 S1-	0.3 S1-
890-4071-2	S-1(1-1.5)	1 S1-	0.7 S1-
890-4071-2 MS	S-1(1-1.5)	1 S1-	0.3 S1-
890-4071-2 MSD	S-1(1-1.5)	2 S1-	0.3 S1-
890-4071-3	S-1(2-2.5)	2 S1-	0.3 S1-
890-4071-4	S-1(3-3.5)	3 S1-	0.4 S1-
890-4071-5	S-2(0-1)	41 S1-	45 S1-
890-4071-6	S-2(1-1.5)	47 S1-	52 S1-
890-4071-7	S-3(0-1)	37 S1-	38 S1-
890-4071-8	S-3(1-1.5)	24 S1-	24 S1-

Surrogate Summary

Client: NT Global
Job ID: 890-4071-1
Project/Site: Buffalo 12-1 Federal 2bs Com 5H
SDG: 226666

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

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

		Percent Surrogate Recovery (Acceptance Limits)									
		1CO1	OTPH1								
Lab Sample ID	Client Sample ID	(70-130)	(70-130)								
890-4071-9	S-3(2-2.5)	0.8 S1-	0.5 S1-								
890-4071-10	S-3(3-3.5)	1 S1-	0.6 S1-								
890-4071-11	S-4(0-1)	14 S1-	8 S1-								
890-4071-12	S-4(1-1.5)	17 S1-	15 S1-								
890-4071-13	S-4(2-2.5)	1 S1-	0.7 S1-								
890-4071-14	S-4(3-3.5)	3 S1-	0.6 S1-								
890-4071-15	H-1	1 S1-	0.6 S1-								
890-4071-16	H-2	22 S1-	17 S1-								
890-4071-17	H-3	16 S1-	10 S1-								
890-4071-18	H-4	39 S1-	39 S1-								
LCS 880-45930/2-A	Lab Control Sample	92	98								
LCSD 880-45930/3-A	Lab Control Sample Dup	93	101								
MB 880-45930/1-A	Method Blank	63 S1-	67 S1-								

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2bs Com 5H

Job ID: 890-4071-1
SDG: 226666

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-45890/5-A
Matrix: Solid
Analysis Batch: 45955

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 45890

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/09/23 10:23	02/10/23 13:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/09/23 10:23	02/10/23 13:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/09/23 10:23	02/10/23 13:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/09/23 10:23	02/10/23 13:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/09/23 10:23	02/10/23 13:42	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/09/23 10:23	02/10/23 13:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*02/09/23 10:23*	*02/10/23 13:42*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*02/09/23 10:23*	*02/10/23 13:42*	*1*

Lab Sample ID: MB 880-45967/5-A
Matrix: Solid
Analysis Batch: 45955

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 45967

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/10/23 10:30	02/11/23 01:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/10/23 10:30	02/11/23 01:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/10/23 10:30	02/11/23 01:18	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/10/23 10:30	02/11/23 01:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/10/23 10:30	02/11/23 01:18	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/10/23 10:30	02/11/23 01:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*02/10/23 10:30*	*02/11/23 01:18*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*02/10/23 10:30*	*02/11/23 01:18*	*1*

Lab Sample ID: LCS 880-45967/1-A
Matrix: Solid
Analysis Batch: 45955

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 45967

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08189		mg/Kg		82	70 - 130
Toluene	0.100	0.07537		mg/Kg		75	70 - 130
Ethylbenzene	0.100	0.07378		mg/Kg		74	70 - 130
m-Xylene & p-Xylene	0.200	0.1574		mg/Kg		79	70 - 130
o-Xylene	0.100	0.07879		mg/Kg		79	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*

Lab Sample ID: LCSD 880-45967/2-A
Matrix: Solid
Analysis Batch: 45955

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 45967

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08046		mg/Kg		80	70 - 130	2	35

QC Sample Results

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2bs Com 5H

Job ID: 890-4071-1
SDG: 226666

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

Lab Sample ID: LCSD 880-45967/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 45955 — **Prep Batch: 45967**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.07839		mg/Kg		78	70 - 130	4	35
Ethylbenzene			0.100	0.07768		mg/Kg		78	70 - 130	5	35
m-Xylene & p-Xylene			0.200	0.1671		mg/Kg		84	70 - 130	6	35
o-Xylene			0.100	0.08348		mg/Kg		83	70 - 130	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*

Lab Sample ID: 890-4071-4 MS — **Client Sample ID: S-1(3-3.5)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 45955 — **Prep Batch: 45967**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.09962		mg/Kg		99	70 - 130
Toluene	<0.00200	U	0.100	0.09459		mg/Kg		93	70 - 130
Ethylbenzene	0.00240		0.100	0.08686		mg/Kg		84	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1733		mg/Kg		86	70 - 130
o-Xylene	0.00217		0.100	0.08711		mg/Kg		85	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: 890-4071-4 MSD — **Client Sample ID: S-1(3-3.5)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 45955 — **Prep Batch: 45967**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0990	0.09486		mg/Kg		96	70 - 130	5	35
Toluene	<0.00200	U	0.0990	0.1079		mg/Kg		108	70 - 130	13	35
Ethylbenzene	0.00240		0.0990	0.08352		mg/Kg		82	70 - 130	4	35
m-Xylene & p-Xylene	<0.00399	U	0.198	0.1692		mg/Kg		85	70 - 130	2	35
o-Xylene	0.00217		0.0990	0.08258		mg/Kg		81	70 - 130	5	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: MB 880-46022/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 46060 — **Prep Batch: 46022**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/10/23 15:23	02/11/23 15:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/10/23 15:23	02/11/23 15:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/10/23 15:23	02/11/23 15:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/10/23 15:23	02/11/23 15:47	1

QC Sample Results

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2bs Com 5H

Job ID: 890-4071-1
SDG: 226666

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

Lab Sample ID: MB 880-46022/5-A
Matrix: Solid
Analysis Batch: 46060

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 46022

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/10/23 15:23	02/11/23 15:47	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/10/23 15:23	02/11/23 15:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*	*02/10/23 15:23*	*02/11/23 15:47*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*02/10/23 15:23*	*02/11/23 15:47*	*1*

Lab Sample ID: LCS 880-46022/1-A
Matrix: Solid
Analysis Batch: 46060

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 46022

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09910		mg/Kg		99	70 - 130		
Toluene			0.100	0.09313		mg/Kg		93	70 - 130		
Ethylbenzene			0.100	0.1011		mg/Kg		101	70 - 130		
m-Xylene & p-Xylene			0.200	0.2210		mg/Kg		110	70 - 130		
o-Xylene			0.100	0.1107		mg/Kg		111	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: LCSD 880-46022/2-A
Matrix: Solid
Analysis Batch: 46060

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 46022

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1111		mg/Kg		111	70 - 130	11	35
Toluene			0.100	0.1077		mg/Kg		108	70 - 130	14	35
Ethylbenzene			0.100	0.1076		mg/Kg		108	70 - 130	6	35
m-Xylene & p-Xylene			0.200	0.2306		mg/Kg		115	70 - 130	4	35
o-Xylene			0.100	0.1143		mg/Kg		114	70 - 130	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 890-4068-A-1-D MS
Matrix: Solid
Analysis Batch: 46060

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 46022

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00202	U F2 F1	0.101	0.1077		mg/Kg		107	70 - 130		
Toluene	<0.00202	U F2 F1	0.101	0.1040		mg/Kg		103	70 - 130		
Ethylbenzene	<0.00202	U F2 F1	0.101	0.1030		mg/Kg		102	70 - 130		
m-Xylene & p-Xylene	<0.00403	U F2 F1	0.202	0.2182		mg/Kg		108	70 - 130		
o-Xylene	<0.00202	U F2 F1	0.101	0.1077		mg/Kg		107	70 - 130		

QC Sample Results

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2bs Com 5H

Job ID: 890-4071-1
SDG: 226666

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

Lab Sample ID: 890-4068-A-1-D MS
Matrix: Solid
Analysis Batch: 46060

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 46022

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 890-4068-A-1-E MSD
Matrix: Solid
Analysis Batch: 46060

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 46022

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U F2 F1	0.0996	0.1041		mg/Kg		105	70 - 130	3	35
Toluene	<0.00202	U F2 F1	0.0996	0.1037		mg/Kg		104	70 - 130	0	35
Ethylbenzene	<0.00202	U F2 F1	0.0996	0.1126		mg/Kg		113	70 - 130	9	35
m-Xylene & p-Xylene	<0.00403	U F2 F1	0.199	0.2436		mg/Kg		122	70 - 130	11	35
o-Xylene	<0.00202	U F2 F1	0.0996	0.1207		mg/Kg		121	70 - 130	11	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	122		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

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

Lab Sample ID: MB 880-45930/1-A
Matrix: Solid
Analysis Batch: 46064

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 45930

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		02/09/23 17:38	02/12/23 21:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/09/23 17:38	02/12/23 21:21	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/09/23 17:38	02/12/23 21:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	63	S1-	70 - 130	02/09/23 17:38	02/12/23 21:21	1
o-Terphenyl	67	S1-	70 - 130	02/09/23 17:38	02/12/23 21:21	1

Lab Sample ID: LCS 880-45930/2-A
Matrix: Solid
Analysis Batch: 46064

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 45930

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	966.6		mg/Kg		97	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1069		mg/Kg		107	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	92		70 - 130
o-Terphenyl	98		70 - 130

QC Sample Results

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2bs Com 5H

Job ID: 890-4071-1
SDG: 226666

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

Lab Sample ID: LCSD 880-45930/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 46064 — **Prep Batch: 45930**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1074		mg/Kg		107	70 - 130	11	20
Diesel Range Organics (Over C10-C28)			1000	1073		mg/Kg		107	70 - 130	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*93*		*70 - 130*
o-Terphenyl	*101*		*70 - 130*

Lab Sample ID: 890-4071-2 MS — **Client Sample ID: S-1(1-1.5)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 46064 — **Prep Batch: 45930**

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	998	<49.9	U F1	mg/Kg		0.1	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U F1	998	<49.9	U F1	mg/Kg		0.2	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*1*	*S1-*	*70 - 130*
o-Terphenyl	*0.3*	*S1-*	*70 - 130*

Lab Sample ID: 890-4071-2 MSD — **Client Sample ID: S-1(1-1.5)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 46064 — **Prep Batch: 45930**

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	999	<50.0	U F1	mg/Kg		0.4	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	999	<50.0	U F1	mg/Kg		0.5	70 - 130	9	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*2*	*S1-*	*70 - 130*
o-Terphenyl	*0.3*	*S1-*	*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-45994/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 46020

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			02/10/23 21:35	1

QC Sample Results

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2bs Com 5H

Job ID: 890-4071-1
SDG: 226666

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-45994/2-A
Matrix: Solid
Analysis Batch: 46020

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	240.9		mg/Kg		96	90 - 110		

Lab Sample ID: LCSD 880-45994/3-A
Matrix: Solid
Analysis Batch: 46020

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	241.1		mg/Kg		96	90 - 110	0	20

Lab Sample ID: 890-4071-1 MS
Matrix: Solid
Analysis Batch: 46020

Client Sample ID: S-1(0-1)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	5680	F1	2500	8946	F1	mg/Kg		131	90 - 110		

Lab Sample ID: 890-4071-1 MSD
Matrix: Solid
Analysis Batch: 46020

Client Sample ID: S-1(0-1)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	5680	F1	2500	8975	F1	mg/Kg		132	90 - 110	0	20

Lab Sample ID: 890-4071-11 MS
Matrix: Solid
Analysis Batch: 46020

Client Sample ID: S-4(0-1)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	148		250	400.0		mg/Kg		101	90 - 110		

Lab Sample ID: 890-4071-11 MSD
Matrix: Solid
Analysis Batch: 46020

Client Sample ID: S-4(0-1)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	148		250	400.1		mg/Kg		101	90 - 110	0	20

QC Association Summary

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2bs Com 5H

Job ID: 890-4071-1
SDG: 226666

GC VOA

Prep Batch: 45890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-45890/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 45955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4071-1	S-1(0-1)	Total/NA	Solid	8021B	45967
890-4071-2	S-1(1-1.5)	Total/NA	Solid	8021B	45967
890-4071-3	S-1(2-2.5)	Total/NA	Solid	8021B	45967
890-4071-4	S-1(3-3.5)	Total/NA	Solid	8021B	45967
890-4071-5	S-2(0-1)	Total/NA	Solid	8021B	45967
890-4071-6	S-2(1-1.5)	Total/NA	Solid	8021B	45967
890-4071-7	S-3(0-1)	Total/NA	Solid	8021B	45967
890-4071-8	S-3(1-1.5)	Total/NA	Solid	8021B	45967
890-4071-9	S-3(2-2.5)	Total/NA	Solid	8021B	45967
890-4071-10	S-3(3-3.5)	Total/NA	Solid	8021B	45967
890-4071-11	S-4(0-1)	Total/NA	Solid	8021B	45967
890-4071-12	S-4(1-1.5)	Total/NA	Solid	8021B	45967
890-4071-13	S-4(2-2.5)	Total/NA	Solid	8021B	45967
890-4071-14	S-4(3-3.5)	Total/NA	Solid	8021B	45967
890-4071-15	H-1	Total/NA	Solid	8021B	45967
890-4071-16	H-2	Total/NA	Solid	8021B	45967
890-4071-17	H-3	Total/NA	Solid	8021B	45967
890-4071-18	H-4	Total/NA	Solid	8021B	45967
MB 880-45890/5-A	Method Blank	Total/NA	Solid	8021B	45890
MB 880-45967/5-A	Method Blank	Total/NA	Solid	8021B	45967
LCS 880-45967/1-A	Lab Control Sample	Total/NA	Solid	8021B	45967
LCSD 880-45967/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	45967
890-4071-4 MS	S-1(3-3.5)	Total/NA	Solid	8021B	45967
890-4071-4 MSD	S-1(3-3.5)	Total/NA	Solid	8021B	45967

Prep Batch: 45967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4071-1	S-1(0-1)	Total/NA	Solid	5035	
890-4071-2	S-1(1-1.5)	Total/NA	Solid	5035	
890-4071-3	S-1(2-2.5)	Total/NA	Solid	5035	
890-4071-4	S-1(3-3.5)	Total/NA	Solid	5035	
890-4071-5	S-2(0-1)	Total/NA	Solid	5035	
890-4071-6	S-2(1-1.5)	Total/NA	Solid	5035	
890-4071-7	S-3(0-1)	Total/NA	Solid	5035	
890-4071-8	S-3(1-1.5)	Total/NA	Solid	5035	
890-4071-9	S-3(2-2.5)	Total/NA	Solid	5035	
890-4071-10	S-3(3-3.5)	Total/NA	Solid	5035	
890-4071-11	S-4(0-1)	Total/NA	Solid	5035	
890-4071-12	S-4(1-1.5)	Total/NA	Solid	5035	
890-4071-13	S-4(2-2.5)	Total/NA	Solid	5035	
890-4071-14	S-4(3-3.5)	Total/NA	Solid	5035	
890-4071-15	H-1	Total/NA	Solid	5035	
890-4071-16	H-2	Total/NA	Solid	5035	
890-4071-17	H-3	Total/NA	Solid	5035	
890-4071-18	H-4	Total/NA	Solid	5035	
MB 880-45967/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-45967/1-A	Lab Control Sample	Total/NA	Solid	5035	

QC Association Summary

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2bs Com 5H

Job ID: 890-4071-1
SDG: 226666

GC VOA (Continued)

Prep Batch: 45967 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-45967/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4071-4 MS	S-1(3-3.5)	Total/NA	Solid	5035	
890-4071-4 MSD	S-1(3-3.5)	Total/NA	Solid	5035	

Prep Batch: 46022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4071-1	S-1(0-1)	Total/NA	Solid	5035	
MB 880-46022/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-46022/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-46022/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4068-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
890-4068-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 46060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4071-1	S-1(0-1)	Total/NA	Solid	8021B	46022
MB 880-46022/5-A	Method Blank	Total/NA	Solid	8021B	46022
LCS 880-46022/1-A	Lab Control Sample	Total/NA	Solid	8021B	46022
LCSD 880-46022/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	46022
890-4068-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	46022
890-4068-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	46022

Analysis Batch: 46224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4071-1	S-1(0-1)	Total/NA	Solid	Total BTEX	
890-4071-2	S-1(1-1.5)	Total/NA	Solid	Total BTEX	
890-4071-3	S-1(2-2.5)	Total/NA	Solid	Total BTEX	
890-4071-4	S-1(3-3.5)	Total/NA	Solid	Total BTEX	
890-4071-5	S-2(0-1)	Total/NA	Solid	Total BTEX	
890-4071-6	S-2(1-1.5)	Total/NA	Solid	Total BTEX	
890-4071-7	S-3(0-1)	Total/NA	Solid	Total BTEX	
890-4071-8	S-3(1-1.5)	Total/NA	Solid	Total BTEX	
890-4071-9	S-3(2-2.5)	Total/NA	Solid	Total BTEX	
890-4071-10	S-3(3-3.5)	Total/NA	Solid	Total BTEX	
890-4071-11	S-4(0-1)	Total/NA	Solid	Total BTEX	
890-4071-12	S-4(1-1.5)	Total/NA	Solid	Total BTEX	
890-4071-13	S-4(2-2.5)	Total/NA	Solid	Total BTEX	
890-4071-14	S-4(3-3.5)	Total/NA	Solid	Total BTEX	
890-4071-15	H-1	Total/NA	Solid	Total BTEX	
890-4071-16	H-2	Total/NA	Solid	Total BTEX	
890-4071-17	H-3	Total/NA	Solid	Total BTEX	
890-4071-18	H-4	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 45930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4071-1	S-1(0-1)	Total/NA	Solid	8015NM Prep	
890-4071-2	S-1(1-1.5)	Total/NA	Solid	8015NM Prep	
890-4071-3	S-1(2-2.5)	Total/NA	Solid	8015NM Prep	
890-4071-4	S-1(3-3.5)	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2bs Com 5H

Job ID: 890-4071-1
SDG: 226666

GC Semi VOA (Continued)

Prep Batch: 45930 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4071-5	S-2(0-1)	Total/NA	Solid	8015NM Prep	
890-4071-6	S-2(1-1.5)	Total/NA	Solid	8015NM Prep	
890-4071-7	S-3(0-1)	Total/NA	Solid	8015NM Prep	
890-4071-8	S-3(1-1.5)	Total/NA	Solid	8015NM Prep	
890-4071-9	S-3(2-2.5)	Total/NA	Solid	8015NM Prep	
890-4071-10	S-3(3-3.5)	Total/NA	Solid	8015NM Prep	
890-4071-11	S-4(0-1)	Total/NA	Solid	8015NM Prep	
890-4071-12	S-4(1-1.5)	Total/NA	Solid	8015NM Prep	
890-4071-13	S-4(2-2.5)	Total/NA	Solid	8015NM Prep	
890-4071-14	S-4(3-3.5)	Total/NA	Solid	8015NM Prep	
890-4071-15	H-1	Total/NA	Solid	8015NM Prep	
890-4071-16	H-2	Total/NA	Solid	8015NM Prep	
890-4071-17	H-3	Total/NA	Solid	8015NM Prep	
890-4071-18	H-4	Total/NA	Solid	8015NM Prep	
MB 880-45930/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-45930/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-45930/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4071-2 MS	S-1(1-1.5)	Total/NA	Solid	8015NM Prep	
890-4071-2 MSD	S-1(1-1.5)	Total/NA	Solid	8015NM Prep	

Analysis Batch: 46064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4071-1	S-1(0-1)	Total/NA	Solid	8015B NM	45930
890-4071-2	S-1(1-1.5)	Total/NA	Solid	8015B NM	45930
890-4071-3	S-1(2-2.5)	Total/NA	Solid	8015B NM	45930
890-4071-4	S-1(3-3.5)	Total/NA	Solid	8015B NM	45930
890-4071-5	S-2(0-1)	Total/NA	Solid	8015B NM	45930
890-4071-6	S-2(1-1.5)	Total/NA	Solid	8015B NM	45930
890-4071-7	S-3(0-1)	Total/NA	Solid	8015B NM	45930
890-4071-8	S-3(1-1.5)	Total/NA	Solid	8015B NM	45930
890-4071-9	S-3(2-2.5)	Total/NA	Solid	8015B NM	45930
890-4071-10	S-3(3-3.5)	Total/NA	Solid	8015B NM	45930
890-4071-11	S-4(0-1)	Total/NA	Solid	8015B NM	45930
890-4071-12	S-4(1-1.5)	Total/NA	Solid	8015B NM	45930
890-4071-13	S-4(2-2.5)	Total/NA	Solid	8015B NM	45930
890-4071-14	S-4(3-3.5)	Total/NA	Solid	8015B NM	45930
890-4071-15	H-1	Total/NA	Solid	8015B NM	45930
890-4071-16	H-2	Total/NA	Solid	8015B NM	45930
890-4071-17	H-3	Total/NA	Solid	8015B NM	45930
890-4071-18	H-4	Total/NA	Solid	8015B NM	45930
MB 880-45930/1-A	Method Blank	Total/NA	Solid	8015B NM	45930
LCS 880-45930/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	45930
LCSD 880-45930/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	45930
890-4071-2 MS	S-1(1-1.5)	Total/NA	Solid	8015B NM	45930
890-4071-2 MSD	S-1(1-1.5)	Total/NA	Solid	8015B NM	45930

Analysis Batch: 46215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4071-1	S-1(0-1)	Total/NA	Solid	8015 NM	
890-4071-2	S-1(1-1.5)	Total/NA	Solid	8015 NM	
890-4071-3	S-1(2-2.5)	Total/NA	Solid	8015 NM	

QC Association Summary

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2bs Com 5H

Job ID: 890-4071-1
SDG: 226666

GC Semi VOA (Continued)

Analysis Batch: 46215 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4071-4	S-1(3-3.5)	Total/NA	Solid	8015 NM	
890-4071-5	S-2(0-1)	Total/NA	Solid	8015 NM	
890-4071-6	S-2(1-1.5)	Total/NA	Solid	8015 NM	
890-4071-7	S-3(0-1)	Total/NA	Solid	8015 NM	
890-4071-8	S-3(1-1.5)	Total/NA	Solid	8015 NM	
890-4071-9	S-3(2-2.5)	Total/NA	Solid	8015 NM	
890-4071-10	S-3(3-3.5)	Total/NA	Solid	8015 NM	
890-4071-11	S-4(0-1)	Total/NA	Solid	8015 NM	
890-4071-12	S-4(1-1.5)	Total/NA	Solid	8015 NM	
890-4071-13	S-4(2-2.5)	Total/NA	Solid	8015 NM	
890-4071-14	S-4(3-3.5)	Total/NA	Solid	8015 NM	
890-4071-15	H-1	Total/NA	Solid	8015 NM	
890-4071-16	H-2	Total/NA	Solid	8015 NM	
890-4071-17	H-3	Total/NA	Solid	8015 NM	
890-4071-18	H-4	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 45994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4071-1	S-1(0-1)	Soluble	Solid	DI Leach	
890-4071-2	S-1(1-1.5)	Soluble	Solid	DI Leach	
890-4071-3	S-1(2-2.5)	Soluble	Solid	DI Leach	
890-4071-4	S-1(3-3.5)	Soluble	Solid	DI Leach	
890-4071-5	S-2(0-1)	Soluble	Solid	DI Leach	
890-4071-6	S-2(1-1.5)	Soluble	Solid	DI Leach	
890-4071-7	S-3(0-1)	Soluble	Solid	DI Leach	
890-4071-8	S-3(1-1.5)	Soluble	Solid	DI Leach	
890-4071-9	S-3(2-2.5)	Soluble	Solid	DI Leach	
890-4071-10	S-3(3-3.5)	Soluble	Solid	DI Leach	
890-4071-11	S-4(0-1)	Soluble	Solid	DI Leach	
890-4071-12	S-4(1-1.5)	Soluble	Solid	DI Leach	
890-4071-13	S-4(2-2.5)	Soluble	Solid	DI Leach	
890-4071-14	S-4(3-3.5)	Soluble	Solid	DI Leach	
890-4071-15	H-1	Soluble	Solid	DI Leach	
890-4071-16	H-2	Soluble	Solid	DI Leach	
890-4071-17	H-3	Soluble	Solid	DI Leach	
890-4071-18	H-4	Soluble	Solid	DI Leach	
MB 880-45994/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-45994/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-45994/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4071-1 MS	S-1(0-1)	Soluble	Solid	DI Leach	
890-4071-1 MSD	S-1(0-1)	Soluble	Solid	DI Leach	
890-4071-11 MS	S-4(0-1)	Soluble	Solid	DI Leach	
890-4071-11 MSD	S-4(0-1)	Soluble	Solid	DI Leach	

Analysis Batch: 46020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4071-1	S-1(0-1)	Soluble	Solid	300.0	45994
890-4071-2	S-1(1-1.5)	Soluble	Solid	300.0	45994
890-4071-3	S-1(2-2.5)	Soluble	Solid	300.0	45994

QC Association Summary

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2bs Com 5H

Job ID: 890-4071-1
SDG: 226666

HPLC/IC (Continued)

Analysis Batch: 46020 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4071-4	S-1(3-3.5)	Soluble	Solid	300.0	45994
890-4071-5	S-2(0-1)	Soluble	Solid	300.0	45994
890-4071-6	S-2(1-1.5)	Soluble	Solid	300.0	45994
890-4071-7	S-3(0-1)	Soluble	Solid	300.0	45994
890-4071-8	S-3(1-1.5)	Soluble	Solid	300.0	45994
890-4071-9	S-3(2-2.5)	Soluble	Solid	300.0	45994
890-4071-10	S-3(3-3.5)	Soluble	Solid	300.0	45994
890-4071-11	S-4(0-1)	Soluble	Solid	300.0	45994
890-4071-12	S-4(1-1.5)	Soluble	Solid	300.0	45994
890-4071-13	S-4(2-2.5)	Soluble	Solid	300.0	45994
890-4071-14	S-4(3-3.5)	Soluble	Solid	300.0	45994
890-4071-15	H-1	Soluble	Solid	300.0	45994
890-4071-16	H-2	Soluble	Solid	300.0	45994
890-4071-17	H-3	Soluble	Solid	300.0	45994
890-4071-18	H-4	Soluble	Solid	300.0	45994
MB 880-45994/1-A	Method Blank	Soluble	Solid	300.0	45994
LCS 880-45994/2-A	Lab Control Sample	Soluble	Solid	300.0	45994
LCSD 880-45994/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	45994
890-4071-1 MS	S-1(0-1)	Soluble	Solid	300.0	45994
890-4071-1 MSD	S-1(0-1)	Soluble	Solid	300.0	45994
890-4071-11 MS	S-4(0-1)	Soluble	Solid	300.0	45994
890-4071-11 MSD	S-4(0-1)	Soluble	Solid	300.0	45994

Lab Chronicle

Client: NT Global
Job ID: 890-4071-1
Project/Site: Buffalo 12-1 Federal 2bs Com 5H
SDG: 226666

Client Sample ID: S-1(0-1)
Lab Sample ID: 890-4071-1
Date Collected: 02/02/23 12:00
Matrix: Solid
Date Received: 02/08/23 16:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	45967	02/10/23 10:30	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	45955	02/11/23 04:30	MNR	EET MID
Total/NA	Prep	5035			5.03 g	5 mL	46022	02/10/23 15:23	MNR	EET MID
Total/NA	Analysis	8021B		200	5 mL	5 mL	46060	02/11/23 23:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46224	02/13/23 18:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			46215	02/13/23 17:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	45930	02/09/23 17:38	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46064	02/13/23 06:15	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	45994	02/10/23 13:15	KS	EET MID
Soluble	Analysis	300.0		10			46020	02/10/23 21:54	CH	EET MID

Client Sample ID: S-1(1-1.5)
Lab Sample ID: 890-4071-2
Date Collected: 02/02/23 12:00
Matrix: Solid
Date Received: 02/08/23 16:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	45967	02/10/23 10:30	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	45955	02/11/23 04:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46224	02/13/23 18:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			46215	02/13/23 17:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	45930	02/09/23 17:38	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46064	02/12/23 22:27	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	45994	02/10/23 13:15	KS	EET MID
Soluble	Analysis	300.0		5			46020	02/10/23 22:12	CH	EET MID

Client Sample ID: S-1(2-2.5)
Lab Sample ID: 890-4071-3
Date Collected: 02/02/23 12:00
Matrix: Solid
Date Received: 02/08/23 16:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	45967	02/10/23 10:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45955	02/11/23 04:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46224	02/13/23 18:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			46215	02/13/23 17:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	45930	02/09/23 17:38	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46064	02/12/23 23:32	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	45994	02/10/23 13:15	KS	EET MID
Soluble	Analysis	300.0		1			46020	02/10/23 22:19	CH	EET MID

Lab Chronicle

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2bs Com 5H

Job ID: 890-4071-1
SDG: 226666

Client Sample ID: S-1(3-3.5)

Date Collected: 02/02/23 12:00
Date Received: 02/08/23 16:24

Lab Sample ID: 890-4071-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	45967	02/10/23 10:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45955	02/11/23 01:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46224	02/13/23 18:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			46215	02/13/23 17:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	45930	02/09/23 17:38	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46064	02/12/23 23:53	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	45994	02/10/23 13:15	KS	EET MID
Soluble	Analysis	300.0		1			46020	02/10/23 22:25	CH	EET MID

Client Sample ID: S-2(0-1)

Date Collected: 02/02/23 12:00
Date Received: 02/08/23 16:24

Lab Sample ID: 890-4071-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	45967	02/10/23 10:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45955	02/11/23 02:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46224	02/13/23 18:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			46215	02/13/23 17:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	45930	02/09/23 17:38	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46064	02/13/23 00:14	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	45994	02/10/23 13:15	KS	EET MID
Soluble	Analysis	300.0		1			46020	02/10/23 22:31	CH	EET MID

Client Sample ID: S-2(1-1.5)

Date Collected: 02/02/23 12:00
Date Received: 02/08/23 16:24

Lab Sample ID: 890-4071-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	45967	02/10/23 10:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45955	02/11/23 02:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46224	02/13/23 18:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			46215	02/13/23 17:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	45930	02/09/23 17:38	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46064	02/13/23 00:36	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	45994	02/10/23 13:15	KS	EET MID
Soluble	Analysis	300.0		1			46020	02/10/23 22:49	CH	EET MID

Client Sample ID: S-3(0-1)

Date Collected: 02/02/23 12:00
Date Received: 02/08/23 16:24

Lab Sample ID: 890-4071-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	45967	02/10/23 10:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45955	02/11/23 02:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46224	02/13/23 18:42	SM	EET MID

Lab Chronicle

Client: NT Global
Job ID: 890-4071-1
Project/Site: Buffalo 12-1 Federal 2bs Com 5H
SDG: 226666

Client Sample ID: S-3(0-1)
Lab Sample ID: 890-4071-7
Date Collected: 02/02/23 12:00
Matrix: Solid
Date Received: 02/08/23 16:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			46215	02/13/23 17:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	45930	02/09/23 17:38	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46064	02/13/23 00:57	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	45994	02/10/23 13:15	KS	EET MID
Soluble	Analysis	300.0		1			46020	02/10/23 22:55	CH	EET MID

Client Sample ID: S-3(1-1.5)
Lab Sample ID: 890-4071-8
Date Collected: 02/02/23 12:00
Matrix: Solid
Date Received: 02/08/23 16:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	45967	02/10/23 10:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45955	02/11/23 03:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46224	02/13/23 18:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			46215	02/13/23 17:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	45930	02/09/23 17:38	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46064	02/13/23 01:18	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	45994	02/10/23 13:15	KS	EET MID
Soluble	Analysis	300.0		1			46020	02/10/23 23:02	CH	EET MID

Client Sample ID: S-3(2-2.5)
Lab Sample ID: 890-4071-9
Date Collected: 02/02/23 12:00
Matrix: Solid
Date Received: 02/08/23 16:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	45967	02/10/23 10:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45955	02/11/23 03:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46224	02/13/23 18:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			46215	02/13/23 17:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	45930	02/09/23 17:38	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46064	02/13/23 01:39	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	45994	02/10/23 13:15	KS	EET MID
Soluble	Analysis	300.0		1			46020	02/10/23 23:08	CH	EET MID

Client Sample ID: S-3(3-3.5)
Lab Sample ID: 890-4071-10
Date Collected: 02/02/23 12:00
Matrix: Solid
Date Received: 02/08/23 16:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	45967	02/10/23 10:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45955	02/11/23 03:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46224	02/13/23 18:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			46215	02/13/23 17:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	45930	02/09/23 17:38	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46064	02/13/23 02:01	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: NT Global
Job ID: 890-4071-1
Project/Site: Buffalo 12-1 Federal 2bs Com 5H
SDG: 226666

Client Sample ID: S-3(3-3.5)
Lab Sample ID: 890-4071-10
Date Collected: 02/02/23 12:00
Matrix: Solid
Date Received: 02/08/23 16:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	45994	02/10/23 13:15	KS	EET MID
Soluble	Analysis	300.0		1			46020	02/10/23 23:14	CH	EET MID

Client Sample ID: S-4(0-1)
Lab Sample ID: 890-4071-11
Date Collected: 02/02/23 12:00
Matrix: Solid
Date Received: 02/08/23 16:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	45967	02/10/23 10:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45955	02/11/23 06:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46224	02/13/23 18:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			46215	02/13/23 17:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	45930	02/09/23 17:38	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46064	02/13/23 02:22	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	45994	02/10/23 13:15	KS	EET MID
Soluble	Analysis	300.0		1			46020	02/10/23 23:20	CH	EET MID

Client Sample ID: S-4(1-1.5)
Lab Sample ID: 890-4071-12
Date Collected: 02/02/23 12:00
Matrix: Solid
Date Received: 02/08/23 16:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	45967	02/10/23 10:30	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	45955	02/11/23 09:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46224	02/13/23 18:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			46215	02/13/23 17:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	45930	02/09/23 17:38	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46064	02/13/23 03:05	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	45994	02/10/23 13:15	KS	EET MID
Soluble	Analysis	300.0		1			46020	02/10/23 23:39	CH	EET MID

Client Sample ID: S-4(2-2.5)
Lab Sample ID: 890-4071-13
Date Collected: 02/02/23 12:00
Matrix: Solid
Date Received: 02/08/23 16:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	45967	02/10/23 10:30	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	45955	02/11/23 09:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46224	02/13/23 18:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			46215	02/13/23 17:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	45930	02/09/23 17:38	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46064	02/13/23 03:26	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	45994	02/10/23 13:15	KS	EET MID
Soluble	Analysis	300.0		1			46020	02/10/23 23:45	CH	EET MID

Lab Chronicle

Client: NT Global
Job ID: 890-4071-1
Project/Site: Buffalo 12-1 Federal 2bs Com 5H
SDG: 226666

Client Sample ID: S-4(3-3.5)
Lab Sample ID: 890-4071-14
Date Collected: 02/02/23 12:00
Matrix: Solid
Date Received: 02/08/23 16:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	45967	02/10/23 10:30	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	45955	02/11/23 09:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46224	02/13/23 18:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			46215	02/13/23 17:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	45930	02/09/23 17:38	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46064	02/13/23 03:47	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	45994	02/10/23 13:15	KS	EET MID
Soluble	Analysis	300.0		1			46020	02/11/23 00:04	CH	EET MID

Client Sample ID: H-1
Lab Sample ID: 890-4071-15
Date Collected: 02/02/23 12:00
Matrix: Solid
Date Received: 02/08/23 16:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	45967	02/10/23 10:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45955	02/11/23 07:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46224	02/13/23 18:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			46215	02/13/23 17:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	45930	02/09/23 17:38	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46064	02/13/23 04:08	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	45994	02/10/23 13:15	KS	EET MID
Soluble	Analysis	300.0		1			46020	02/11/23 00:10	CH	EET MID

Client Sample ID: H-2
Lab Sample ID: 890-4071-16
Date Collected: 02/02/23 12:00
Matrix: Solid
Date Received: 02/08/23 16:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	45967	02/10/23 10:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45955	02/11/23 07:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46224	02/13/23 18:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			46215	02/13/23 17:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	45930	02/09/23 17:38	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46064	02/13/23 04:29	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	45994	02/10/23 13:15	KS	EET MID
Soluble	Analysis	300.0		1			46020	02/11/23 00:16	CH	EET MID

Client Sample ID: H-3
Lab Sample ID: 890-4071-17
Date Collected: 02/02/23 12:00
Matrix: Solid
Date Received: 02/08/23 16:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	45967	02/10/23 10:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45955	02/11/23 07:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46224	02/13/23 18:42	SM	EET MID

Lab Chronicle

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2bs Com 5H

Job ID: 890-4071-1
SDG: 226666

Client Sample ID: H-3

Lab Sample ID: 890-4071-17

Date Collected: 02/02/23 12:00
Matrix: Solid
Date Received: 02/08/23 16:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			46215	02/13/23 17:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	45930	02/09/23 17:38	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46064	02/13/23 04:50	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	45994	02/10/23 13:15	KS	EET MID
Soluble	Analysis	300.0		1			46020	02/11/23 00:22	CH	EET MID

Client Sample ID: H-4

Lab Sample ID: 890-4071-18

Date Collected: 02/02/23 12:00
Matrix: Solid
Date Received: 02/08/23 16:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	45967	02/10/23 10:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45955	02/11/23 08:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46224	02/13/23 18:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			46215	02/13/23 17:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	45930	02/09/23 17:38	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46064	02/13/23 05:12	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	45994	02/10/23 13:15	KS	EET MID
Soluble	Analysis	300.0		1			46020	02/11/23 00:28	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: NT Global
Job ID: 890-4071-1
Project/Site: Buffalo 12-1 Federal 2bs Com 5H
SDG: 226666

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

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
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2bs Com 5H

Job ID: 890-4071-1
SDG: 226666

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2bs Com 5H

Job ID: 890-4071-1
SDG: 226666

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-4071-1	S-1(0-1)	Solid	02/02/23 12:00	02/08/23 16:24
890-4071-2	S-1(1-1.5)	Solid	02/02/23 12:00	02/08/23 16:24
890-4071-3	S-1(2-2.5)	Solid	02/02/23 12:00	02/08/23 16:24
890-4071-4	S-1(3-3.5)	Solid	02/02/23 12:00	02/08/23 16:24
890-4071-5	S-2(0-1)	Solid	02/02/23 12:00	02/08/23 16:24
890-4071-6	S-2(1-1.5)	Solid	02/02/23 12:00	02/08/23 16:24
890-4071-7	S-3(0-1)	Solid	02/02/23 12:00	02/08/23 16:24
890-4071-8	S-3(1-1.5)	Solid	02/02/23 12:00	02/08/23 16:24
890-4071-9	S-3(2-2.5)	Solid	02/02/23 12:00	02/08/23 16:24
890-4071-10	S-3(3-3.5)	Solid	02/02/23 12:00	02/08/23 16:24
890-4071-11	S-4(0-1)	Solid	02/02/23 12:00	02/08/23 16:24
890-4071-12	S-4(1-1.5)	Solid	02/02/23 12:00	02/08/23 16:24
890-4071-13	S-4(2-2.5)	Solid	02/02/23 12:00	02/08/23 16:24
890-4071-14	S-4(3-3.5)	Solid	02/02/23 12:00	02/08/23 16:24
890-4071-15	H-1	Solid	02/02/23 12:00	02/08/23 16:24
890-4071-16	H-2	Solid	02/02/23 12:00	02/08/23 16:24
890-4071-17	H-3	Solid	02/02/23 12:00	02/08/23 16:24
890-4071-18	H-4	Solid	02/02/23 12:00	02/08/23 16:24

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Chain of Custody

NTG ENVIRONMENTAL

Work Order No: _____

2/13/2023

Page 1 of 2

Project Manager:	Becky Haskell	Bill to: (if different)	Chris Martin
Company Name:	NTG Environmental	Company Name:	Earthstone Operating, LLC
Address:	701 Tradewinds BLVD	Address:	600 N. Marienfeld Suite 1000
City, State ZIP:	Midland, TX 79706	City, State ZIP:	Midland, Tx 79701
Phone:	432)766-1918	Email:	Bhaskell@ntglobal.com, Cmartin@earthstoneenergy.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Buffalo 12-1 Federal 2bs Com 5H	Turn Around	
Project Number:	226666	☑ Routine ☐ Rush	
Project Location	Eddy Co. NM	Due Date:	
Sampler's Name:	Jordan Tyner	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT	Temp Blank:	Yes No	Wet Ice: Yes No
Received Intact:	Yes No	Thermometer ID:	TMM007
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	2.8
Total Containers:	18	Corrected Temperature:	2.6

Preservative Codes

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

ANALYSIS REQUEST

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500	HOLD	Sample Comments
S-1(0-1)	2/2/2023		X		Grab/	1		X	X	X		
S-1(1-1.5)	2/2/2023		X		Grab/	1		X	X	X		
S-1(2-2.5)	2/2/2023		X		Grab/	1		X	X	X		
S-1(3-3.5)	2/2/2023		X		Grab/	1		X	X	X		
S-2(0-1)	2/2/2023		X		Grab/	1		X	X	X		
S-2(1-1.5)	2/2/2023		X		Grab/	1		X	X	X		
S-3(0-1)	2/2/2023		X		Grab/	1		X	X	X		
S-3(1-1.5)	2/2/2023		X		Grab/	1		X	X	X		
S-3(2-2.5)	2/2/2023		X		Grab/	1		X	X	X		
S-3(3-3.5)	2/2/2023		X		Grab/	1		X	X	X		

Additional Comments:

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Jordan Tyner	Amanda Shaw	2-8-23 1624	2		
3			4		
5			6		

Revised Date 05012020 Rev. 2020 1

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Received by OCD: 3/18/2023 12:00:12 AM

Released to Imaging: 4/25/2023 11:41:33 AM

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Chain of Custody

NTG ENVIRONMENTAL

Work Order No: _____

2/13/2023

Page 2 of 2

Project Manager:	Becky Haskell	Bill to: (if different)	Chris Martin
Company Name:	NTG Environmental	Company Name:	Earthstone Operating, LLC
Address:	701 Tradewinds BLVD	Address:	600 N. Marienfeld Suite 1000
City, State ZIP:	Midland, TX 79706	City, State ZIP:	Midland, Tx 79701
Phone:	432)766-1918	Email:	Bhaskell@ntglobal.com, Cmartin@earthstoneenergy.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Buffalo 12-1 Federal 2bs Com 5H	Turn Around	
Project Number:	226666	☑ Routine ☐ Rush	
Project Location	Eddy Co. NM	Due Date:	
Sampler's Name:	Jordan Tyner	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Received Intact:	Yes No	Thermometer ID:	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	
Total Containers:	18	Corrected Temperature:	

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	Parameters	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500	HOLD	Sample Comments
S-4(0-1)	2/2/2023		X		Grab/	1			X	X	X		
S-4(1-1.5)	2/2/2023		X		Grab/	1			X	X	X		
S-4(2-2.5)	2/2/2023		X		Grab/	1			X	X	X		
S-4(3-3.5)	2/2/2023		X		Grab/	1			X	X	X		
H-1	2/2/2023		X		Grab/	1			X	X	X		
H-2	2/2/2023		X		Grab/	1			X	X	X		
H-3	2/2/2023		X		Grab/	1			X	X	X		
H-4	2/2/2023		X		Grab/	1			X	X	X		

Preservative Codes

None: NO — DI Water: H_2O

Cool: Cool — MeOH: Me

HCL: HC — HNO_3: HN

H_2S0_4: H_2 — NaOH: Na

H_3PO_4: HP

$NaHSO_4$: NABIS

$Na_2S_2O_3$: $NaSO_3$

Zn Acetate+NaOH: Zn

NaOH+Ascorbic Acid: SAPC

Additional Comments:

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		2-8-23 1642	2		
3			4		
5			6		

Revised Date 05012020 Rev. 2020.1

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Received by OCD: 3/18/2023 12:00:12 AM

Released to Imaging: 4/25/2023 11:41:33 AM

Login Sample Receipt Checklist

Client: NT Global

Job Number: 890-4071-1
SDG Number: 226666

Login Number: 4071
List Number: 1
Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
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	

Login Sample Receipt Checklist

Client: NT Global

Job Number: 890-4071-1
SDG Number: 226666

Login Number: 4071
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 02/10/23 11:50 AM

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Becky Haskell
NT Global
701 Tradewinds Blvd
Midland, Texas 79706

Generated 2/28/2023 3:53:27 PM Revision 1

JOB DESCRIPTION

Buffalo 12-1 Federal 2BS
SDG NUMBER 226666

JOB NUMBER

890-4134-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 4/25/2023 11:41:35 AM

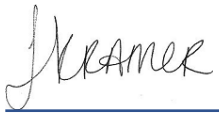
my EOL

Eurofins Carlsbad

Job Notes

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

Authorization



Generated
2/28/2023 3:53:27 PM
Revision 1

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

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2BS

Laboratory Job ID: 890-4134-1
SDG: 226666

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Definitions/Glossary

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2BS

Job ID: 890-4134-1
SDG: 226666

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
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: NT Global
Project/Site: Buffalo 12-1 Federal 2BS

Job ID: 890-4134-1
SDG: 226666

Job ID: 890-4134-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-4134-1

REVISION

The report being provided is a revision of the original report sent on 2/28/2023. The report (revision 1) is being revised due to Incorrect project information on final report, project ID added.

Report revision history

Receipt
The samples were received on 2/17/2023 12:42 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice.

GC VOA
Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-47303 and analytical batch 880-47274 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

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

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

Client Sample Results

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2BS

Job ID: 890-4134-1
SDG: 226666

Client Sample ID: CS-1 (1)

Date Collected: 02/17/23 00:00
Date Received: 02/17/23 12:42
Sample Depth: 1

Lab Sample ID: 890-4134-1

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		02/24/23 13:25	02/25/23 15:04	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/24/23 13:25	02/25/23 15:04	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/24/23 13:25	02/25/23 15:04	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		02/24/23 13:25	02/25/23 15:04	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/24/23 13:25	02/25/23 15:04	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		02/24/23 13:25	02/25/23 15:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*02/24/23 13:25*	*02/25/23 15:04*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*02/24/23 13:25*	*02/25/23 15:04*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			02/27/23 16:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/24/23 13:40	1

Method: SW846 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		02/23/23 09:10	02/23/23 12:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/23/23 09:10	02/23/23 12:04	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/23/23 09:10	02/23/23 12:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*02/23/23 09:10*	*02/23/23 12:04*	*1*
o-Terphenyl	*92*		*70 - 130*	*02/23/23 09:10*	*02/23/23 12:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**58.6**		4.95		mg/Kg			02/23/23 04:53	1

Client Sample ID: CS-2 (1)

Date Collected: 02/17/23 00:00
Date Received: 02/17/23 12:42
Sample Depth: 1

Lab Sample ID: 890-4134-2

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/24/23 13:25	02/25/23 15:24	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/24/23 13:25	02/25/23 15:24	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/24/23 13:25	02/25/23 15:24	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/24/23 13:25	02/25/23 15:24	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/24/23 13:25	02/25/23 15:24	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/24/23 13:25	02/25/23 15:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*02/24/23 13:25*	*02/25/23 15:24*	*1*

Client Sample Results

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2BS

Job ID: 890-4134-1
SDG: 226666

Client Sample ID: CS-2 (1)

Date Collected: 02/17/23 00:00
Date Received: 02/17/23 12:42
Sample Depth: 1

Lab Sample ID: 890-4134-2

Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*02/24/23 13:25*	*02/25/23 15:24*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/27/23 16:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/24/23 13:40	1

Method: SW846 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		02/23/23 09:10	02/23/23 12:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/23/23 09:10	02/23/23 12:48	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/23/23 09:10	02/23/23 12:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*02/23/23 09:10*	*02/23/23 12:48*	*1*
o-Terphenyl	*88*		*70 - 130*	*02/23/23 09:10*	*02/23/23 12:48*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**59.9**		5.00		mg/Kg			02/23/23 04:58	1

Client Sample ID: CS-3 (1)

Date Collected: 02/17/23 00:00
Date Received: 02/17/23 12:42
Sample Depth: 1

Lab Sample ID: 890-4134-3

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		02/24/23 13:25	02/25/23 15:45	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/24/23 13:25	02/25/23 15:45	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/24/23 13:25	02/25/23 15:45	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		02/24/23 13:25	02/25/23 15:45	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/24/23 13:25	02/25/23 15:45	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		02/24/23 13:25	02/25/23 15:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*02/24/23 13:25*	*02/25/23 15:45*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*02/24/23 13:25*	*02/25/23 15:45*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			02/27/23 16:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/24/23 13:40	1

Client Sample Results

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2BS

Job ID: 890-4134-1
SDG: 226666

Client Sample ID: CS-3 (1)

Date Collected: 02/17/23 00:00
Date Received: 02/17/23 12:42
Sample Depth: 1

Lab Sample ID: 890-4134-3

Matrix: Solid

Method: SW846 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		02/23/23 09:10	02/23/23 13:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/23/23 09:10	02/23/23 13:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/23/23 09:10	02/23/23 13:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*02/23/23 09:10*	*02/23/23 13:10*	*1*
o-Terphenyl	*95*		*70 - 130*	*02/23/23 09:10*	*02/23/23 13:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**37.5**		4.97		mg/Kg			02/23/23 05:12	1

Client Sample ID: CS-4 (1)

Date Collected: 02/17/23 00:00
Date Received: 02/17/23 12:42
Sample Depth: 1

Lab Sample ID: 890-4134-4

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		02/24/23 13:25	02/25/23 16:05	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/24/23 13:25	02/25/23 16:05	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/24/23 13:25	02/25/23 16:05	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		02/24/23 13:25	02/25/23 16:05	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/24/23 13:25	02/25/23 16:05	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		02/24/23 13:25	02/25/23 16:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*02/24/23 13:25*	*02/25/23 16:05*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*02/24/23 13:25*	*02/25/23 16:05*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			02/27/23 16:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/24/23 13:40	1

Method: SW846 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		02/23/23 09:10	02/23/23 13:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/23/23 09:10	02/23/23 13:32	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/23/23 09:10	02/23/23 13:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*02/23/23 09:10*	*02/23/23 13:32*	*1*
o-Terphenyl	*82*		*70 - 130*	*02/23/23 09:10*	*02/23/23 13:32*	*1*

Client Sample Results

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2BS

Job ID: 890-4134-1
SDG: 226666

Client Sample ID: CS-4 (1)

Lab Sample ID: 890-4134-4
Matrix: Solid
Date Collected: 02/17/23 00:00
Date Received: 02/17/23 12:42
Sample Depth: 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	102		4.99		mg/Kg			02/23/23 05:17	1

Client Sample ID: CS-5 (1)

Lab Sample ID: 890-4134-5
Matrix: Solid
Date Collected: 02/17/23 00:00
Date Received: 02/17/23 12:42
Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/24/23 13:25	02/25/23 16:26	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/24/23 13:25	02/25/23 16:26	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/24/23 13:25	02/25/23 16:26	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/24/23 13:25	02/25/23 16:26	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/24/23 13:25	02/25/23 16:26	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/24/23 13:25	02/25/23 16:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*02/24/23 13:25*	*02/25/23 16:26*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*02/24/23 13:25*	*02/25/23 16:26*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/27/23 16:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/24/23 13:40	1

Method: SW846 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		02/23/23 09:10	02/23/23 13:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/23/23 09:10	02/23/23 13:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/23/23 09:10	02/23/23 13:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*02/23/23 09:10*	*02/23/23 13:54*	*1*
o-Terphenyl	*98*		*70 - 130*	*02/23/23 09:10*	*02/23/23 13:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	89.5		5.02		mg/Kg			02/23/23 05:22	1

Client Sample Results

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2BS

Job ID: 890-4134-1
SDG: 226666

Client Sample ID: CS-6 (1)

Date Collected: 02/17/23 00:00
Date Received: 02/17/23 12:42
Sample Depth: 1

Lab Sample ID: 890-4134-6

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/27/23 11:21	02/28/23 04:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/27/23 11:21	02/28/23 04:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/27/23 11:21	02/28/23 04:46	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/27/23 11:21	02/28/23 04:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/27/23 11:21	02/28/23 04:46	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/27/23 11:21	02/28/23 04:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*02/27/23 11:21*	*02/28/23 04:46*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*02/27/23 11:21*	*02/28/23 04:46*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/28/23 15:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/24/23 13:40	1

Method: SW846 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		02/23/23 09:10	02/23/23 14:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/23/23 09:10	02/23/23 14:16	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/23/23 09:10	02/23/23 14:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*02/23/23 09:10*	*02/23/23 14:16*	*1*
o-Terphenyl	*89*		*70 - 130*	*02/23/23 09:10*	*02/23/23 14:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**67.3**		4.95		mg/Kg			02/23/23 05:26	1

Client Sample ID: CS-7 (1)

Date Collected: 02/17/23 00:00
Date Received: 02/17/23 12:42
Sample Depth: 1

Lab Sample ID: 890-4134-7

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/27/23 11:21	02/28/23 05:07	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/27/23 11:21	02/28/23 05:07	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/27/23 11:21	02/28/23 05:07	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/27/23 11:21	02/28/23 05:07	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/27/23 11:21	02/28/23 05:07	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/27/23 11:21	02/28/23 05:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*02/27/23 11:21*	*02/28/23 05:07*	*1*

Client Sample Results

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2BS

Job ID: 890-4134-1
SDG: 226666

Client Sample ID: CS-7 (1)

Date Collected: 02/17/23 00:00
Date Received: 02/17/23 12:42
Sample Depth: 1

Lab Sample ID: 890-4134-7

Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*02/27/23 11:21*	*02/28/23 05:07*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/28/23 15:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/24/23 13:40	1

Method: SW846 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		02/23/23 09:10	02/23/23 14:38	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/23/23 09:10	02/23/23 14:38	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/23/23 09:10	02/23/23 14:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*02/23/23 09:10*	*02/23/23 14:38*	*1*
o-Terphenyl	*88*		*70 - 130*	*02/23/23 09:10*	*02/23/23 14:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**163**		5.01		mg/Kg			02/23/23 05:31	1

Client Sample ID: CS-8 (2)

Date Collected: 02/17/23 00:00
Date Received: 02/17/23 12:42
Sample Depth: 2

Lab Sample ID: 890-4134-8

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/27/23 11:21	02/28/23 05:27	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/27/23 11:21	02/28/23 05:27	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/27/23 11:21	02/28/23 05:27	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/27/23 11:21	02/28/23 05:27	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/27/23 11:21	02/28/23 05:27	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/27/23 11:21	02/28/23 05:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*02/27/23 11:21*	*02/28/23 05:27*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*02/27/23 11:21*	*02/28/23 05:27*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/28/23 15:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/24/23 13:40	1

Client Sample Results

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2BS

Job ID: 890-4134-1
SDG: 226666

Client Sample ID: CS-8 (2)

Date Collected: 02/17/23 00:00
Date Received: 02/17/23 12:42
Sample Depth: 2

Lab Sample ID: 890-4134-8

Matrix: Solid

Method: SW846 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		02/23/23 09:10	02/23/23 15:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/23/23 09:10	02/23/23 15:00	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/23/23 09:10	02/23/23 15:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*02/23/23 09:10*	*02/23/23 15:00*	*1*
o-Terphenyl	*94*		*70 - 130*	*02/23/23 09:10*	*02/23/23 15:00*	*1*

Method: EPA 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			02/23/23 05:35	1

Client Sample ID: CS-9 (2)

Date Collected: 02/17/23 00:00
Date Received: 02/17/23 12:42
Sample Depth: 2

Lab Sample ID: 890-4134-9

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/27/23 11:21	02/28/23 05:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/27/23 11:21	02/28/23 05:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/27/23 11:21	02/28/23 05:48	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/27/23 11:21	02/28/23 05:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/27/23 11:21	02/28/23 05:48	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/27/23 11:21	02/28/23 05:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*02/27/23 11:21*	*02/28/23 05:48*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*02/27/23 11:21*	*02/28/23 05:48*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/28/23 15:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/24/23 13:40	1

Method: SW846 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		02/23/23 09:10	02/23/23 15:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/23/23 09:10	02/23/23 15:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/23/23 09:10	02/23/23 15:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*02/23/23 09:10*	*02/23/23 15:22*	*1*
o-Terphenyl	*101*		*70 - 130*	*02/23/23 09:10*	*02/23/23 15:22*	*1*

Client Sample Results

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2BS

Job ID: 890-4134-1
SDG: 226666

Client Sample ID: CS-9 (2)

Lab Sample ID: 890-4134-9
Matrix: Solid
Date Collected: 02/17/23 00:00
Date Received: 02/17/23 12:42
Sample Depth: 2

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.99		5.00		mg/Kg			02/23/23 05:49	1

Client Sample ID: CS-10 (3)

Lab Sample ID: 890-4134-10
Matrix: Solid
Date Collected: 02/17/23 00:00
Date Received: 02/17/23 12:42
Sample Depth: 3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/27/23 11:21	02/28/23 06:08	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/27/23 11:21	02/28/23 06:08	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/27/23 11:21	02/28/23 06:08	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/27/23 11:21	02/28/23 06:08	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/27/23 11:21	02/28/23 06:08	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/27/23 11:21	02/28/23 06:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*02/27/23 11:21*	*02/28/23 06:08*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*02/27/23 11:21*	*02/28/23 06:08*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/28/23 15:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/24/23 13:40	1

Method: SW846 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		02/23/23 09:10	02/23/23 15:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/23/23 09:10	02/23/23 15:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/23/23 09:10	02/23/23 15:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*02/23/23 09:10*	*02/23/23 15:43*	*1*
o-Terphenyl	*86*		*70 - 130*	*02/23/23 09:10*	*02/23/23 15:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.2		4.99		mg/Kg			02/23/23 05:54	1

Client Sample Results

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2BS

Job ID: 890-4134-1
SDG: 226666

Client Sample ID: CS-11 (3)

Date Collected: 02/17/23 00:00
Date Received: 02/17/23 12:42
Sample Depth: 3

Lab Sample ID: 890-4134-11

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/27/23 11:21	02/28/23 06:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/27/23 11:21	02/28/23 06:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/27/23 11:21	02/28/23 06:29	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/27/23 11:21	02/28/23 06:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/27/23 11:21	02/28/23 06:29	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/27/23 11:21	02/28/23 06:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*02/27/23 11:21*	*02/28/23 06:29*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*02/27/23 11:21*	*02/28/23 06:29*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/28/23 15:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/24/23 13:40	1

Method: SW846 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		02/23/23 09:10	02/23/23 16:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/23/23 09:10	02/23/23 16:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/23/23 09:10	02/23/23 16:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*02/23/23 09:10*	*02/23/23 16:28*	*1*
o-Terphenyl	*97*		*70 - 130*	*02/23/23 09:10*	*02/23/23 16:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.03**		4.95		mg/Kg			02/23/23 06:08	1

Client Sample ID: SW-1 (0-1)

Date Collected: 02/17/23 00:00
Date Received: 02/17/23 12:42
Sample Depth: 0 - 1

Lab Sample ID: 890-4134-12

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/27/23 11:21	02/28/23 06:49	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/27/23 11:21	02/28/23 06:49	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/27/23 11:21	02/28/23 06:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/27/23 11:21	02/28/23 06:49	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/27/23 11:21	02/28/23 06:49	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/27/23 11:21	02/28/23 06:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*02/27/23 11:21*	*02/28/23 06:49*	*1*

Client Sample Results

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2BS

Job ID: 890-4134-1
SDG: 226666

Client Sample ID: SW-1 (0-1)

Lab Sample ID: 890-4134-12
Matrix: Solid
Date Collected: 02/17/23 00:00
Date Received: 02/17/23 12:42
Sample Depth: 0 - 1

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*02/27/23 11:21*	*02/28/23 06:49*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/28/23 15:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/24/23 13:40	1

Method: SW846 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		02/23/23 09:10	02/23/23 16:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/23/23 09:10	02/23/23 16:50	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/23/23 09:10	02/23/23 16:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*02/23/23 09:10*	*02/23/23 16:50*	*1*
o-Terphenyl	*86*		*70 - 130*	*02/23/23 09:10*	*02/23/23 16:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**31.1**		4.95		mg/Kg			02/23/23 06:13	1

Client Sample ID: SW-2 (1-2)

Lab Sample ID: 890-4134-13
Matrix: Solid
Date Collected: 02/17/23 00:00
Date Received: 02/17/23 12:42
Sample Depth: 1 - 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/27/23 11:21	02/28/23 07:10	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/27/23 11:21	02/28/23 07:10	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/27/23 11:21	02/28/23 07:10	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/27/23 11:21	02/28/23 07:10	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/27/23 11:21	02/28/23 07:10	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/27/23 11:21	02/28/23 07:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*02/27/23 11:21*	*02/28/23 07:10*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*02/27/23 11:21*	*02/28/23 07:10*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/28/23 15:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/24/23 13:40	1

Client Sample Results

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2BS

Job ID: 890-4134-1
SDG: 226666

Client Sample ID: SW-2 (1-2)

Lab Sample ID: 890-4134-13
Matrix: Solid
Date Collected: 02/17/23 00:00
Date Received: 02/17/23 12:42
Sample Depth: 1 - 2

Method: SW846 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		02/23/23 09:10	02/23/23 17:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/23/23 09:10	02/23/23 17:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/23/23 09:10	02/23/23 17:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*02/23/23 09:10*	*02/23/23 17:12*	*1*
o-Terphenyl	*85*		*70 - 130*	*02/23/23 09:10*	*02/23/23 17:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**68.0**		4.97		mg/Kg			02/23/23 06:17	1

Client Sample ID: SW-3 (2-3)

Lab Sample ID: 890-4134-14
Matrix: Solid
Date Collected: 02/17/23 00:00
Date Received: 02/17/23 12:42
Sample Depth: 2 - 3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/27/23 11:21	02/28/23 07:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/27/23 11:21	02/28/23 07:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/27/23 11:21	02/28/23 07:30	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/27/23 11:21	02/28/23 07:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/27/23 11:21	02/28/23 07:30	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/27/23 11:21	02/28/23 07:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*02/27/23 11:21*	*02/28/23 07:30*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*02/27/23 11:21*	*02/28/23 07:30*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/28/23 15:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/24/23 13:40	1

Method: SW846 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		02/23/23 09:10	02/23/23 17:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/23/23 09:10	02/23/23 17:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/23/23 09:10	02/23/23 17:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*02/23/23 09:10*	*02/23/23 17:34*	*1*
o-Terphenyl	*88*		*70 - 130*	*02/23/23 09:10*	*02/23/23 17:34*	*1*

Client Sample Results

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2BS

Job ID: 890-4134-1
SDG: 226666

Client Sample ID: SW-3 (2-3)

Lab Sample ID: 890-4134-14
Matrix: Solid
Date Collected: 02/17/23 00:00
Date Received: 02/17/23 12:42
Sample Depth: 2 - 3

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.84		5.04		mg/Kg			02/23/23 06:22	1

Client Sample ID: SW-4 (0-3)

Lab Sample ID: 890-4134-15
Matrix: Solid
Date Collected: 02/17/23 00:00
Date Received: 02/17/23 12:42
Sample Depth: 0 - 3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/27/23 11:21	02/28/23 08:08	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/27/23 11:21	02/28/23 08:08	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/27/23 11:21	02/28/23 08:08	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/27/23 11:21	02/28/23 08:08	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/27/23 11:21	02/28/23 08:08	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/27/23 11:21	02/28/23 08:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*02/27/23 11:21*	*02/28/23 08:08*	*1*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*	*02/27/23 11:21*	*02/28/23 08:08*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/28/23 15:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/24/23 13:40	1

Method: SW846 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		02/23/23 09:10	02/23/23 17:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/23/23 09:10	02/23/23 17:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/23/23 09:10	02/23/23 17:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*80*		*70 - 130*	*02/23/23 09:10*	*02/23/23 17:56*	*1*
o-Terphenyl	*85*		*70 - 130*	*02/23/23 09:10*	*02/23/23 17:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	77.9		4.99		mg/Kg			02/23/23 06:27	1

Surrogate Summary

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2BS

Job ID: 890-4134-1
SDG: 226666

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)										
880-25179-A-1-D MS	Matrix Spike	112	112										
880-25179-A-1-E MSD	Matrix Spike Duplicate	107	113										
890-4134-1	CS-1 (1)	113	110										
890-4134-2	CS-2 (1)	113	113										
890-4134-3	CS-3 (1)	113	112										
890-4134-4	CS-4 (1)	106	107										
890-4134-5	CS-5 (1)	114	108										
890-4134-6	CS-6 (1)	117	104										
890-4134-7	CS-7 (1)	114	107										
890-4134-8	CS-8 (2)	119	107										
890-4134-9	CS-9 (2)	112	105										
890-4134-10	CS-10 (3)	114	110										
890-4134-11	CS-11 (3)	111	108										
890-4134-12	SW-1 (0-1)	114	112										
890-4134-13	SW-2 (1-2)	115	110										
890-4134-14	SW-3 (2-3)	106	110										
890-4134-15	SW-4 (0-3)	121	116										
890-4139-A-1-G MS	Matrix Spike	107	110										
890-4139-A-1-H MSD	Matrix Spike Duplicate	109	112										
LCS 880-47173/1-A	Lab Control Sample	108	109										
LCS 880-47303/1-A	Lab Control Sample	111	106										
LCSD 880-47173/2-A	Lab Control Sample Dup	106	107										
LCSD 880-47303/2-A	Lab Control Sample Dup	114	112										
MB 880-47016/5-B	Method Blank	102	100										
MB 880-47173/5-A	Method Blank	102	106										
MB 880-47212/5-A	Method Blank	101	106										
MB 880-47303/5-A	Method Blank	107	104										

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)										
890-4134-1	CS-1 (1)	88	92										
890-4134-1 MS	CS-1 (1)	85	82										
890-4134-1 MSD	CS-1 (1)	99	91										
890-4134-2	CS-2 (1)	83	88										
890-4134-3	CS-3 (1)	90	95										
890-4134-4	CS-4 (1)	78	82										
890-4134-5	CS-5 (1)	100	98										
890-4134-6	CS-6 (1)	84	89										
890-4134-7	CS-7 (1)	82	88										
890-4134-8	CS-8 (2)	94	94										
890-4134-9	CS-9 (2)	101	101										
890-4134-10	CS-10 (3)	81	86										

Surrogate Summary

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2BS

Job ID: 890-4134-1
SDG: 226666

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)								
890-4134-11	CS-11 (3)	100	97								
890-4134-12	SW-1 (0-1)	82	86								
890-4134-13	SW-2 (1-2)	82	85								
890-4134-14	SW-3 (2-3)	90	88								
890-4134-15	SW-4 (0-3)	80	85								
LCS 880-47002/2-A	Lab Control Sample	103	113								
LCSD 880-47002/3-A	Lab Control Sample Dup	101	102								
MB 880-47002/1-A	Method Blank	112	126								

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2BS

Job ID: 890-4134-1
SDG: 226666

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-47016/5-B
Matrix: Solid
Analysis Batch: 47140

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 47016

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/24/23 11:42	02/25/23 01:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/24/23 11:42	02/25/23 01:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/24/23 11:42	02/25/23 01:15	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/24/23 11:42	02/25/23 01:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/24/23 11:42	02/25/23 01:15	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/24/23 11:42	02/25/23 01:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*02/24/23 11:42*	*02/25/23 01:15*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*02/24/23 11:42*	*02/25/23 01:15*	*1*

Lab Sample ID: MB 880-47173/5-A
Matrix: Solid
Analysis Batch: 47140

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 47173

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/24/23 13:25	02/25/23 12:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/24/23 13:25	02/25/23 12:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/24/23 13:25	02/25/23 12:53	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/24/23 13:25	02/25/23 12:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/24/23 13:25	02/25/23 12:53	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/24/23 13:25	02/25/23 12:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*02/24/23 13:25*	*02/25/23 12:53*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*02/24/23 13:25*	*02/25/23 12:53*	*1*

Lab Sample ID: LCS 880-47173/1-A
Matrix: Solid
Analysis Batch: 47140

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 47173

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09770		mg/Kg		98	70 - 130
Toluene	0.100	0.09207		mg/Kg		92	70 - 130
Ethylbenzene	0.100	0.09391		mg/Kg		94	70 - 130
m-Xylene & p-Xylene	0.200	0.1960		mg/Kg		98	70 - 130
o-Xylene	0.100	0.09772		mg/Kg		98	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*

Lab Sample ID: LCSD 880-47173/2-A
Matrix: Solid
Analysis Batch: 47140

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 47173

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09578		mg/Kg		96	70 - 130	2	35

QC Sample Results

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2BS

Job ID: 890-4134-1
SDG: 226666

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

Lab Sample ID: LCSD 880-47173/2-A
Matrix: Solid
Analysis Batch: 47140

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 47173

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.09731		mg/Kg		97	70 - 130	6	35
Ethylbenzene			0.100	0.1003		mg/Kg		100	70 - 130	7	35
m-Xylene & p-Xylene			0.200	0.2119		mg/Kg		106	70 - 130	8	35
o-Xylene			0.100	0.1045		mg/Kg		104	70 - 130	7	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: 890-4139-A-1-G MS
Matrix: Solid
Analysis Batch: 47140

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 47173

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.100	0.08680		mg/Kg		87	70 - 130
Toluene	<0.00201	U	0.100	0.08736		mg/Kg		87	70 - 130
Ethylbenzene	<0.00201	U	0.100	0.09044		mg/Kg		90	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1925		mg/Kg		96	70 - 130
o-Xylene	<0.00201	U	0.100	0.09482		mg/Kg		95	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*

Lab Sample ID: 890-4139-A-1-H MSD
Matrix: Solid
Analysis Batch: 47140

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 47173

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0990	0.08760		mg/Kg		88	70 - 130	1	35
Toluene	<0.00201	U	0.0990	0.08701		mg/Kg		88	70 - 130	0	35
Ethylbenzene	<0.00201	U	0.0990	0.09104		mg/Kg		92	70 - 130	1	35
m-Xylene & p-Xylene	<0.00402	U	0.198	0.1962		mg/Kg		99	70 - 130	2	35
o-Xylene	<0.00201	U	0.0990	0.09638		mg/Kg		97	70 - 130	2	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*

Lab Sample ID: MB 880-47212/5-A
Matrix: Solid
Analysis Batch: 47274

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 47212

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/24/23 16:41	02/27/23 11:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/24/23 16:41	02/27/23 11:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/24/23 16:41	02/27/23 11:49	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/24/23 16:41	02/27/23 11:49	1

QC Sample Results

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2BS

Job ID: 890-4134-1
SDG: 226666

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

Lab Sample ID: MB 880-47212/5-A
Matrix: Solid
Analysis Batch: 47274

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 47212

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/24/23 16:41	02/27/23 11:49	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/24/23 16:41	02/27/23 11:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*02/24/23 16:41*	*02/27/23 11:49*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*02/24/23 16:41*	*02/27/23 11:49*	*1*

Lab Sample ID: MB 880-47303/5-A
Matrix: Solid
Analysis Batch: 47274

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 47303

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/27/23 11:21	02/27/23 23:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/27/23 11:21	02/27/23 23:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/27/23 11:21	02/27/23 23:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/27/23 11:21	02/27/23 23:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/27/23 11:21	02/27/23 23:25	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/27/23 11:21	02/27/23 23:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*02/27/23 11:21*	*02/27/23 23:25*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*02/27/23 11:21*	*02/27/23 23:25*	*1*

Lab Sample ID: LCS 880-47303/1-A
Matrix: Solid
Analysis Batch: 47274

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 47303

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1121		mg/Kg		112	70 - 130
Toluene	0.100	0.1100		mg/Kg		110	70 - 130
Ethylbenzene	0.100	0.1128		mg/Kg		113	70 - 130
m-Xylene & p-Xylene	0.200	0.2404		mg/Kg		120	70 - 130
o-Xylene	0.100	0.1177		mg/Kg		118	70 - 130

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

Lab Sample ID: LCSD 880-47303/2-A
Matrix: Solid
Analysis Batch: 47274

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 47303

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1174		mg/Kg		117	70 - 130	5	35
Toluene	0.100	0.1123		mg/Kg		112	70 - 130	2	35
Ethylbenzene	0.100	0.1157		mg/Kg		116	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2462		mg/Kg		123	70 - 130	2	35
o-Xylene	0.100	0.1196		mg/Kg		120	70 - 130	2	35

QC Sample Results

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2BS

Job ID: 890-4134-1
SDG: 226666

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: 880-25179-A-1-D MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 47274 — **Prep Batch: 47303**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00198	U	0.0998	0.08397		mg/Kg		84	70 - 130
Toluene	<0.00198	U	0.0998	0.07969		mg/Kg		80	70 - 130
Ethylbenzene	<0.00198	U	0.0998	0.08032		mg/Kg		80	70 - 130
m-Xylene & p-Xylene	<0.00396	U F1	0.200	0.1495		mg/Kg		74	70 - 130
o-Xylene	0.00250		0.0998	0.08719		mg/Kg		85	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: 880-25179-A-1-E MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 47274 — **Prep Batch: 47303**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.101	0.08857		mg/Kg		88	70 - 130	5	35
Toluene	<0.00198	U	0.101	0.08252		mg/Kg		82	70 - 130	3	35
Ethylbenzene	<0.00198	U	0.101	0.08099		mg/Kg		80	70 - 130	1	35
m-Xylene & p-Xylene	<0.00396	U F1	0.202	0.1392	F1	mg/Kg		68	70 - 130	7	35
o-Xylene	0.00250		0.101	0.08908		mg/Kg		86	70 - 130	2	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	113		70 - 130

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

Lab Sample ID: MB 880-47002/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 46992 — **Prep Batch: 47002**

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		02/23/23 09:10	02/23/23 08:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/23/23 09:10	02/23/23 08:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/23/23 09:10	02/23/23 08:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	02/23/23 09:10	02/23/23 08:36	1
o-Terphenyl	126		70 - 130	02/23/23 09:10	02/23/23 08:36	1

QC Sample Results

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2BS

Job ID: 890-4134-1
SDG: 226666

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

Lab Sample ID: LCS 880-47002/2-A
Matrix: Solid
Analysis Batch: 46992

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 47002

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	944.5		mg/Kg		94	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1060		mg/Kg		106	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*103*		*70 - 130*
o-Terphenyl	*113*		*70 - 130*

Lab Sample ID: LCSD 880-47002/3-A
Matrix: Solid
Analysis Batch: 46992

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 47002

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	915.3		mg/Kg		92	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	906.8		mg/Kg		91	70 - 130	16	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*101*		*70 - 130*
o-Terphenyl	*102*		*70 - 130*

Lab Sample ID: 890-4134-1 MS
Matrix: Solid
Analysis Batch: 46992

Client Sample ID: CS-1 (1)
Prep Type: Total/NA
Prep Batch: 47002

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1134		mg/Kg		110	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	999	910.9		mg/Kg		91	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*85*		*70 - 130*
o-Terphenyl	*82*		*70 - 130*

Lab Sample ID: 890-4134-1 MSD
Matrix: Solid
Analysis Batch: 46992

Client Sample ID: CS-1 (1)
Prep Type: Total/NA
Prep Batch: 47002

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	<49.9	U	999	1097		mg/Kg		107	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1021		mg/Kg		102	70 - 130	11	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*99*		*70 - 130*

QC Sample Results

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2BS

Job ID: 890-4134-1
SDG: 226666

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

Lab Sample ID: 890-4134-1 MSD
Matrix: Solid
Analysis Batch: 46992

Client Sample ID: CS-1 (1)
Prep Type: Total/NA
Prep Batch: 47002

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl	91		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-46846/1-A
Matrix: Solid
Analysis Batch: 47010

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			02/23/23 04:16	1

Lab Sample ID: LCS 880-46846/2-A
Matrix: Solid
Analysis Batch: 47010

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	246.8		mg/Kg		99	90 - 110		

Lab Sample ID: LCSD 880-46846/3-A
Matrix: Solid
Analysis Batch: 47010

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	248.0		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 890-4134-8 MS
Matrix: Solid
Analysis Batch: 47010

Client Sample ID: CS-8 (2)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	<4.97	U	249	252.1		mg/Kg		100	90 - 110		

Lab Sample ID: 890-4134-8 MSD
Matrix: Solid
Analysis Batch: 47010

Client Sample ID: CS-8 (2)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	<4.97	U	249	253.0		mg/Kg		100	90 - 110	0	20

QC Association Summary

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2BS

Job ID: 890-4134-1
SDG: 226666

GC VOA

Prep Batch: 47016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-47016/5-B	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 47140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4134-1	CS-1 (1)	Total/NA	Solid	8021B	47173
890-4134-2	CS-2 (1)	Total/NA	Solid	8021B	47173
890-4134-3	CS-3 (1)	Total/NA	Solid	8021B	47173
890-4134-4	CS-4 (1)	Total/NA	Solid	8021B	47173
890-4134-5	CS-5 (1)	Total/NA	Solid	8021B	47173
MB 880-47016/5-B	Method Blank	Total/NA	Solid	8021B	47016
MB 880-47173/5-A	Method Blank	Total/NA	Solid	8021B	47173
LCS 880-47173/1-A	Lab Control Sample	Total/NA	Solid	8021B	47173
LCSD 880-47173/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	47173
890-4139-A-1-G MS	Matrix Spike	Total/NA	Solid	8021B	47173
890-4139-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	47173

Prep Batch: 47173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4134-1	CS-1 (1)	Total/NA	Solid	5035	
890-4134-2	CS-2 (1)	Total/NA	Solid	5035	
890-4134-3	CS-3 (1)	Total/NA	Solid	5035	
890-4134-4	CS-4 (1)	Total/NA	Solid	5035	
890-4134-5	CS-5 (1)	Total/NA	Solid	5035	
MB 880-47173/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-47173/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-47173/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4139-A-1-G MS	Matrix Spike	Total/NA	Solid	5035	
890-4139-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 47212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-47212/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 47274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4134-6	CS-6 (1)	Total/NA	Solid	8021B	47303
890-4134-7	CS-7 (1)	Total/NA	Solid	8021B	47303
890-4134-8	CS-8 (2)	Total/NA	Solid	8021B	47303
890-4134-9	CS-9 (2)	Total/NA	Solid	8021B	47303
890-4134-10	CS-10 (3)	Total/NA	Solid	8021B	47303
890-4134-11	CS-11 (3)	Total/NA	Solid	8021B	47303
890-4134-12	SW-1 (0-1)	Total/NA	Solid	8021B	47303
890-4134-13	SW-2 (1-2)	Total/NA	Solid	8021B	47303
890-4134-14	SW-3 (2-3)	Total/NA	Solid	8021B	47303
890-4134-15	SW-4 (0-3)	Total/NA	Solid	8021B	47303
MB 880-47212/5-A	Method Blank	Total/NA	Solid	8021B	47212
MB 880-47303/5-A	Method Blank	Total/NA	Solid	8021B	47303
LCS 880-47303/1-A	Lab Control Sample	Total/NA	Solid	8021B	47303
LCSD 880-47303/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	47303
880-25179-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	47303
880-25179-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	47303

QC Association Summary

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2BS

Job ID: 890-4134-1
SDG: 226666

GC VOA

Prep Batch: 47303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4134-6	CS-6 (1)	Total/NA	Solid	5035	
890-4134-7	CS-7 (1)	Total/NA	Solid	5035	
890-4134-8	CS-8 (2)	Total/NA	Solid	5035	
890-4134-9	CS-9 (2)	Total/NA	Solid	5035	
890-4134-10	CS-10 (3)	Total/NA	Solid	5035	
890-4134-11	CS-11 (3)	Total/NA	Solid	5035	
890-4134-12	SW-1 (0-1)	Total/NA	Solid	5035	
890-4134-13	SW-2 (1-2)	Total/NA	Solid	5035	
890-4134-14	SW-3 (2-3)	Total/NA	Solid	5035	
890-4134-15	SW-4 (0-3)	Total/NA	Solid	5035	
MB 880-47303/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-47303/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-47303/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-25179-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
880-25179-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 47365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4134-1	CS-1 (1)	Total/NA	Solid	Total BTEX	
890-4134-2	CS-2 (1)	Total/NA	Solid	Total BTEX	
890-4134-3	CS-3 (1)	Total/NA	Solid	Total BTEX	
890-4134-4	CS-4 (1)	Total/NA	Solid	Total BTEX	
890-4134-5	CS-5 (1)	Total/NA	Solid	Total BTEX	
890-4134-6	CS-6 (1)	Total/NA	Solid	Total BTEX	
890-4134-7	CS-7 (1)	Total/NA	Solid	Total BTEX	
890-4134-8	CS-8 (2)	Total/NA	Solid	Total BTEX	
890-4134-9	CS-9 (2)	Total/NA	Solid	Total BTEX	
890-4134-10	CS-10 (3)	Total/NA	Solid	Total BTEX	
890-4134-11	CS-11 (3)	Total/NA	Solid	Total BTEX	
890-4134-12	SW-1 (0-1)	Total/NA	Solid	Total BTEX	
890-4134-13	SW-2 (1-2)	Total/NA	Solid	Total BTEX	
890-4134-14	SW-3 (2-3)	Total/NA	Solid	Total BTEX	
890-4134-15	SW-4 (0-3)	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 46992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4134-1	CS-1 (1)	Total/NA	Solid	8015B NM	47002
890-4134-2	CS-2 (1)	Total/NA	Solid	8015B NM	47002
890-4134-3	CS-3 (1)	Total/NA	Solid	8015B NM	47002
890-4134-4	CS-4 (1)	Total/NA	Solid	8015B NM	47002
890-4134-5	CS-5 (1)	Total/NA	Solid	8015B NM	47002
890-4134-6	CS-6 (1)	Total/NA	Solid	8015B NM	47002
890-4134-7	CS-7 (1)	Total/NA	Solid	8015B NM	47002
890-4134-8	CS-8 (2)	Total/NA	Solid	8015B NM	47002
890-4134-9	CS-9 (2)	Total/NA	Solid	8015B NM	47002
890-4134-10	CS-10 (3)	Total/NA	Solid	8015B NM	47002
890-4134-11	CS-11 (3)	Total/NA	Solid	8015B NM	47002
890-4134-12	SW-1 (0-1)	Total/NA	Solid	8015B NM	47002
890-4134-13	SW-2 (1-2)	Total/NA	Solid	8015B NM	47002

QC Association Summary

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2BS

Job ID: 890-4134-1
SDG: 226666

GC Semi VOA (Continued)

Analysis Batch: 46992 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4134-14	SW-3 (2-3)	Total/NA	Solid	8015B NM	47002
890-4134-15	SW-4 (0-3)	Total/NA	Solid	8015B NM	47002
MB 880-47002/1-A	Method Blank	Total/NA	Solid	8015B NM	47002
LCS 880-47002/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	47002
LCSD 880-47002/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	47002
890-4134-1 MS	CS-1 (1)	Total/NA	Solid	8015B NM	47002
890-4134-1 MSD	CS-1 (1)	Total/NA	Solid	8015B NM	47002

Prep Batch: 47002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4134-1	CS-1 (1)	Total/NA	Solid	8015NM Prep	
890-4134-2	CS-2 (1)	Total/NA	Solid	8015NM Prep	
890-4134-3	CS-3 (1)	Total/NA	Solid	8015NM Prep	
890-4134-4	CS-4 (1)	Total/NA	Solid	8015NM Prep	
890-4134-5	CS-5 (1)	Total/NA	Solid	8015NM Prep	
890-4134-6	CS-6 (1)	Total/NA	Solid	8015NM Prep	
890-4134-7	CS-7 (1)	Total/NA	Solid	8015NM Prep	
890-4134-8	CS-8 (2)	Total/NA	Solid	8015NM Prep	
890-4134-9	CS-9 (2)	Total/NA	Solid	8015NM Prep	
890-4134-10	CS-10 (3)	Total/NA	Solid	8015NM Prep	
890-4134-11	CS-11 (3)	Total/NA	Solid	8015NM Prep	
890-4134-12	SW-1 (0-1)	Total/NA	Solid	8015NM Prep	
890-4134-13	SW-2 (1-2)	Total/NA	Solid	8015NM Prep	
890-4134-14	SW-3 (2-3)	Total/NA	Solid	8015NM Prep	
890-4134-15	SW-4 (0-3)	Total/NA	Solid	8015NM Prep	
MB 880-47002/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-47002/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-47002/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4134-1 MS	CS-1 (1)	Total/NA	Solid	8015NM Prep	
890-4134-1 MSD	CS-1 (1)	Total/NA	Solid	8015NM Prep	

Analysis Batch: 47179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4134-1	CS-1 (1)	Total/NA	Solid	8015 NM	
890-4134-2	CS-2 (1)	Total/NA	Solid	8015 NM	
890-4134-3	CS-3 (1)	Total/NA	Solid	8015 NM	
890-4134-4	CS-4 (1)	Total/NA	Solid	8015 NM	
890-4134-5	CS-5 (1)	Total/NA	Solid	8015 NM	
890-4134-6	CS-6 (1)	Total/NA	Solid	8015 NM	
890-4134-7	CS-7 (1)	Total/NA	Solid	8015 NM	
890-4134-8	CS-8 (2)	Total/NA	Solid	8015 NM	
890-4134-9	CS-9 (2)	Total/NA	Solid	8015 NM	
890-4134-10	CS-10 (3)	Total/NA	Solid	8015 NM	
890-4134-11	CS-11 (3)	Total/NA	Solid	8015 NM	
890-4134-12	SW-1 (0-1)	Total/NA	Solid	8015 NM	
890-4134-13	SW-2 (1-2)	Total/NA	Solid	8015 NM	
890-4134-14	SW-3 (2-3)	Total/NA	Solid	8015 NM	
890-4134-15	SW-4 (0-3)	Total/NA	Solid	8015 NM	

QC Association Summary

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2BS

Job ID: 890-4134-1
SDG: 226666

HPLC/IC

Leach Batch: 46846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4134-1	CS-1 (1)	Soluble	Solid	DI Leach	
890-4134-2	CS-2 (1)	Soluble	Solid	DI Leach	
890-4134-3	CS-3 (1)	Soluble	Solid	DI Leach	
890-4134-4	CS-4 (1)	Soluble	Solid	DI Leach	
890-4134-5	CS-5 (1)	Soluble	Solid	DI Leach	
890-4134-6	CS-6 (1)	Soluble	Solid	DI Leach	
890-4134-7	CS-7 (1)	Soluble	Solid	DI Leach	
890-4134-8	CS-8 (2)	Soluble	Solid	DI Leach	
890-4134-9	CS-9 (2)	Soluble	Solid	DI Leach	
890-4134-10	CS-10 (3)	Soluble	Solid	DI Leach	
890-4134-11	CS-11 (3)	Soluble	Solid	DI Leach	
890-4134-12	SW-1 (0-1)	Soluble	Solid	DI Leach	
890-4134-13	SW-2 (1-2)	Soluble	Solid	DI Leach	
890-4134-14	SW-3 (2-3)	Soluble	Solid	DI Leach	
890-4134-15	SW-4 (0-3)	Soluble	Solid	DI Leach	
MB 880-46846/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-46846/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-46846/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4134-8 MS	CS-8 (2)	Soluble	Solid	DI Leach	
890-4134-8 MSD	CS-8 (2)	Soluble	Solid	DI Leach	

Analysis Batch: 47010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4134-1	CS-1 (1)	Soluble	Solid	300.0	46846
890-4134-2	CS-2 (1)	Soluble	Solid	300.0	46846
890-4134-3	CS-3 (1)	Soluble	Solid	300.0	46846
890-4134-4	CS-4 (1)	Soluble	Solid	300.0	46846
890-4134-5	CS-5 (1)	Soluble	Solid	300.0	46846
890-4134-6	CS-6 (1)	Soluble	Solid	300.0	46846
890-4134-7	CS-7 (1)	Soluble	Solid	300.0	46846
890-4134-8	CS-8 (2)	Soluble	Solid	300.0	46846
890-4134-9	CS-9 (2)	Soluble	Solid	300.0	46846
890-4134-10	CS-10 (3)	Soluble	Solid	300.0	46846
890-4134-11	CS-11 (3)	Soluble	Solid	300.0	46846
890-4134-12	SW-1 (0-1)	Soluble	Solid	300.0	46846
890-4134-13	SW-2 (1-2)	Soluble	Solid	300.0	46846
890-4134-14	SW-3 (2-3)	Soluble	Solid	300.0	46846
890-4134-15	SW-4 (0-3)	Soluble	Solid	300.0	46846
MB 880-46846/1-A	Method Blank	Soluble	Solid	300.0	46846
LCS 880-46846/2-A	Lab Control Sample	Soluble	Solid	300.0	46846
LCSD 880-46846/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	46846
890-4134-8 MS	CS-8 (2)	Soluble	Solid	300.0	46846
890-4134-8 MSD	CS-8 (2)	Soluble	Solid	300.0	46846

Lab Chronicle

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2BS

Job ID: 890-4134-1
SDG: 226666

Client Sample ID: CS-1 (1)
Date Collected: 02/17/23 00:00
Date Received: 02/17/23 12:42

Lab Sample ID: 890-4134-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	47173	02/24/23 13:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47140	02/25/23 15:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47365	02/27/23 16:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			47179	02/24/23 13:40	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47002	02/23/23 09:10	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46992	02/23/23 12:04	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	46846	02/21/23 13:14	KS	EET MID
Soluble	Analysis	300.0		1			47010	02/23/23 04:53	CH	EET MID

Client Sample ID: CS-2 (1)
Date Collected: 02/17/23 00:00
Date Received: 02/17/23 12:42

Lab Sample ID: 890-4134-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	47173	02/24/23 13:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47140	02/25/23 15:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47365	02/27/23 16:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			47179	02/24/23 13:40	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47002	02/23/23 09:10	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46992	02/23/23 12:48	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	46846	02/21/23 13:14	KS	EET MID
Soluble	Analysis	300.0		1			47010	02/23/23 04:58	CH	EET MID

Client Sample ID: CS-3 (1)
Date Collected: 02/17/23 00:00
Date Received: 02/17/23 12:42

Lab Sample ID: 890-4134-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	47173	02/24/23 13:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47140	02/25/23 15:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47365	02/27/23 16:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			47179	02/24/23 13:40	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47002	02/23/23 09:10	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46992	02/23/23 13:10	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	46846	02/21/23 13:14	KS	EET MID
Soluble	Analysis	300.0		1			47010	02/23/23 05:12	CH	EET MID

Client Sample ID: CS-4 (1)
Date Collected: 02/17/23 00:00
Date Received: 02/17/23 12:42

Lab Sample ID: 890-4134-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	47173	02/24/23 13:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47140	02/25/23 16:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47365	02/27/23 16:41	SM	EET MID

Lab Chronicle

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2BS

Job ID: 890-4134-1
SDG: 226666

Client Sample ID: CS-4 (1)
Date Collected: 02/17/23 00:00
Date Received: 02/17/23 12:42

Lab Sample ID: 890-4134-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			47179	02/24/23 13:40	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47002	02/23/23 09:10	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46992	02/23/23 13:32	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	46846	02/21/23 13:14	KS	EET MID
Soluble	Analysis	300.0		1			47010	02/23/23 05:17	CH	EET MID

Client Sample ID: CS-5 (1)
Date Collected: 02/17/23 00:00
Date Received: 02/17/23 12:42

Lab Sample ID: 890-4134-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	47173	02/24/23 13:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47140	02/25/23 16:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47365	02/27/23 16:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			47179	02/24/23 13:40	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47002	02/23/23 09:10	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46992	02/23/23 13:54	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	46846	02/21/23 13:14	KS	EET MID
Soluble	Analysis	300.0		1			47010	02/23/23 05:22	CH	EET MID

Client Sample ID: CS-6 (1)
Date Collected: 02/17/23 00:00
Date Received: 02/17/23 12:42

Lab Sample ID: 890-4134-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	47303	02/27/23 11:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47274	02/28/23 04:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47365	02/28/23 15:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			47179	02/24/23 13:40	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47002	02/23/23 09:10	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46992	02/23/23 14:16	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	46846	02/21/23 13:14	KS	EET MID
Soluble	Analysis	300.0		1			47010	02/23/23 05:26	CH	EET MID

Client Sample ID: CS-7 (1)
Date Collected: 02/17/23 00:00
Date Received: 02/17/23 12:42

Lab Sample ID: 890-4134-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	47303	02/27/23 11:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47274	02/28/23 05:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47365	02/28/23 15:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			47179	02/24/23 13:40	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	47002	02/23/23 09:10	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46992	02/23/23 14:38	AJ	EET MID

Lab Chronicle

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2BS

Job ID: 890-4134-1
SDG: 226666

Client Sample ID: CS-7 (1)
Date Collected: 02/17/23 00:00
Date Received: 02/17/23 12:42

Lab Sample ID: 890-4134-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	46846	02/21/23 13:14	KS	EET MID
Soluble	Analysis	300.0		1			47010	02/23/23 05:31	CH	EET MID

Client Sample ID: CS-8 (2)
Date Collected: 02/17/23 00:00
Date Received: 02/17/23 12:42

Lab Sample ID: 890-4134-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	47303	02/27/23 11:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47274	02/28/23 05:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47365	02/28/23 15:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			47179	02/24/23 13:40	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47002	02/23/23 09:10	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46992	02/23/23 15:00	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	46846	02/21/23 13:14	KS	EET MID
Soluble	Analysis	300.0		1			47010	02/23/23 05:35	CH	EET MID

Client Sample ID: CS-9 (2)
Date Collected: 02/17/23 00:00
Date Received: 02/17/23 12:42

Lab Sample ID: 890-4134-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	47303	02/27/23 11:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47274	02/28/23 05:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47365	02/28/23 15:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			47179	02/24/23 13:40	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47002	02/23/23 09:10	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46992	02/23/23 15:22	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	46846	02/21/23 13:14	KS	EET MID
Soluble	Analysis	300.0		1			47010	02/23/23 05:49	CH	EET MID

Client Sample ID: CS-10 (3)
Date Collected: 02/17/23 00:00
Date Received: 02/17/23 12:42

Lab Sample ID: 890-4134-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	47303	02/27/23 11:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47274	02/28/23 06:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47365	02/28/23 15:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			47179	02/24/23 13:40	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	47002	02/23/23 09:10	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46992	02/23/23 15:43	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	46846	02/21/23 13:14	KS	EET MID
Soluble	Analysis	300.0		1			47010	02/23/23 05:54	CH	EET MID

Lab Chronicle

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2BS

Job ID: 890-4134-1
SDG: 226666

Client Sample ID: CS-11 (3)
Date Collected: 02/17/23 00:00
Date Received: 02/17/23 12:42

Lab Sample ID: 890-4134-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	47303	02/27/23 11:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47274	02/28/23 06:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47365	02/28/23 15:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			47179	02/24/23 13:40	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	47002	02/23/23 09:10	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46992	02/23/23 16:28	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	46846	02/21/23 13:14	KS	EET MID
Soluble	Analysis	300.0		1			47010	02/23/23 06:08	CH	EET MID

Client Sample ID: SW-1 (0-1)
Date Collected: 02/17/23 00:00
Date Received: 02/17/23 12:42

Lab Sample ID: 890-4134-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	47303	02/27/23 11:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47274	02/28/23 06:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47365	02/28/23 15:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			47179	02/24/23 13:40	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	47002	02/23/23 09:10	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46992	02/23/23 16:50	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	46846	02/21/23 13:14	KS	EET MID
Soluble	Analysis	300.0		1			47010	02/23/23 06:13	CH	EET MID

Client Sample ID: SW-2 (1-2)
Date Collected: 02/17/23 00:00
Date Received: 02/17/23 12:42

Lab Sample ID: 890-4134-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	47303	02/27/23 11:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47274	02/28/23 07:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47365	02/28/23 15:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			47179	02/24/23 13:40	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47002	02/23/23 09:10	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46992	02/23/23 17:12	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	46846	02/21/23 13:14	KS	EET MID
Soluble	Analysis	300.0		1			47010	02/23/23 06:17	CH	EET MID

Client Sample ID: SW-3 (2-3)
Date Collected: 02/17/23 00:00
Date Received: 02/17/23 12:42

Lab Sample ID: 890-4134-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	47303	02/27/23 11:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47274	02/28/23 07:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47365	02/28/23 15:30	SM	EET MID

Lab Chronicle

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2BS

Job ID: 890-4134-1
SDG: 226666

Client Sample ID: SW-3 (2-3)
Date Collected: 02/17/23 00:00
Date Received: 02/17/23 12:42

Lab Sample ID: 890-4134-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			47179	02/24/23 13:40	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47002	02/23/23 09:10	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46992	02/23/23 17:34	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	46846	02/21/23 13:14	KS	EET MID
Soluble	Analysis	300.0		1			47010	02/23/23 06:22	CH	EET MID

Client Sample ID: SW-4 (0-3)
Date Collected: 02/17/23 00:00
Date Received: 02/17/23 12:42

Lab Sample ID: 890-4134-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	47303	02/27/23 11:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47274	02/28/23 08:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47365	02/28/23 15:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			47179	02/24/23 13:40	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47002	02/23/23 09:10	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46992	02/23/23 17:56	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	46846	02/21/23 13:14	KS	EET MID
Soluble	Analysis	300.0		1			47010	02/23/23 06:27	CH	EET MID

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

Accreditation/Certification Summary

Client: NT Global
Job ID: 890-4134-1
Project/Site: Buffalo 12-1 Federal 2BS
SDG: 226666

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

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
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2BS

Job ID: 890-4134-1
SDG: 226666

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

Protocol References:

ASTM = ASTM International
EPA = US Environmental Protection Agency
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2BS

Job ID: 890-4134-1
SDG: 226666

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4134-1	CS-1 (1)	Solid	02/17/23 00:00	02/17/23 12:42	1
890-4134-2	CS-2 (1)	Solid	02/17/23 00:00	02/17/23 12:42	1
890-4134-3	CS-3 (1)	Solid	02/17/23 00:00	02/17/23 12:42	1
890-4134-4	CS-4 (1)	Solid	02/17/23 00:00	02/17/23 12:42	1
890-4134-5	CS-5 (1)	Solid	02/17/23 00:00	02/17/23 12:42	1
890-4134-6	CS-6 (1)	Solid	02/17/23 00:00	02/17/23 12:42	1
890-4134-7	CS-7 (1)	Solid	02/17/23 00:00	02/17/23 12:42	1
890-4134-8	CS-8 (2)	Solid	02/17/23 00:00	02/17/23 12:42	2
890-4134-9	CS-9 (2)	Solid	02/17/23 00:00	02/17/23 12:42	2
890-4134-10	CS-10 (3)	Solid	02/17/23 00:00	02/17/23 12:42	3
890-4134-11	CS-11 (3)	Solid	02/17/23 00:00	02/17/23 12:42	3
890-4134-12	SW-1 (0-1)	Solid	02/17/23 00:00	02/17/23 12:42	0 - 1
890-4134-13	SW-2 (1-2)	Solid	02/17/23 00:00	02/17/23 12:42	1 - 2
890-4134-14	SW-3 (2-3)	Solid	02/17/23 00:00	02/17/23 12:42	2 - 3
890-4134-15	SW-4 (0-3)	Solid	02/17/23 00:00	02/17/23 12:42	0 - 3

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Chain of Custody

NTG ENVIRONMENTAL

Work Order No: _____

Page 1 of 2

Project Manager:	Becky Haskell	Bill to: (if different)	Chris Martin
Company Name:	NTG Environmental	Company Name:	Earthstone Operating LLC
Address:	701 Tradewinds Blvd.	Address:	600 N. Marienfeld, Suite 1000
City, State ZIP:	Midland TX, 79701	City, State ZIP:	Midland TX,79701
Phone:	432-766-1918	Email:	cmartin@earthstoneenergy.com

Work Order Comments

Program: UST/PS☐ PR☐ Brownfie☐s R☐ Supe☐

State of Project:

Reporting:Level ☐ Level I☐ PST/U☐ TR☐P Le☐el

Deliverables: EDD☐ ADaPT☐ Other:

Project Name:	Buffalo 12-1 Federal 2BS	Turn Around	
Project Number:	226666	☑ Routine ☐ Rush	
Project Location	Lea Co, NM	Due Date:	
Sampler's Name:	Kenny Han	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Received Intact:	Yes No	Thermometer ID:	IWM007
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	20.2
Total Containers:	15	Corrected Temperature:	20.0

ANALYSIS REQUEST

Preservative Codes

None: NO DI Water: H_2O

Cool: Cool MeOH: Me

HCL: HC HNO_3: HN

H_2S0_4: H_2 NaOH: Na

H_3PO_4: HP

$NaHSO_4$: NABIS

$Na_2S_2O_3$: $NaSO_3$

Zn Acetate+NaOH: Zn

NaOH+Ascorbic Acid: SAPC

890-4134 Chain of Custody

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500	Sample Comments
CS-1 (1)	2/17/2023		x		Comp	1		x	x	x	
CS-2 (1)	2/17/2023		x		Comp	1		x	x	x	
CS-3 (1)	2/17/2023		x		Comp	1		x	x	x	
CS-4 (1)	2/17/2023		x		Comp	1		x	x	x	
CS-5 (1)	2/17/2023		x		Comp	1		x	x	x	
CS-6 (1)	2/17/2023		x		Comp	1		x	x	x	
CS-7 (1)	2/17/2023		x		Comp	1		x	x	x	
CS-8 (2)	2/17/2023		x		Comp	1		x	x	x	
CS-9 (2)	2/17/2023		x		Comp	1		x	x	x	
CS-10 (3)	2/17/2023		x		Comp	1		x	x	x	

Additional Comments:

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		2-17-23 1248	2		
3			4		
5			6		

Revised Date 05012020 Rev 2020 1

Received by OCD: 3/18/2023 12:00:12 AM

Released to Imaging: 4/25/2023 11:41:33 AM

2/28/2023 (Rev. 1)

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Chain of Custody

NTG ENVIRONMENTAL

Work Order No: _____

Page 2 of 2

Project Manager:	Becky Haskell	Bill to: (if different)	Chris Martin
Company Name:	NTG Environmental	Company Name:	Earthstone Operating LLC
Address:	701 Tradewinds Blvd.	Address:	600 N. Marienfeld, Suite 1000
City, State ZIP:	Midland TX, 79701	City, State ZIP:	Midland TX,79701
Phone:	432-766-1918	Email:	cmartin@earthstoneenergy.com

Work Order Comments

Program: UST/PS☐ PR☐ Brownfie☐s R☐ Supe☐

State of Project:

Reporting:Level ☐ Level I☐ PST/U☐ TR☐P Le☐l

Deliverables: EDD☐ ADaPT☐ Other:

Project Name:	Buffalo 12-1 Federal 2BS	Turn Around		Pres. Code	
Project Number:	226666	☑ Routine	☐ Rush		
Project Location	Lea Co, NM	Due Date:			
Sampler's Name:	Kenny Han	TAT starts the day received by the lab, if received by 4:30pm			
PO #:					

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:	15	Corrected Temperature:		

ANALYSIS REQUEST

Preservative Codes

None: NO DI Water: H_2O

Cool: Cool MeOH: Me

HCL: HC HNO_3: HN

H_2S0_4: H_2 NaOH: Na

H_3PO_4: HP

$NaHSO_4$: NABIS

$Na_2S_2O_3$: $NaSO_3$

Zn Acetate+NaOH: Zn

NaOH+Ascorbic Acid: SAPC

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Parameters	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500	HOLD	Sample Comments
CS-11 (3)	2/17/2023		x		Comp	1		x	x	x		
SW-1 (0-1)	2/17/2023		x		Comp	1		x	x	x		
SW-2 (1-2)	2/17/2023		x		Comp	1		x	x	x		
SW-3 (2-3)	2/17/2023		x		Comp	1		x	x	x		
SW-4 (0-3)	2/17/2023		x		Comp	1		x	x	x		

Additional Comments:

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

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

Revised Date 05012020 Rev. 2020.1

Received by OCD: 3/18/2023 12:00:12 AM

Released to Imaging: 4/25/2023 11:41:33 AM

2/28/2023 (Rev. 1)

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Login Sample Receipt Checklist

Client: NT Global

Job Number: 890-4134-1
SDG Number: 226666

Login Number: 4134
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
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	

Login Sample Receipt Checklist

Client: NT Global

Job Number: 890-4134-1
SDG Number: 226666

Login Number: 4134
List Number: 2
Creator: Teel, Brianna

List Source: Eurofins Midland
List Creation: 02/21/23 08:18 AM

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Becky Haskell
NT Global
701 Tradewinds Blvd
Midland, Texas 79706

Generated 3/13/2023 5:12:47 PM

JOB DESCRIPTION

Buffalo 12-1 Federal 2BS
SDG NUMBER 226666

JOB NUMBER

890-4233-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 4/25/2023 11:41:35 AM

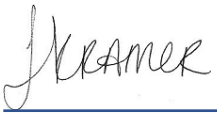
my EOL

Eurofins Carlsbad

Job Notes

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

Authorization



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Authorized for release by
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Client: NT Global
Project/Site: Buffalo 12-1 Federal 2BS

Laboratory Job ID: 890-4233-1
SDG: 226666

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Definitions/Glossary

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2BS

Job ID: 890-4233-1
SDG: 226666

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low 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: NT Global
Project/Site: Buffalo 12-1 Federal 2BS

Job ID: 890-4233-1
SDG: 226666

Job ID: 890-4233-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-4233-1

Receipt
The samples were received on 3/3/2023 11:12 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.2°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: SW-5 (0-2) (890-4233-1) and SW-6 (1-3.5) (890-4233-2).

GC VOA
Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-48442 and analytical batch 880-48426 was outside the control limits.

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

GC Semi VOA
Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-47868/2-A). Evidence of matrix interferences is not obvious.

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

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

Client Sample Results

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2BS

Job ID: 890-4233-1
SDG: 226666

Client Sample ID: SW-5 (0-2)

Lab Sample ID: 890-4233-1
Matrix: Solid
Date Collected: 03/03/23 00:00
Date Received: 03/03/23 11:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/13/23 08:00	03/13/23 13:44	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/13/23 08:00	03/13/23 13:44	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/13/23 08:00	03/13/23 13:44	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		03/13/23 08:00	03/13/23 13:44	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/13/23 08:00	03/13/23 13:44	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/13/23 08:00	03/13/23 13:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*03/13/23 08:00*	*03/13/23 13:44*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*03/13/23 08:00*	*03/13/23 13:44*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			03/13/23 17:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/07/23 13:47	1

Method: SW846 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		03/06/23 08:24	03/06/23 12:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/06/23 08:24	03/06/23 12:37	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/23 08:24	03/06/23 12:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*126*		*70 - 130*	*03/06/23 08:24*	*03/06/23 12:37*	*1*
o-Terphenyl	*131*	*S1+*	*70 - 130*	*03/06/23 08:24*	*03/06/23 12:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**65.2**		5.01		mg/Kg			03/06/23 12:09	1

Client Sample ID: SW-6 (1-3.5)

Lab Sample ID: 890-4233-2
Matrix: Solid
Date Collected: 03/03/23 00:00
Date Received: 03/03/23 11:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/13/23 08:00	03/13/23 14:11	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/13/23 08:00	03/13/23 14:11	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/13/23 08:00	03/13/23 14:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/13/23 08:00	03/13/23 14:11	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/13/23 08:00	03/13/23 14:11	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/13/23 08:00	03/13/23 14:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*03/13/23 08:00*	*03/13/23 14:11*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*03/13/23 08:00*	*03/13/23 14:11*	*1*

Client Sample Results

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2BS

Job ID: 890-4233-1
SDG: 226666

Client Sample ID: SW-6 (1-3.5)

Date Collected: 03/03/23 00:00
Date Received: 03/03/23 11:12

Lab Sample ID: 890-4233-2

Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/13/23 17:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/07/23 13:47	1

Method: SW846 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		03/06/23 08:24	03/06/23 12:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/06/23 08:24	03/06/23 12:59	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/06/23 08:24	03/06/23 12:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*03/06/23 08:24*	*03/06/23 12:59*	*1*
o-Terphenyl	*117*		*70 - 130*	*03/06/23 08:24*	*03/06/23 12:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**124**		5.00		mg/Kg			03/06/23 12:24	1

Surrogate Summary

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2BS

Job ID: 890-4233-1
SDG: 226666

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)										
880-25394-A-3-F MS	Matrix Spike	91	108										
880-25394-A-3-G MSD	Matrix Spike Duplicate	97	103										
890-4233-1	SW-5 (0-2)	104	95										
890-4233-2	SW-6 (1-3.5)	104	98										
LCS 880-48442/1-A	Lab Control Sample	90	108										
LCSD 880-48442/2-A	Lab Control Sample Dup	92	105										
MB 880-48442/5-A	Method Blank	59 S1-	91										

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)										
880-25357-A-22-C MS	Matrix Spike	115	111										
880-25357-A-22-D MSD	Matrix Spike Duplicate	105	106										
890-4233-1	SW-5 (0-2)	126	131 S1+										
890-4233-2	SW-6 (1-3.5)	108	117										
LCS 880-47868/2-A	Lab Control Sample	126	135 S1+										
LCSD 880-47868/3-A	Lab Control Sample Dup	114	119										
MB 880-47868/1-A	Method Blank	110	125										

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2BS

Job ID: 890-4233-1
SDG: 226666

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-48442/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 48426 — **Prep Batch: 48442**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/13/23 08:00	03/13/23 11:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/13/23 08:00	03/13/23 11:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/13/23 08:00	03/13/23 11:59	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/13/23 08:00	03/13/23 11:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/13/23 08:00	03/13/23 11:59	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/13/23 08:00	03/13/23 11:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*59*	*S1-*	*70 - 130*	*03/13/23 08:00*	*03/13/23 11:59*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*03/13/23 08:00*	*03/13/23 11:59*	*1*

Lab Sample ID: LCS 880-48442/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 48426 — **Prep Batch: 48442**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1007		mg/Kg		101	70 - 130		
Toluene			0.100	0.08959		mg/Kg		90	70 - 130		
Ethylbenzene			0.100	0.09671		mg/Kg		97	70 - 130		
m-Xylene & p-Xylene			0.200	0.2023		mg/Kg		101	70 - 130		
o-Xylene			0.100	0.09558		mg/Kg		96	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: LCSD 880-48442/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 48426 — **Prep Batch: 48442**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1032		mg/Kg		103	70 - 130	2	35
Toluene			0.100	0.08730		mg/Kg		87	70 - 130	3	35
Ethylbenzene			0.100	0.09347		mg/Kg		93	70 - 130	3	35
m-Xylene & p-Xylene			0.200	0.1962		mg/Kg		98	70 - 130	3	35
o-Xylene			0.100	0.09363		mg/Kg		94	70 - 130	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: 880-25394-A-3-F MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 48426 — **Prep Batch: 48442**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.100	0.1049		mg/Kg		105	70 - 130		
Toluene	<0.00200	U	0.100	0.09636		mg/Kg		96	70 - 130		

QC Sample Results

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2BS

Job ID: 890-4233-1
SDG: 226666

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

Lab Sample ID: 880-25394-A-3-F MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 48426 — **Prep Batch: 48442**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.1053		mg/Kg		105	70 - 130
m-Xylene & p-Xylene	<0.00400	U	0.201	0.2196		mg/Kg		108	70 - 130
o-Xylene	<0.00200	U	0.100	0.1024		mg/Kg		102	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: 880-25394-A-3-G MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 48426 — **Prep Batch: 48442**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0996	0.1009		mg/Kg		101	70 - 130	4	35
Toluene	<0.00200	U	0.0996	0.09566		mg/Kg		96	70 - 130	1	35
Ethylbenzene	<0.00200	U	0.0996	0.1025		mg/Kg		103	70 - 130	3	35
m-Xylene & p-Xylene	<0.00400	U	0.199	0.2150		mg/Kg		107	70 - 130	2	35
o-Xylene	<0.00200	U	0.0996	0.1025		mg/Kg		103	70 - 130	0	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

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

Lab Sample ID: MB 880-47868/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 47856 — **Prep Batch: 47868**

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		03/06/23 08:24	03/06/23 08:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/06/23 08:24	03/06/23 08:33	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/23 08:24	03/06/23 08:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*03/06/23 08:24*	*03/06/23 08:33*	*1*
o-Terphenyl	*125*		*70 - 130*	*03/06/23 08:24*	*03/06/23 08:33*	*1*

Lab Sample ID: LCS 880-47868/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 47856 — **Prep Batch: 47868**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1067		mg/Kg		107	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1020		mg/Kg		102	70 - 130

QC Sample Results

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2BS

Job ID: 890-4233-1
SDG: 226666

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

Lab Sample ID: LCS 880-47868/2-A
Matrix: Solid
Analysis Batch: 47856

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 47868

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	126		70 - 130
o-Terphenyl	135	S1+	70 - 130

Lab Sample ID: LCSD 880-47868/3-A
Matrix: Solid
Analysis Batch: 47856

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 47868

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	961.3		mg/Kg		96	70 - 130	10	20
Diesel Range Organics (Over C10-C28)			1000	912.4		mg/Kg		91	70 - 130	11	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	119		70 - 130

Lab Sample ID: 880-25357-A-22-C MS
Matrix: Solid
Analysis Batch: 47856

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 47868

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	999.6		mg/Kg		97	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	998	1099		mg/Kg		110	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	115		70 - 130
o-Terphenyl	111		70 - 130

Lab Sample ID: 880-25357-A-22-D MSD
Matrix: Solid
Analysis Batch: 47856

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 47868

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	<49.9	U	999	1079		mg/Kg		105	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1050		mg/Kg		105	70 - 130	5	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	106		70 - 130

QC Sample Results

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2BS

Job ID: 890-4233-1
SDG: 226666

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-47866/1-A
Matrix: Solid
Analysis Batch: 47934

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			03/06/23 10:53	1

Lab Sample ID: LCS 880-47866/2-A
Matrix: Solid
Analysis Batch: 47934

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	265.3		mg/Kg		106	90 - 110		

Lab Sample ID: LCSD 880-47866/3-A
Matrix: Solid
Analysis Batch: 47934

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	265.3		mg/Kg		106	90 - 110	0	20

Lab Sample ID: 890-4233-1 MS
Matrix: Solid
Analysis Batch: 47934

Client Sample ID: SW-5 (0-2)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	65.2		251	332.7		mg/Kg		107	90 - 110		

Lab Sample ID: 890-4233-1 MSD
Matrix: Solid
Analysis Batch: 47934

Client Sample ID: SW-5 (0-2)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	65.2		251	333.6		mg/Kg		107	90 - 110	0	20

QC Association Summary

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2BS

Job ID: 890-4233-1
SDG: 226666

GC VOA

Analysis Batch: 48426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4233-1	SW-5 (0-2)	Total/NA	Solid	8021B	48442
890-4233-2	SW-6 (1-3.5)	Total/NA	Solid	8021B	48442
MB 880-48442/5-A	Method Blank	Total/NA	Solid	8021B	48442
LCS 880-48442/1-A	Lab Control Sample	Total/NA	Solid	8021B	48442
LCSD 880-48442/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	48442
880-25394-A-3-F MS	Matrix Spike	Total/NA	Solid	8021B	48442
880-25394-A-3-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	48442

Prep Batch: 48442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4233-1	SW-5 (0-2)	Total/NA	Solid	5035	
890-4233-2	SW-6 (1-3.5)	Total/NA	Solid	5035	
MB 880-48442/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-48442/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-48442/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-25394-A-3-F MS	Matrix Spike	Total/NA	Solid	5035	
880-25394-A-3-G MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 48539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4233-1	SW-5 (0-2)	Total/NA	Solid	Total BTEX	
890-4233-2	SW-6 (1-3.5)	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 47856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4233-1	SW-5 (0-2)	Total/NA	Solid	8015B NM	47868
890-4233-2	SW-6 (1-3.5)	Total/NA	Solid	8015B NM	47868
MB 880-47868/1-A	Method Blank	Total/NA	Solid	8015B NM	47868
LCS 880-47868/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	47868
LCSD 880-47868/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	47868
880-25357-A-22-C MS	Matrix Spike	Total/NA	Solid	8015B NM	47868
880-25357-A-22-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	47868

Prep Batch: 47868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4233-1	SW-5 (0-2)	Total/NA	Solid	8015NM Prep	
890-4233-2	SW-6 (1-3.5)	Total/NA	Solid	8015NM Prep	
MB 880-47868/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-47868/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-47868/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-25357-A-22-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-25357-A-22-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 48046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4233-1	SW-5 (0-2)	Total/NA	Solid	8015 NM	
890-4233-2	SW-6 (1-3.5)	Total/NA	Solid	8015 NM	

QC Association Summary

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2BS

Job ID: 890-4233-1
SDG: 226666

HPLC/IC

Leach Batch: 47866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4233-1	SW-5 (0-2)	Soluble	Solid	DI Leach	
890-4233-2	SW-6 (1-3.5)	Soluble	Solid	DI Leach	
MB 880-47866/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-47866/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-47866/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4233-1 MS	SW-5 (0-2)	Soluble	Solid	DI Leach	
890-4233-1 MSD	SW-5 (0-2)	Soluble	Solid	DI Leach	

Analysis Batch: 47934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4233-1	SW-5 (0-2)	Soluble	Solid	300.0	47866
890-4233-2	SW-6 (1-3.5)	Soluble	Solid	300.0	47866
MB 880-47866/1-A	Method Blank	Soluble	Solid	300.0	47866
LCS 880-47866/2-A	Lab Control Sample	Soluble	Solid	300.0	47866
LCSD 880-47866/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	47866
890-4233-1 MS	SW-5 (0-2)	Soluble	Solid	300.0	47866
890-4233-1 MSD	SW-5 (0-2)	Soluble	Solid	300.0	47866

Lab Chronicle

Client: NT Global
Job ID: 890-4233-1
Project/Site: Buffalo 12-1 Federal 2BS
SDG: 226666

Client Sample ID: SW-5 (0-2)
Lab Sample ID: 890-4233-1
Date Collected: 03/03/23 00:00
Matrix: Solid
Date Received: 03/03/23 11:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	48442	03/13/23 08:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48426	03/13/23 13:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48539	03/13/23 17:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			48046	03/07/23 13:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10 g	10 mL	47868	03/06/23 08:24	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47856	03/06/23 12:37	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	47866	03/06/23 08:12	CH	EET MID
Soluble	Analysis	300.0		1			47934	03/06/23 12:09	CH	EET MID

Client Sample ID: SW-6 (1-3.5)
Lab Sample ID: 890-4233-2
Date Collected: 03/03/23 00:00
Matrix: Solid
Date Received: 03/03/23 11:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	48442	03/13/23 08:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48426	03/13/23 14:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48539	03/13/23 17:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			48046	03/07/23 13:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	47868	03/06/23 08:24	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47856	03/06/23 12:59	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	47866	03/06/23 08:12	CH	EET MID
Soluble	Analysis	300.0		1			47934	03/06/23 12:24	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: NT Global
Job ID: 890-4233-1
Project/Site: Buffalo 12-1 Federal 2BS
SDG: 226666

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

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
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2BS

Job ID: 890-4233-1
SDG: 226666

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: NT Global
Project/Site: Buffalo 12-1 Federal 2BS

Job ID: 890-4233-1
SDG: 226666

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-4233-1	SW-5 (0-2)	Solid	03/03/23 00:00	03/03/23 11:12
890-4233-2	SW-6 (1-3.5)	Solid	03/03/23 00:00	03/03/23 11:12

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Chain of Custody

NTG ENVIRONMENTAL

Work Order No: _____

3/13/2023

Page 1 of 1

Project Manager:	Becky Haskell	Bill to: (if different)	Chris Martin
Company Name:	NTG Environmental	Company Name:	Earthstone Operating LLC
Address:	701 Tradewinds Blvd.	Address:	600 N. Marienfeld, Suite 1000
City, State ZIP:	Midland TX, 79701	City, State ZIP:	Midland TX,79701
Phone:	432-766-1918	Email:	cmartin@earthstoneenergy.com

Work Order Comments

Program: UST/PS☐ PR☐ Brownfie☐s R☐ Supe☐

State of Project:

Reporting:Level ☐ Level I☐ PST/U☐ TR☐ Le☐el

Deliverables: EDD☐ ADaPT☐ Other:

Project Name:	Buffalo 12-1 Federal 2BS	Turn Around	
Project Number:	226666	☐ Routine ☑ Rush	
Project Location	Lea Co, NM	Due Date:	24 ~~48~~ hr KH 3/3/23
Sampler's Name:	Kenny Han	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Received Intact:	Yes No	Thermometer ID:	TNMC07
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	4.4
Total Containers:	2	Corrected Temperature:	4.2

ANALYSIS REQUEST

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500	HOLD
SW-5 (0-2)	3/3/2023		x		Comp	1		x	x	x	
SW-6 (1-3.5)	3/3/2023		x		Comp	1		x	x	x	

Parameters

890-4233 Chain of Custody

Preservative Codes

None: NO	DI Water: H_2O
Cool: Cool	MeOH: Me
HCL: HC	HNO_3: HN
H_2S0_4: H_2	NaOH: Na
H_3PO_4: HP	
$NaHSO_4$: NABIS	
$Na_2S_2O_3$: $NaSO_3$	
Zn Acetate+NaOH: Zn	
NaOH+Ascorbic Acid: SAPC	

Sample Comments

Additional Comments:

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Kenny Han	Clue Cup	3.3.23 1102	2		
3			4		
5			6		

Revised Date 05012020 Rev 2020 1

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Received by OCD: 3/18/2023 12:00:12 AM

Released to Imaging: 4/25/2023 11:41:33 AM

Login Sample Receipt Checklist

Client: NT Global

Job Number: 890-4233-1
SDG Number: 226666

Login Number: 4233
List Number: 1
Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
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	

Login Sample Receipt Checklist

Client: NT Global

Job Number: 890-4233-1
SDG Number: 226666

Login Number: 4233
List Number: 2
Creator: Kramer, Jessica

List Source: Eurofins Midland
List Creation: 03/06/23 12:04 PM

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

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 198397

CONDITIONS

Operator: Earthstone Operating, LLC 1400 Woodloch Forest; Ste 300 The Woodlands, TX 77380	OGRID: 331165
	Action Number: 198397
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	4/25/2023